CPET

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EXCELLENT POWER SUPPLY BURN-IN TESTING EQUIPMENT MANUFACTURER

YOUR FAITHFULLY INTELLIGENT AUTOMATION EQUIPMENT PARTNER

SHENZHEN CPET ELECTRONICS CO.,LTD

 http://www.szcpet.com

 400-856-5100

Building D, Shifeng Science & Technology Park, Loucun Community,
XinHu Street, Guangming District, Shenzhen, China

TEL: 0086-0755-23427658 23429958 23429158
FAX: 0086-0755-23429958-808
E-mail:sales@szcpet.com

EXCELLENT POWER ELECTRONICS
INTELLIGENT MANUFACTURING EQUIPMENT MANUFACTURER

CPET

www.szcpet.com

BRAND ANNOTATION

Creative

Never stop, Innovation & creation is the foundation of our survival and development

Power

Continuous, Manufacture perfect products with prolonged power

Excellent

Create excellence with firm perseverance and punctilious spirit

Team

Create eternal value for clients by collaboration

COMPANY PROFILE

Established

Founded in 2010 in Shenzhen, focusing on power electronic products c test, in 2019 expanded ATE and automation. The company has more than 200 employees and 80 R&D engineering team members

Product

Power electronic products intelligent manufacturing production line: programmable electronic load, programmable feedback load, programmable power module, programmable two-way source load, burn-in test system, automatic test system (ATE), automated test production line

Manufacture

The monthly capacity of burn-in test system and ATE equipment is 200 sets +, the monthly capacity of automated test production line is 2 sets +, and the monthly capacity of unit modules is 10,000 sets

Quality

Automation of key processes SMT/AI/ICT/Laser Mark/ATE/Hi-pot/Burn-in,The test department inspects the R&D quality throughout the whole process, and the quality control department inspects the process quality throughout the whole process

Design

The average working experience of the core members of the R&D team is more than 12 years, and the responsibility is to make the products more intelligent, more efficient and more reliable

Technology

Pioneered eight industry technology, leading the industry progress, independent intellectual property patents, more than 50, some products to apply for CE certification

Serve

Professional sales and service team 24 hours a day service, the shortest service response in 2hrs and

Client

Thanks to all the customers OEM (PHILIPS, SAMSUNG, PANSONIC...), ODM (BYD, LITEON, Flextronic...) EMS (FOXCONN, SALCOMPA, TENPAO...), Local Brand (HuaWei, MOSO, OPPLE, TCL, CVTE, KONKA, Hisense)) and domestic and foreign agents, and are exported to Europe, America, India, Indonesia, South Korea, Japan, Algeria, etc. through Alibaba, GILE and Hi-Tech Fair, etc., more than 3000 domestic and foreign customers

ENTERPRISE CULTURE

COMPANY MISSION

It makes clients choosing our products experience the value of technical innovation

ENTERPRISE VISION

Become top-notch supplier of burn-in test equipment all over the world

CORE VALUE

Customer first、Embracing changes、Passionate、Innovating、Cooperating、Sharing

OUR COMMITMENT

Provide rapid and comprehensive service and performance-excellent products
Become global leader in technology and have industrial well-known brands

OUR CUSTOMERS
(OVER 3000 CUSTOMERS WORLDWIDE, IN NO PARTICULAR ORDER)

BYD	HUAWEI	LITEON	华宝新能	INVENTRONICS 英飞特电子
UGREEN 绿联	BULL公牛	欧陆通 HONOTO	OPPLE 欧普照明	三雄·极光照明
Anker Innovations	PowerOak	SAMSUNG	TCL	SOSEN
TOPBAND 拓邦	MEGMEET	Cultraview 金锐显	Great Wall 长城	KONKA 康佳
MI	SUNGROW 阳光电源	ADAYO 华阳光电	CHANGHONG长虹	Skyworth 创维
NVC 雷士照明	ECU	AMTC 股票代码 002429	HAVELLS	技研新阳有限公司
MOSO	TenPao	UE	TTI	VIDEOTEX
SUPLET®	flex LIVE SMARTER	CEC 中国电子	CLICK	FOXCONN®
CASIC 航天长峰	Hisense	WALTON	TP-LINK	EUCHIPS
Panasonic	BAJAJ Bajaj Electricals Ltd. Inspiring Trust	JABIL	Jaquar	EAGLERISE
MOONS' moving in better ways	盈聚集团 Yingju Group	奥海集团 AOHAI GROUP	中国民航大学	清华大学
HKC	JQH	Gospower	Enpower 英博尔	CVTE
ONIDA OWNER'S PRIDE	PHILIPS	Salcomp	Condor	Lighting Technologies

OUALIFICATION CERTIFICATE

State-level high-tech enterprises	High-tech enterprises in Shenzhen	Shenzhen software industry member unit	Songsheng power supply Strategic cooperative supplier

Excellent software enterprise in Shenzhen	Shenzhen City Science and technology annual conference Excellent paper	Graduate student at Xi'an Jiaotong University Co-op instructors outside the school	Guangdong Institute of Petrochemical Engineering Practice training base

Member of China Power Supply Society	Innovative small, medium and micro enterprises in Shenzhen Certificate of record confirmation	ISO 9001 Quality certification certificate	ISO 14001 Quality Certification certificate

CE certificate	CE certificate	CE certificate	CE certificate

Computer software copyright Certificate of registration	Patent number: 201510796736.9	Patent number: 201510055546.1	Patent number:201510026999.1

Patent number:201510039417.3	Patent number:201510741084.9	Patent number:201510027031.0	Patent number: 201510055536.8

Patent number: 201420098157.9	Patent number: 201420098157.10	Patent number: 201420098157.7	Patent number: 201320098157.5

Patent number: 201320098157.03	Patent number: 201320098157.7	Patent number: 201330534591.7	Patent number: 201320098157.3

DEVELOPMENT PATH

2012
Mass production of the first programmable electronic load with LED mode

2015
Became Shenzhen Innovative Medium & Micro-sized Enterprise

2017
Set up Intelligent manufacturing innovation park

2019
The first bidirectional source load module was mass-produced and applied to energy storage, new energy, electric vehicle and other fields in batches

2021
The total number of cooperative customers exceeds 3000+
The third generation of programmable energy saving feedback module is in full mass production, more efficient and reliable

2023
Wonderful continue

2011
Obtained more than 10 patents for inventionand patents for utility models

2014
Became Shenzhen High-tech Enterprise
Became one member of China Power Supply Society

2016
The first programmable energy-saving feedback module was mass-produced
The first programmable DC power supply was mass-produced

2018
Sales of energy-saving burn-in equipment exceeded 10,000 units
The first automatic test system (ATE) was mass-produced
The first set of automatic burn-in test system was mass-produced

2020
Obtained ISO9001 quality management system certification
Obtained ISO14001 environmental management system certification

2022
Signed industry-university-research agreements with Xi 'an Jiaotong University and Guangdong Normal University of Technology to create value through innovation

2010
Set up CPET at Shenzhen

2013
Became Shenzhen Double Soft Enterprise
Registered capital amount increased to 3 million

2010   2012   2016   2018   2020   2022   2023

CONTENT

01 AUTOMATIC BURN-IN TEST EQUIPMENT

Automatic Burn-in test equipment series

Scope of application

- LED power supply, new energy OBC, PC power supply, server power supply, TV power supply, photovoltaic inverter, high-power industrial power supply, etc.

Outstanding functions

1. Automatic operation mode, per hour capacity more than 1500 PCS
2. Automatic operation mode,more stable and reliable
3. Automatic high pressure test, ATE test, burn-in test
4. Unit design, specific configuration can according to customer needs
5. Save labor, reduce labor intensity
6. Integration testing, no need to turn over, improve degree of automation
7. Multiple test station, save space, real-time monitoring, has the functions such as abnormal alarm stop
8. Burn-in test interface independent, for your follow-up maintenance,keep quality and save cost
9. Load recovery efficiency up to 80%, reduce load electricity heat, reduce the electrical waste
10. Commonality use, DC products with or without wire are applicable, the operation is simple and convenient,Using a large number of manipulator or transfer machine to replace artificial, high efficiency, for the expensive department, promote efficiency of up to 50%

#	Category	Parameter	Value
1	Basic information Model	Equipment Model	CPET-AT3888S
		Units Per Hour(UPH)	1600PCS/H or 56PCS/H
		Product Power	5W~65W/CH or 1000W~3000W/CH
		Equipment Size	L=13000MM,W=2000MM,H=2700MM
		Equipment Weight	Around 3000kg
2	Related Information of Burn-in line	Burn-in Room Capacity	3888PCS or 280PCS
		Burn-in Time	2H
		Burn-in Ply Number	9 floors
		Transfer mode	Similar with the burn-in mode of tridimensional storage/manipulator transportation/connector contact
3	Burn-in Line Temperature Control system	Cooling Circulation Mode	Forced air cooling:fan+frequency convertwe+air duct
		Control Scope and Precision	The temperature control scope:adjustable from room temperature to 60°C.The control precision is ±5°C
		Temperature Rise Rate	Able to rise to more than 45°C in 20 minutes
4	Burn-in Line Electronic Control system	Product and Load Properties	Optional
		Load Properties	Optional
		Burn-in Voltage Input	Support up to 6 voltages
		Protection and Alarm	control power supply independently and added with protection and equpment including overheating and overload protection,earth leak-
		Hardware Demand Description	Independent computer host, display burn-instate, monitor output should be voltage, current,power and soon
		Software Monitor Demand	Compile different Burn-in programs according to different products, realize voltage switching, impact, switching cycle, current setting, tem- perature setting and other parameters
		Burn-in Management Demand	The OK and NG judgment monitoring interface can directly understand that the data can be saved according to the required data format (TXT, EXCEL), which is convenient for query and download
5	Test Station Related Information	Test Station Types	Install the product + electrified initial test + high voltage +ATE+ Burn-in +ATE+ take the product, automatic test Burn-in system, Unit combina-
		Test Mode	Optional
		Test Data Processing	Optional
		Test Instruments	Optional
		Connection Mod	Optional
6	Burn-in & Test Jig	Jig Size	L500*W300*H30MM3 18 bits per vehicle or customized
		Interface Mode	AC: Universal socket; DC: USB or conventional DC female socket or customized
		The Commmon Usage	Shared by burn-in and test
		Weright	1.5KG
7	Main Electric Control System	Protection Equipment	Possessing independent and segmentation main switches.Having independent ground protection and electricity leakage protection
		Power Demands	According to the actual planning
		Air source requirements	5-8KGF/CM3

Semi-automatic Burn-in test equipment series

Scope of application

- LED power supply, new energy OBC, PC power supply, server power supply, TV power supply, photovoltaic inverter, high-power industrial power supply, etc.

Outstanding functions

1. Automatic operation mode, per hour capacity more than 1500 PCS
2. Automatic operation mode, more stable and reliable
3. Automatic high pressure test, ATE test, burn-in test
4. Unit design, specific configuration can according to customer needs
5. Save labor, reduce labor intensity
6. Integration testing, no need to turn over, improve degree of automation
7. Multiple test station, save space, real-time monitoring, has the functions such as abnormal alarm stop
8. Burn-in test interface independent, for your follow-up maintenance, keep quality and save cost
9. Load recovery efficiency up to 80%, reduce load electricity heat, reduce the electrical waste
10. Commonality use, DC products with or without wire are applicable, the operation is simple and convenient
11. Using a large number of manipulator or transfer machine to replace artificial, high efficiency, for the expensive department, promote efficiency of up to 50%
12. The ID number is used to track the test and aging process of the product in real time, which can help users find and find problems faster

Performance parameters

1	Basic information Model	Equipment Model	CPET-AT3200
		Units Per Hour(UPH)	1600PCS/H
		Product Power	5W~40W
		Equipment Size	L=5400MM,W=570MM,H=1150MM
		Equipment Weight	Around 550kg
2	Related Information of Burn-in line	Burn-in Room Capacity	Single cabinet 512PCS, the overall equipment can be freely assembled
		Burn-in Time	2H
		Burn-in Ply Number	8 floors
		Transfer mode	Similar with the burn-in mode of tridimensional storage/manipulator transportation/connector contact
3	Burn-in Line Temperature Control system	Cooling Circulation Mode	Forced air cooling:fan+frequency convertwe+air duct
		Control Scope and Precision	The temperature control scope:adjustable from room temperature to 60°C.The control precision is ±5°C
		Temperature Rise Rate	Able to rise to more than 45°C in 20 minutes
4	Burn-in Line Electronic Control system	Product and Load Properties	Optional
		Load Properties	Optional
		Burn-in Voltage Input	Support up to 6 voltages
		Protection and Alarm	control power supply independently and added with protection and equpment including overheating and overload protection,earth leak-
		Hardware Demand Description	Independent computer host, display burn-instate, monitor output should be voltage, current,power and soon
		Software Monitor Demand	Compile different Burn-in programs according to different products, realize voltage switching, impact, switching cycle, current setting, temperature setting and other parameters
		Burn-in Management Demand	The OK and NG judgment monitoring interface can directly understand that the data can be saved according to the required data format (TXT, EXCEL), which is convenient for query and download
5	Test Station Related Information	Test Station Types	Install the product + electrified initial test + high voltage +ATE+ Burn-in +ATE+ take the product, automatic test Burn-in system, is a unit combination of the system
		Test Mode	Optional
		Test Data Processing	Optional
		Test Instruments	Optional
		Connection Mod	Optional
6	Burn-in & Test Jig	Jig Size	L556*W320*H70(mm),Each vehicle gets 16 seats
		Interface Mode	AC：universal socket;DC:USB or conventional DC female seat
		The Commmon Usage	Shared by burn-in and test
		Weright	1.5KG
7	Main Electric Control System	Protection Equipment	Possessing independent and segmentation main switches.Having independent ground protection and electricity leakage protection
		Power Demands	According to the actual planning
		Air source requirements	5-8KGF/CM3

02

INTELLIGENT BURN-IN TESTING EQUIPMENT

Intelligent burn-in test equipment

CPET has been focusing on the field of power electronic products burn-in testing for more than 10 years, and has served more than 3,000 customers in total. CPET intelligent burn-in test system is widely applied in consumer, industrial control, communication, military, aerospace and other fields have been successful cases, enjoys high visibility and reputation in the industry, is the industry model of intelligent manufacturing system service provider.

Relying on strong research and development strength, CPET has fully realized independent research and development of core components and key technologies in the field of burn-in testing. Intelligent and easy to use upper computer software with independent intellectual property rights, efficient and reliable source load module, safe and stable electronic control system, can quickly respond to customer needs, meet the needs of different customers, and constantly create greater value for customers.

CPET intelligent burn-in test system innovative use of portable cabinet structure, convenient for customers flexible layout, relocation and movement. The closed burn-in environment temperature design can optimize the working environment of field personnel and reduce the operating power consumption. Customized interface and lamination design, more suitable for customer product operation, optimize and improve burn-in productivity and efficiency.

CPET has developed a variety of source load modules. For different application scenarios, it has developed programmable electronic load modules, programmable DC power modules, programmable feedback DC load modules, programmable bidirectional source load modules, and programmable feedback AC load modules. The module has the characteristics of high digitalization degree, high conversion efficiency and high power density, which reduces the floor area and saves the operation cost for customers.

CPET intelligent upper computer software has complete monitoring data, which can not only monitor input and output electrical parameters and environmental operation parameters, but also monitor and communicate with products under test in some fields. The internal electrical information, state information and fault information of products are included in the monitoring scope, so as to realize comprehensive monitoring of data in the process of burn-in test. CPET intelligent upper computer software has powerful data statistical analysis ability, can present production capacity, quality status, quality comparison, quality evolution and other information one by one, so as to facilitate customers to timely make decisions and adjustments to aging solutions according to quality and production status, and reduce customers' overall operating costs. CPET intelligent upper computer software fully supports data interconnection, remote login access and mobile Internet communication functions, data can be uploaded MES system, support in Windows, Android, IOS operating system running.

CPET will continue to focus on the field of power electronic products burn-in test, lead the industry to intelligent automation, green energy saving, capacity saving direction of continuous development, help intelligent manufacturing industry 4.0 transformation and upgrading.

Introduction to CPET intelligent burn-in test system

The CPET intelligent burn-in test system provides programmable input electrical parameters, output electrical parameters, environmental parameters, working mode and test timing sequence for the tested products. It collects the running data of the products in real time during the burn-in process for status detection and judgment, and carries out data statistics, analysis and comparison after burn-in.

CPET intelligent burn-in test system innovative use of portable cabinet structure, convenient for customers flexible layout, relocation and movement. Generally, there are two parts: control cabinet and burn-in cabinet. For the burn-in of some liquid cooling products, it is also necessary to provide temperature cabinet, air cabinet and other constant temperature heat dissipation devices.

In some areas with high power or large volume of burn-in products, burn-in cabinets can be decomposed into load cabinets or power cabinets, product cabinets or carts in order to effectively use the floor space.

- Control cabinet

The control cabinet is the "brain" of the entire intelligent burn-in test system, which can control the operation of the entire system. Generally, one control cabinet can control several burn-in cabinets, with built-in components such as input general power distribution, computer, monitor, mouse, keyboard, smoke sensor, emergency stop, indicator light and so on. If it is necessary to provide a burn-in test system with different input AC voltages, it can also be equipped with a multi-tap transformer; If a burn-in test system with programmable input DC voltage is required, a programmable DC power supply system can also be installed internally.

- Burn-in cabinet

Burn-in cabinet is the "trunk" of the entire intelligent aging test system. It has built-in thermostatic control device, programmable load, product interface board, smoke sensor, emergency stop, indicator light and other components. The general design is divided into two areas: product area and load area. The product area mainly provides editable high temperature environment for burn-in test products, products are placed on the table and product interface; The load area houses the programmable load, control board, auxiliary power supply, and other operating support components.

In some application fields, c cabinet can be divided into load cabinet or power cabinet, product cabinet or trolley form, one is to better use the floor space, the other is flexible to meet the manufacturing needs of customers.

- Water temperature tank、Air cabinet

In some applications where products require water cooling units, CPET can also provide customers with water temperature tanks. The water temperature tank provides the system with programmable temperature of the liquid heat cycle medium, instead of the air heat cycle medium. The water temperature cabinet can communicate with the upper computer software to set and monitor the water temperature, flow rate and pressure.

Isolated LED power consumption / energy-saving Burn-in system

Scope of application

- LED drive power

Outstanding functions

1. Set various load parameters and real-time monitor for parameters such as voltage, current and power by computer software
2. Be of five kinds of load modes such as CC, CV, CR, CP and LED
3. Support parallel connection of channels under any load modes and meet power extension of products
4. Support power cc from low voltage to high voltage and from low current to large current
5. Be of built-in over-temperature and smoke-alarming automatic protection device
6. Be of editable switch sequence and load conversion function
7. Cooperate with monitoring software of power burn-in, for application
8. Interface of multiple DC adapter plates can meet the demands for different output interface products
9. Be of optional multiple laminate structures at products zone and meet the requirements for more convenient operation of different products
10. Be of AC parameters measurement module and testing power input characteristics (optional)
11. Be of automatic voltage switching function (optional)
12. Be of temperature monitoring function at products zone (optional)
13. Be of PWM dimming function and two groups of logic control signal function(optional)
14. The model of E-load model can be selected.
15. Energy saving conversion efficiency over 85%

Performance parameters

Model	CP-3003	CP-3004	CP-3005	CP-3001	CP-3002
Power of single channel	40W/CH	100W/CH	125W/CH	250W~400W	600W
Quantity of load channels	240CH	192CH	192CH	96CH	96CH
Scope of load voltage	2-450V	2-450V	2-450V	8-420V	8-420V
Scope of load current	0.05-10A/CH	0.05-5A/CH	0.05-10A/CH	0.5-12A/CH	0.5-12A/CH
Load precision	± (1%+0.1FS)	± (1%+0.1FS)	± (1%+0.1FS)	± (1%+0.1FS)	± (1%+0.1FS)
Load Model	Electronic load type	Electronic load type	Electronic load type	Energy Saving	Energy Saving
Load Mode	CC/CV			CC+CV+CR+CP+LED Mode	
Number for plies of product zone	6				
Height for plies of product zone(mm)	170				
Width of products zone(mm)	380				
Temperature control of products zone	Temperature control type of products zone: normal temperature-60℃				
Structure material of trolley	Elaborately processed and produced with cold-rolled sheet				
Mode of main control	Monitoring software for burn-in of computer-monitoring type power				
Input mode of UUT	Multi-purpose socket/speaker wire clip/custom design				
Interface mode of UUT	Connecting fixture boards (with various specifications) for first choice/custom design				
External dimension (L*W*H)	2050*1200*1900/custom design				

Energy saving Burn-in test system of Charger/Adapter

Scope of application

- Power sources such as chargers, power adapters, wireless charging, etc

Outstanding functions

1. Set various load parameters and real-time monitor for parameters such as voltage, current and power by computer software
2. Be of CC load modes
3. Support parallel channel connection under CC load mode and meet the requirements for power extension of products
4. Be of built-in over-temperature and smoke-alarming automatic protection device
5. Be of editable switch sequence and load conversion function
6. Cooperate with monitoring software of power burn-in, for application
7. Interface of multiple DC adapter plates can meet the demands for different output interface products
8. Be of optional multiple laminate structures at products zone and meet the requirements for more convenient operation of different products
9. Be of AC parameters measurement module and testing power input characteristics(optional)
10. Be of automatic voltage switching function (optional)
11. Be of temperature monitoring function at products zone (optional)
12. Efficiency of energy saving conversion over 85%

Performance parameters

Model	CP-3006	CP-3008	CP-3009	CP-3010
Power of single channel	200W/CH	150W/CH	100W/192CH	65W/CH
Quantity of load channels	192CH	192CH	192CH	192CH
Scope of load voltage	2-100V	2-100V	2-100V	2-100V
Scope of load current	0.2-10A/CH	0.2-10A/CH	0.2-10A/CH	0.2-10A/CH
Load precision	± (1%+0.1%FS)	± (1%+0.1%FS)	± (1%+0.1%FS)	± (1%+0.1%FS)
Load Model	Energy Saving	Energy Saving	Energy Saving	Energy Saving
Load Mode	CC+CV Mode	CC+CV Mode	CC+CV Mode	CC+CV Mode
Number for plies of product zone	Single side	Single side	Single side	Single side
Height for plies of product zone(mm)	170			
Width of products zone(mm)	Series CC mode 340			
Temperature control of products zone	Temperature control type of products zone: normal temperature-60℃			
Structure material of trolley	Elaborately processed and produced with cold-rolled sheet			
Mode of main control	Monitoring software for burn-in of computer-monitoring type power			
Input mode of UUT	Multi-purpose socket/speaker wire clip/custom design			
Interface mode of UUT	Connecting fixture boards (with various specifications) for first choice/custom design			
Customizable fast charge function	QC, PO, FCP, SCP, PPS, etc.			
External dimension (L*W*H)	2050*880*1900/custom design			

Model	CP-3011	CP-3012	CP-3013	CP-3014
Power of single channel	65W/CH	65W/CH	65W/CH	100W/CH
Quantity of load channels	192CH	240CH	384CH	240CH
Scope of load voltage	2-100V	2-100V	2-100V	3-20V
Scope of load current	0.05-5A/CH	0.05-5A/CH	0.05-5A/CH	0.5-5A/CH
Load precision	± (1%+0.1%FS)	± (1%+0.1%FS)	± (1%+0.1%FS)	± (1%+0.1%FS)
Load Mode	CC+CV Mode	CC+CV Mode	CC+CV Mode	CC+CV Mode
Charge and discharge mode	No	No	No	CC+CV Mode
Number for plies of product zone	Single side	Single side	Single side	Single side
Height for plies of product zone(mm)	170	170	170	170
Width of products zone (mm)	340	340	340	340
Temperature control of products zone	Temperature control type of products zone: normal temperature-60℃			
Structure material of trolley	Elaborately processed and produced with cold-rolled sheet			
Mode of main control	Monitoring software for burn-in of computer-monitoring type power			
Input mode of UUT	Multi-purpose socket/speaker wire clip/custom design			
Interface mode of UUT	Connecting fixture boards (with various specifications) for first choice/custom design			
Customizable fast charge function	QC, PO, FCP, SCP, PPS, etc.			
External dimension (L*W*H)	2050*880*1900/custom design			

Portable Charger Burn-in Testing System

Scope of application

● Suitable for mobile power bank

Outstanding functions

1. Software sets load parameters, real-time monitoring of voltage, current, power and other parameters
2. It can monitor the charging status of mobile power, such as charging voltage, current and power
3. CC, CV load mode
4. Channels can be connected in parallel under CC load mode to meet product power expansion
5. Built-in over-temperature and smoke alarm automatic protection
6. Editable switching timing, load conversion function
7. Use with power burn-in monitoring software
8. A variety of DC adapter board interface can meet the needs of different output interface products
9. Multiple laminate structure options in the product area to meet different products more convenient operation
10. AC parameter measurement module, test power input characteristics (optional)
11. Automatic voltage switching (optional)
12. Product area temperature monitoring function (optional)

Energy-saving feedback TV power Burn-in system

Scope of application

- Suitable for the burn-in testing of TV Board/Display power supply

Outstanding functions

1. Set various load parameters and real-time monitor for parameters such as voltage, current and power by computer software
2. Be of list load mode and dynamic load mode
3. Be of editable switch sequence and load conversion function
4. Cooperate with monitoring software of power burn-in, for application
5. Be of five kinds of load modes such as CC, CV, CR, CP and LED
6. Support parallel connection of channels under any load modes and meet power extension of products
7. Support power burn-in from low voltage to high voltage and from low current to large current
8. Be of built-in over-temperature and smoke-alarming automatic protection device
9. Interface of multiple DC adapter plates can meet the demands for different output interface products
10. Be of optional multiple laminate structures at products zone and meet the requirements for more convenient operation of different products
11. Be of AC parameters measurement module and testing power input characteristics (optional)
12. Be of automatic voltage switching function (optional)
13. Be of temperature monitoring function at products zone (optional)
14. Be of PWM dimming function (optional)
15. 2 ways extension logic signal output (optional)
16. The model of E-load model can be selected
17. Efficiency of energy saving conversion over 85%

Model	CP-3018			CP-3019
Power of single channel	125W/CH	150W/CH	200W/CH	100W/CH
Quantity of load channels	60-120CH			60-120CH
Scope of load voltage	2-450V			2-450V
Scope of load current	0.5-10A/CH			0.5-10A/CH
Load precision	± (1%+0.1%FS)			± (1%+0.1%FS)
Load Model	Energy Saving			Energy consumption
Load Mode	CC+CV+CR+CP+LED Mode			
Number for plies of product zone	4			
Height for plies of product zone(mm)	260			
Width of products zone(mm)	300			
Temperature control of products zone	Temperature control type of products zone: normal temperature-60℃			
Structure material of trolley	Elaborately processed and produced with cold-rolled sheet			
Mode of main control	Monitoring software for burn-in of computer-monitoring type power			
Input mode of UUT	Multi-purpose socket/speaker wire clip/custom design			
Interface mode of UUT	Connecting fixture boards (with various specifications) for first choice/custom design			
External dimension (L*W*H)	2050*880*1900/custom design			

High-power energy-saving feedback Burn-in cabinet

Scope of application

- Suitable for burn-in of adapters, industrial power supplies, LED power supplies, server power supplies, communication power supplies, and SSN and NPS power supplies

Outstanding functions

1. Set various load parameters and real-time monitor for parameters such as voltage, current and power by computer software
2. Be of CC、CV、CR load modes
3. Support parallel channel connection under CC load mode and meet the requirements for power extension of products
4. Be of built-in over-temperature and smoke-alarming automatic protection device
5. Be of editable switch sequence and load conversion function
6. Energy conversion efficiency of is more than 85%
7. Cooperate with monitoring software of power burn-in, for application
8. Interface of multiple DC adapter plates can meet the demands for different output interface products
9. Be of optional multiple laminate structures at products zone and meet the requirements for more convenient operation of different products
10. Be of AC parameters measurement module and testing power input characteristics (optional)
11. Be of automatic voltage switching function (optional)
12. Be of temperature monitoring function at products zone (optional)
13. E-load model can be select,energy saving or Non-energy saving
14. Efficiency of energy saving conversion over 85%

Performance parameters

Model	CP-3021	CP-3022	CP-3023	CP-3033	CP-3034	CP-3035	CP-3036
Power of single channel	3200W/CH	800W/CH	200W/CH	400W/CH	1600W/CH	2400W/CH	2000W/CH
Quantity of load channels	24CH	48CH	96CH	96CH	36CH	36CH	12CH
Scope of load voltage	3-60V/10-120V	3-60V/10-120V	10-400V	3-60V	3-60V	10-100V	3-600V
Scope of load current	100A~400A/CH	600A/CH	0.5-12A/CH	0.5-40A/CH	0.5-120A/CH	0.5-80A/CH	480A/CH
Load precision	±(2%+0.5%FS)						
Load Model	Energy saving load module						
Load Mode	CC+CV+CR Mode						
Number for plies of product zone	6						
Height for plies of product zone(mm)	170						
Width of products zone(mm)	340	340	340	340	600	600	600
Temperature control of products zone	Temperature control tyep of products zone: normal temperature-60℃						
Structure material of trolley	Elaborately processed and produced with cold-rolled sheet						
Mode of main control	Monitoring software for burn-in of computermonitoring type power						
Input mode of UUT	Multi-purpose socket/speaker wire clip/custom design						
Interface mode of UUT	Connecting fixture boards(with various specifications)for first choice/custom design						
External dimension (L*W*H)	2050*1000*1900/custom design				2050*1280*1900/custom design		

Thermo-regulated type

Open type

Energy-saving feedback outdoor energy storage power Burn-in cabinet

Outstanding functions

1. Charge Control System
Software control program-controlled power supply, freely set voltage to charge energy storage power supply

2. Charge monitoring system
The software can monitor the voltage and current in the process of charging the energy storage power supply by the program-controlled power supply and calculate the charging power

3. AC discharge monitoring system
Monitor the voltage and current parameter specifications when the AC output of the energy storage power supply is discharged

4. AC to DC system
By monitoring the AC output parameters, the load value of the back-end DC load is automatically calculated and set

5. Fast charge deception function
Support QC/PD fast charge function

6. DC discharge monitoring system
Monitor the voltage and current parameter specifications when the DC output of the energy storage power supply is discharged

7. Calculation of charge and discharge capacity
The capacity range can be judged, for example, when the cut-off discharge capacity reaches the set value, the burn-in can be stopped or the next project can be executed

8. Multiple load combinations
Support multiple load combinations to configure the burn-in cabinet

Performance parameters

Burn-in cabinet structure and Burn-in quantity planning	Trolley size (mm)	L2050*W880*H2050mm (size of a single Burn-in cabinet)
	Number of trolley layers	4 layers, product area depth 400mm, (12 Burn-in positions per layer)
	Trolley height	350mm
	Trolley structure material/appearance color	2.0mm thick cold rolled sheet, computer white
	Load area cooling method	Top turbine exhaust fan top row type (easy to control the ambient temperature)
	Layer insulation and anti-static method	Epoxy insulation board with heat dissipation holes on the surface
	Overall burn-in room structure	Adopt mobile Burn-in split cabinet; beautiful appearance and easy to move and combine
Introduction to energy recovery module configuration, power of the tested power supply and Burn-in quantity	Energy recovery module control method	RS485 communication mode, upper computer RS232 communication mode
	Install energy consumption module model	CP8118
	Number of installed energy consumption modules	8 sets of 8CH modules per layer, 32 sets of Burn-in cabinet need to be installed
	Install energy recovery module model	CP8506 +CP5302 (see instructions for specifications)
	Energy recovery module isolation method	Electronic load module channel adopts photoelectric isolation (communication and power supply isolation)
	Number of installed energy recovery modules	4 sets of 8CH energy recovery modules per floor, 8 sets of the entire Burn-in cabinet need to be installed, 6 sets of 5KW single-phase grid-connected inverter modules are installed
	Energy recovery module design framework	No relay, long-life design scheme (independent intellectual property rights)
	Number of burn-in products in the whole cabinet	Single cabinet Burn-in 8 DC output (50W/100V/5A) AC output (220V/500W) below 32 energy storage power supplies
Introduction of electric control and temperature control device for power Burn-in cabinet	Wiring	Customer specified interface; input port is pin socket
	Panel function keys	Input AC voltage display, start switch, emergency stop switch
	Trolley power distribution and control mode	380V three-phase five-wire power distribution; computer monitoring and automatic electric control
	Trolley power distribution	A single Burn-in cabinet 500W*32 sets/0.85≈20KW, the measured power efficiency is calculated at 85%
	Way to control	The electric control includes manual/automatic switching, and it is monitored by the computer in real time when it is Burn-in. The electric control cabinet can expand the automatic switching function of AC voltage
	Safety protection	Equipment grounding protection, leakage switch protection, smoke alarm automatic power-off protection, etc.
Introduction to the main functions of the system	Suitable for energy storage power supply LED power supply, charger, industrial control power supply, display power supply, medical power supply, etc.	
	Free configuration of self-developed special monitoring software for power Burn-in, with independent intellectual property rights and no legal risks	
	Use programmable electronic load module to monitor output terminal voltage, current and power parameters	
	Dedicated monitoring software for Burn-in enjoys free final upgrade service, powerful expansion function, saving repeated investment in equipment	
	Burn-in parameters, time setting, ON/OFF sequence editing (test of the product being tested on and off), support for automatic voltage switching, load conversion and other functions can be programmed (Burn-in parameters can be automatically switched in a fixed time period)	
	The function of automatically turning off the power at the end of the Burn-in of the tested power supply is convenient for unattended	
	The computer automatically displays the quality of the tested power supply product, and multiple windows in the window are convenient for centralized management, which saves operators and improves production efficiency	
	The computer can store the Burn-in data report of the tested power supply, the process parameters of the tested power supply are easy to trace; in addition, it has barcode scanning and supports MES system upload	
	RS232 to RS485 adopts photoelectric isolation converter to improve communication reliability and prevent lightning damage to equipment	
	Each computer can monitor 18 devices at the same time, (each serial port can connect to 63 slaves, and each computer supports up to 18 serial ports)	
	The power Burn-in monitoring software has a built-in help file, which is convenient for solving operation questions immediately	

5G communication power Burn-in testing system

Scope of application

● It is mainly used to meet the burn-in requirements of 5G communication energy low-voltage three-phase 4KW and single-phase 6KW products, and is compatible with the burn-in test of 2KW and energy board power products to meet the factory test requirements. A single set of burn-in test system includes burn-in cabinet product cabinet (including temperature)control, power distribution, monitoring, etc.), burn-in distribution cabinet, load system, etc.

Performance parameters

Project	Specification requirements
Reference size (D*W*H)	D1000mm*W600mm*H1700mm
Burn-in test capacity	1200W/CH、60CH
Rated working voltage	AC：380VAC/Three-phase+10%/-15%
Rated insulation voltage	690VAC
Rated frequency	50Hz
Rated working current	Input:360A
Operating temperature	5℃-45℃
Output channel specifications	380VAC/Three-phase 60A
Protective function	Support smoke sense, over temperature, and three-color light display status at the same time
Monitoring rate	The refresh interval of digitally collected information in the cabinet needs to be less than 1S
Smoke sensor type	Overhead installation type smoke sense, normally closed point work
Flammability rating	All materials of the cabinet must meet the 99-V0 rating
Temperature rise of power distribution components	Complies with the provisions of IEC 60947-1 on temperature rise, and the temperature rise value does not exceed the corresponding standard requirements of the component
Leakage Protection	The power input of the cabinet must match the power leakage protection function of the equipment. The AC side needs to be installed with a 30mA leakage protection circuit
Monitoring / instruction requirementsc	Equipped with 19-inch LCD display, keyboard and mouse and other interactive components, using a computer to monitor the lower computer
	The man-machine interface is used to display the PLC collection temperature, control status, system status, fan running status, DD & DA equipment status, cabinet input AC power and other information in the cabinet. DD & DA status query and setting are monitored by the test monitoring board

EC fan Burn-in testing system

Scope of application

● Mainly used in burn-in test of temperature-controlled EC fan drive module

Performance parameters

	Project	Specification requirements
Skills requirement	Burn-in cabinet size(mm)	L2400*W1200*H1600
	Rated working voltage	460Vac
	Rated insulation voltage	690Vac
	Rated frequency	50Hz
	Rated working current	8.3A
	Power frequency withstand voltage for 1 minute	2500Vac
	AC input specifications	460Vac/8.3A
	AC output specifications	364Vac/8.35Amax
	Temperature rise	Complies with the provisions of IEC 947-1 on temperature rise, and the temperature rise value does not exceed thecorresponding standard requirements of the
	Master switch	4way 100A
	Input switch	24way 16A
	Output switch	24way 16A
	IP rating	IP20
	Noise	<70dB (measured at a distance of 1m from the device)
Structural requirements	Dimension (mm)	2400(W)*1200(D)*1600(H)
	Burn-in slot layout requirements	The bottom of the cabinet with 3 layers and 8 Burn-in slots on each floor needs to be reserved for 40CM installation inductance
	Docking method	Connector supports 600VAC, 16A hard connection
	Cabinet door	Double door
	Maintenance method	Before and after maintenance
Monitor and indicate	Monitoring requirements	1.Electrical interface: RS485 communication, a total of 24 channels, each interface is isolated from each other 2.Communication distance: 6m 3.Working mode: asynchronous half-duplex 4.Photoelectric isolation: isolation voltage 2.5KVrms 5.Parameter setting: RS485 baud rate: 9.6-115.2Kbps 6.Monitoring parameters: power on / off control of each slot, voltage and current settings and readback, temperature and alarm information readback
	Safety requirements	1.Energy analysis of key components in short-circuit and over-current scenarios 2.With energy analysis in over-temperature and smoking scenes 3.The control circuit has a leakage protection function
	Panel instructionsv	Each slot indicator

Car BMS high temperature Burn-in testing system

Scope of application

● This equipment is mainly used for high temperature burn-in test of BMS board of vehicle motor controller

Performance parameters

Project		Specification requirements
Skills requirement	Burn-in cabinet size(mm)	L1600*W1100*H1600
	Rated working voltage	380Vac
	Rated insulation voltage	690Vac
	Rated frequency	50Hz
	Rated working current	32A
	Power frequency withstand voltage for 1 minute	2500Vac
	UUT input specifications	12VDC/5Amax*36passageway
	UUT output specifications	Static burn-in without load
	Number of burn-in stations	36 (6 layers * 6, hierarchical control)
	Burn-in temperature requirements	Product area (50 ℃ ~ 85 ℃) can be set, ± 3 ℃ precise control
	Temperature rise	Requires a temperature rise from room temperature to 85 ° C within 15 minutes. When the internal temperature is high,the surface temperature of the burn-in cabinet is below 35 °
	Temperature rise	Circulation air control, hot air is prohibited to be discharged directly to the workshop environment
	Master switch	Route 1 32A
	Branch switch	6 way 10A/30mA/3P or 1P
	Noise	<70dB (measured at a distance of 1m from the device)
Structural requirements	Dimension(mm)	1600(W)*1100(D)*1600(H)
	In and out line	Support next in and next out
	Installation method	Floor installation
	Burn-in slot layout requirements	6 layers, 6 burn-in (3 before 3) slots per layer; each layer is individually powered on
	Docking method	Cable flexible connection
	Cabinet door	Front and rear double doors
	Maintenance method	Front, back, left and right maintenance
Monitor and indicate	Monitoring requirements	Touch screen displays the power-on state and sensor state of each slot
	Safety requirements	1.With power supply, product and other key components short-circuit, over-current field energy analysis
		2.With energy analysis under over-temperature, smoke and liquid leakage scenarios
		3.The control circuit has a leakage protection function
		4.Possess the ability to detect and operate ground faults and leakage faults
		5.PLC control, real-time monitoring of burn-in cabinet status
	Panel instructionsv	Status indicator of each slot

High-power adapter Burn-in testing system

Scope of application

● This burn-in testing system mainly applies the burn-in of various AC-DC adapters

Performance parameters

Project			Specification requirements
common enquiries	Capacity	Maximum feedback power of burn-in products	54KW@1000A
		Full load feedback efficiency	>85%
		Maximum power consumption at full load	<15KW
		Number of channels	A total of 6 floors, each with 12 channels of 1500W
		Number of loads	A total of 6 layers, 12 loads per layer, a total of 72 loads CP8503
	Single channel minimum load current		≤0.5A
	Available space on each floor of internal wall		Length ≥1.8m, depth ≥0.5m
	Equipment use environment		Temperature -10 ~ 55 ℃, humidity 0 ~ 95%
Input requirements	Input voltage		Each layer is DC-48 power supply (-48V voltage range 38.5 ~ 72V, and there are repeated on and off input, it is recommended that the energy be fed back to AC three-phase power)
	Switch control		Each layer is equipped with a contactor (1 contactor can not meet the flow, one contactor every 3 stations), the single-layer module is controlled by the remote through the contactor to power on and off, the contactor repeats 200ms cycle under the maximum power flow It can't be invalid after 10000 disconnection
	Input cable		When running at full power, the cable flow requirement cannot be exceeded, and the cable selection needs to meet the high temperature requirements of 105 ℃ and above
	Input terminal		The input side copper wire is routed, the copper wire guarantees the current flow at full load, the maximum input current of a single tested module is 50A
	Auxiliary source		Each layer provides 12 auxiliary source interfaces with an output voltage of 12V and a current of 2A or more. The auxiliary sources are isolated from each other to supply power to the monitoring board and Huawei fans.The auxiliary source will not be powered down by the input contactor of each layer
Output requirements	Output voltage		3~60Vdc
	load mode		CC
	Output cuurent		1500W @ 120A, the current setting accuracy is ± 3%, the minimum load current is 0.5A, each channel can independently control the load current, and the load CC mode is set to a minimum step of 0.1A
	Output voltage report		Error is less than +/- 0.2V
	Output socket		Each test slot needs to be equipped with a pair of terminals, each station is equipped with 8 output terminals (positive and negative), the terminal flow ≥20A
Temperature			The internal working temperature range of the burn-in cabinet is room temperature ~ 70 degrees, and the time for heating up to 70 degrees is not more than 30min. Each temperature within the working temperature range can work for a long time. There is a temperature control zone on every two floors, the temperature of each control zone is controlled separately, and the temperature deviation is +/- 3 degrees

Lithium battery module Burn-in testing system

Scope of application

● This equipment is for lithium battery module burn-in testing system

Performance parameters

Project	Specification requirements
Burn-in cabinet size	L2600*W1320*H1980
Distribution cabinet size	L600*W1320*H1980
Electrical design	1.Incoming line: three-phase 380V / 68A 2.Power distribution: AC output adopts three-phase five-wire system, single-phase voltage supplies power to the power module, and three-phase equalization is carried out in layers according to a \ b \ c \ a \ b \ c 3.Control: the power output of each layer can be controlled by monitoring 4.Including 22-inch liquid crystal display and keyboard, LCD human interactive interface, etc
	1.Overall layout: the aging cabinet contains the product area and the isolation module area, and the two areas are isolated. There are 6 layers in the burn-in cabinet product area, 3 slots per layer, 1pcs PSU per layer, 6pcs isolation module 2.Connection method: adopt hard connection method, and configure the fixed external interface in the burn-in cabinet, including power supply output, load input, 485 signal,address signal; the tested product passes the special old Adapting and docking with the fixture 3.Interface terminal: The female end of the DL17 connector is selected. When the backplane is designed, each slot corresponds to two DL17 connectors. 2 0 # terminals forpower supply output, 2 0 # terminals for load input,485 communication signals use 2 20 # small signal terminals, and slot address signals (0 ~ 31) use 6 20 # small signal terminals 4.Air duct design: adopt air inlet at the bottom and one or two fans at the top 5.Temperature control: (room temperature + 10 ℃) ~ 60 ℃, smooth and adjustable 6.Heat capacity design: 13.5kW (2.25kW * 6) 7.Safety regulation design: meet safety regulation, fire prevention and emergency protection functions
Monitoring hardware	1.PC: support more than one 485 serial communication, Windows 7 system, hard disk 500G. Equipped with 22-inch monitor, mouse and keyboard, wireless barcode gun and other equipment. The shell of the computer host needs to be grounded 2.General monitoring: 1-way 485 communicates with PC, 4-way downlink 485 communicates with 4 types of monitoring subsystems including power module, isolation module, power environment and tested product 3.PSU monitoring: monitor each power supply module through 485 serial communication, 485 tool board realizes the conversion of burn-in cabinet 485 to PSU CAN, the CAN address of the power module backplane can be Offline settings 4.Load isolation module monitoring: monitor each isolation module through 485 serial communication, 485 tool board realizes the conversion of burn-in cabinet 485 to CAN, and the CAN address of the backplane can be offline Settings 5.Power environment monitoring: each layer of power supply, fan switch can be individually controlled, each slot provides a set of voltage (0 ~ 100V), current (0 ~ 100A), temperature, smoke sensing sampling information
Monitoring softwa	1.485 receives the command from the host computer, and then monitors the power module through CAN accordingly 2.The 485 interface meets the protocol, realizes the output voltage and current limit setting commands, and realizes the output voltage, current, alarm status and other information query commands 3.485 receives the commands from the host computer, monitors each monitoring unit, realizes the on and off setting commands of each switch, and realizes the information query commands such as voltage, current, temperature, smoke status, etc. 4.Manage and control power module monitoring, load isolation module monitoring,burn-in cabinet power environment monitoring and product under test monitoring through 4 downstream 485 interfaces, and PC through 1 upstream 485 interface Complete monitoring information interaction 5.It can automatically handle the abnormality of the downstream cabinet equipment (temperature, voltage, current, etc.) in real time, parameter adjustment, control restart and reset, and record alarms
Machine protection, alarm, and control technical requirements	Cabinet smoke, over temperature protection
	Cabinet heat dissipation: single load cabinet product area has 6KW heat dissipation capacity
	Leakage protection: a leakage protection function that matches the power input to the power consumption of the device, and a 30mA leakage protection circuit breaker is installed on the AC side

Rectifier Burn-in testing system

Scope of application

● This equipment is suitable for rectifier burn-in test

Performance parameters

Project	Specification requirements
Burn-in cabinet size	L1820*W1050*H1980
Control cabinet size	W600*D1050*H1980
Electrical design	1.Incoming line: three-phase 380V / 100A 2.Power distribution: AC output adopts three-phase five-wire system, single-phase voltage supplies power to the product, and three-phase equalization is carried out in layers according to a \ b \ c \ a \ b \ c 3.Control: the power output of each layer can be controlled by monitoring 4.Including 19-inch liquid crystal display and keyboard, LCD human interactive interface, etc
	1.Overall layout: the burn-in cabinet is mainly composed of 9 layers in the product area, with 8 slots per layer 2.Connection method: adopt hard connection method, and configure the fixed external interface in the aging cabinet, including power supply output, load input, 485 signal,address signal; the tested product passes the special old Adapting and docking with the fixture 3.Interface terminal: select female end of DL37 gold-plated connector 4.Air duct design: adopt air inlet at the bottom and one or two fans at the top 5.Temperature control: (room temperature + 10 ℃) ~ 60 ℃, smooth and adjustable 6.Heat capacity design: 9kW 7.Safety regulation design: meet safety regulation, fire prevention and emergency protection functions
Monitoring hardware	1.PC: support more than one 485 serial communication, Windows 7 system, hard disk 500G. Equipped with 22-inch monitor, mouse and keyboard, wireless barcode gun and other equipment. The shell of the computer host needs to be grounded 2.Monitoring object A.Voltage and current information of all slots B.Set value and status value information of all load modules C.Device / PLC temperature setting value, switching value setting value, status value information D.Fan control board speed information E.Leakage current information F.Smoke alarm status G.Sampled values of all temperature sensors
Monitoring softw	1.Operation interface: computer + terminal software (terminal monitoring is used to monitor the aging cabinet, and the monitoring interface integrates the SMU interface to monitor the status of the module) 2.The communication mode between the host computer and the monitoring system is 485 network port 3.Set and monitor the ambient temperature in the cabinet 4.SMU monitors the status of each burn-in module 5.Total burn-in time setting: 0-9999H (considering long-term burn-in experiment needs) computer terminal software adjustment setting 6.Support the unit setting of the output voltage judgment range of the layered slot (Supports simultaneous burn-in of multiple models with similar specifications for one cabinet) 7.Set the input power ON / OFF of the control module, support various ON / OFF switch control combinations, and have CYCLE settings, different timings for each cabinet 8.Permission control, divided into 3 levels of permissions to manage the aging program 9.ID identification of burn-in carrier board
Machine protection, alarm, and control technical requirements	Cabinet smoke, over temperature protection
	The product area has a heat dissipation capacity of 9KW
	Leakage protection: a leakage protection function that matches the power input to the power consumption of the device, and a 30mA leakage protection circuit breaker is installed on the AC side

CP3900C CP3900

Electrical automatic control cabinet CP3900

Scope of application

- It is applicable to power supply burn-in test, lamp burn-in test, burn-in room, automatic control etc

Outstanding functions

1. Automatic switching control for multiple input voltage
2. High-end industrial computer with high resolution LCD
3. Monitoring interface with colorful content
4. Ergonomic design and easy operation
5. Monitors up to 18 burn-in cabinets at the same time
6. Famous brand electrical controls, electrical safety protection and operation safety

Model	Dimension	Voltage Count	Control Count	Power Transformer
CP-3900	1000*850*2300	5	10	200KVA
CP-3901	880*880*1900	2	1	30KVA
CP-3902	880*880*1900	4	1	30KVA
CP-3903	880*880*1900	6	1	30KVA
CP-3904	880*880*1900	2	2	60KVA
CP-3905	880*880*1900	4	2	60KVA
CP-3906	880*880*1900	6	2	60KVA
CP-3907	880*880*1900	2	4	120KVA
CP-3908	880*880*1900	4	4	120KVA
CP-3909	880*880*1900	6	4	120KVA
CP-3910	1200*880*1900	2	8	250KVA
CP-3911	1200*880*1900	4	8	250KVA
CP-3912	1200*880*1900	6	8	250KVA
CP-3913	880*880*1900	4	4	60KVA
CP-3914	880*880*1900	2	1	30KVA
CP-3915	880*880*1900	4	1	30KVA
CP-3916	880*880*1900	6	1	30KVA
CP-3917	880*880*1900	2	2	60KVA
CP-3918	880*880*1900	4	2	60KVA
CP-3919	880*880*1900	6	2	60KVA
CP-3920	880*880*1900	2	4	120KVA
CP-3921	880*880*1900	4	4	120KVA
CP-3922	880*880*1900	6	4	120KVA
CP-3923	1200*880*1900	2	8	250KVA
CP-3924	1200*880*1900	4	8	250KVA
CP-3925	1200*880*1900	6	8	250KVA
CP-3926	880*880*1900	4	4	60KVA
CP-3927	880*880*1900	4	4	60KVA

NEW ENERGY INTELLIGENT BURN-IN TEST SYSTEM

CPET is one of the earliest manufacturers involved in the research and development, manufacturing and sales of new energy product burn-in test system. CPET has independently developed 20kW PHOTOVOLTAIC analog DC power supply, 15kW high voltage bidirectional source load module, 7kW AC feedback load, 3.2KW low voltage DC feedback load, charging protocol board and other products. It has successively launched intelligent burn-in test solutions for photovoltaic inverters, household energy storage, commercial energy storage, large energy storage, AC charging piles, DC charging modules, DC charging piles, vehicle power assembly, vehicle power assembly and other fields, and launched charge and discharge test solutions for power battery Pack.

CPET is committed to creating an intelligent and clean world. Through the use of digital control, soft switch, inverter feedback and other industry-leading technologies, CPET is constantly bringing forth more efficient, intelligent and reliable new energy intelligent burn-in test system products, and truly practicing the concept of "green energy saving, pollution reduction and emission reduction". For the development of the cause of new energy, the governance of the ecological environment to contribute their own strength.

CPET new energy products have been widely used and recognized by well-known domestic and foreign companies such as Huawei, BYD, Guangbao, Magmitt, Jingquanhua, Eurotron, Yijiatong and so on.

Advantageous features

Excellent energy saving

The highest conversion efficiency (module) ≥ 95%	Soft-switching high-efficiency conversion technology
The highest power factor ≥ 0.99	Power Factor Correction Technology
THDI≤3%@full load	Intelligent sleep technology to reduce standby loss

Excellent performance

Current accuracy: ≤±(2%+0.4%FS)	Communication delay: ≤10mS
Voltage accuracy: ≤±(1%+0.2%FS)	Temperature control accuracy: ≤±5℃

Excellent intelligence

Programmable Burn-in Timing	Intelligent quality data analysis and comparison
Automatic timing switch in the whole process	Intelligent equipment management and maintenance monitoring
Real-time recording of whole process data	Network interconnection, remote monitoring, remote upgrade

Outstanding quality

Programmable Burn-in Timing	Compliant with international safety certification design, providing safety guarantee
Automatic timing switch in the whole process	Selection of internationally renowned brand devices to ensure the quality of incoming materials
Real-time recording of whole process data	

Typical burn-in test system for new energy vehicle power supply assembly

Architecture diagram

Standard unit   Optional unit

Category	Project	Content	Remark
System	System structure	1 control cabinet + 2 aging cabinets + 1 water temperature cabinet	——
	Overall size	6900*1600*2050mm	length*width*height
	Total floor area	6900*2500mm(Including operation area)	length*width
	Total input voltage	Three-phase five-wire system 220Vac (rated)	——
	Total input current	100A	——
	Total input power	35kW	——
	Application ambient temperature	0-40℃	——
	Application environment humidity	0-95%	No condensation
	Fire protection requirements	Materials meet UL 94V0 rating	——
	Environmental requirements	Materials comply with Rohs, WEEE requirements	——
	Safety requirements	Comply with IEC62368 international standard design requirements	——
Burn-in cabinet	Burn-in bits/cabinet	16 bits/cabinet	——
	Burn-in bits/layer	4 bits/layer	——
	Burn-in product power	7.5kW/bit	——
	Burn-in product input voltage	50-800Vdc	——
	Burn-in product input current	25A/bit	——
	Low-voltage power of Burn-in products	3.2kW/bit	——
	Low voltage voltage of Burn-in products	8-30V	——
	Burn-in product battery current	240A/bit	——
	Burn-in product AC power	7kW/bit	——
	Burn-in products AC voltage	220/380Vac/50Hz three-phase five-wire	Rated grid
	Burn-in product AC current	32A/bit	——
	AC Connector Type	PA45（L1 / L2/ L3/N/PE)	——
	Power Connector Type	SB50（HV+/HV-)	——
	Low Voltage Connector Type	SB350（LV+/LV-)	——
	Signal Connector Type	24Pin 5566	——
	Bit Status Indicator	no	——
	Other functions	——	——
	Input power	130kW	——
	Feedback power	100kW	——
	Constant temperature range	Room temperature+5℃-60℃	——
	Constant temperature accuracy	±5℃	Upgradable to ±3℃
	Number of temperature control points	5	——
	Open type	Sliding door/folding door/side door	Optional
	Volume size	2100*1600*2050mm	length*width*height
	Dimensions in the product area	1700*550*1500mm	length*width*height
	Product area layers	4	——
	Bit space size	425*550*350mm	length*width*height
	Minimum floor height	300mm	——
	Top floor height	1450mm	——
	Product area air duct direction	Left and right ventilation	——
	Cooling method	Air cooling	——
	Material	1.5mm cold rolled sheet, epoxy sheet (laminate)	——
Water temperature cabinet	Water temperature range	Room temperature+5℃-60℃	——
	Water temperature accuracy	±5℃	——
	Water temperature	8	For 2 cabinets
	Number of serial products/way	4/way	——
	Dissipated power/circuit	4kW/way	——
	Cooling method	Chilled water or air cooling	——
	Water pressure range	0.05-0.2MPa	——
	Flow range	3-15L/min	——
	Channel diameter	3/4 inch	——
	Volume size	880*1000*1900mm	length*width*height
Monitoring software	Display running information	Input voltage, current, power, output voltage(DC source module communication or product communication)	——
	Show status information	Not Connected / Vacant / Passed / Under Voltage / Under Current / Over Voltage / Over Current / No Output / Protection	——
	Display accuracy	±(1%+0.2%FS)	Double the current/power
	Control precision	±(1%+0.2%FS)	Double the current/power
	Bad way of reporting	Audible alarm	——
	Report format	CSV format	——
	Statistics	Yield/CPK/Time Distribution	——
	MES docking	Support	——
	Scan speed	5S	——
Control cabinet	Control system	Window 10	——
	Display medium	Computers and Monitors	——
	Manipulating medium	Mouse and keyboard	——
	Communication method	Cable	——
	Type of protection	Over current, leakage, over temperature, smoke, emergency stop	——
	Alarm method	Sound and light alarm, remote network	——
	Heat dissipation type	Air cooling	——
	Maintenance mode	Post maintenance	——
	Material	1.5mm cold rolled sheet	——
	Volume size	880*860*1900mm	length*width*height

New energy vehicle electric drive controller (MCU) typical burn-in test system
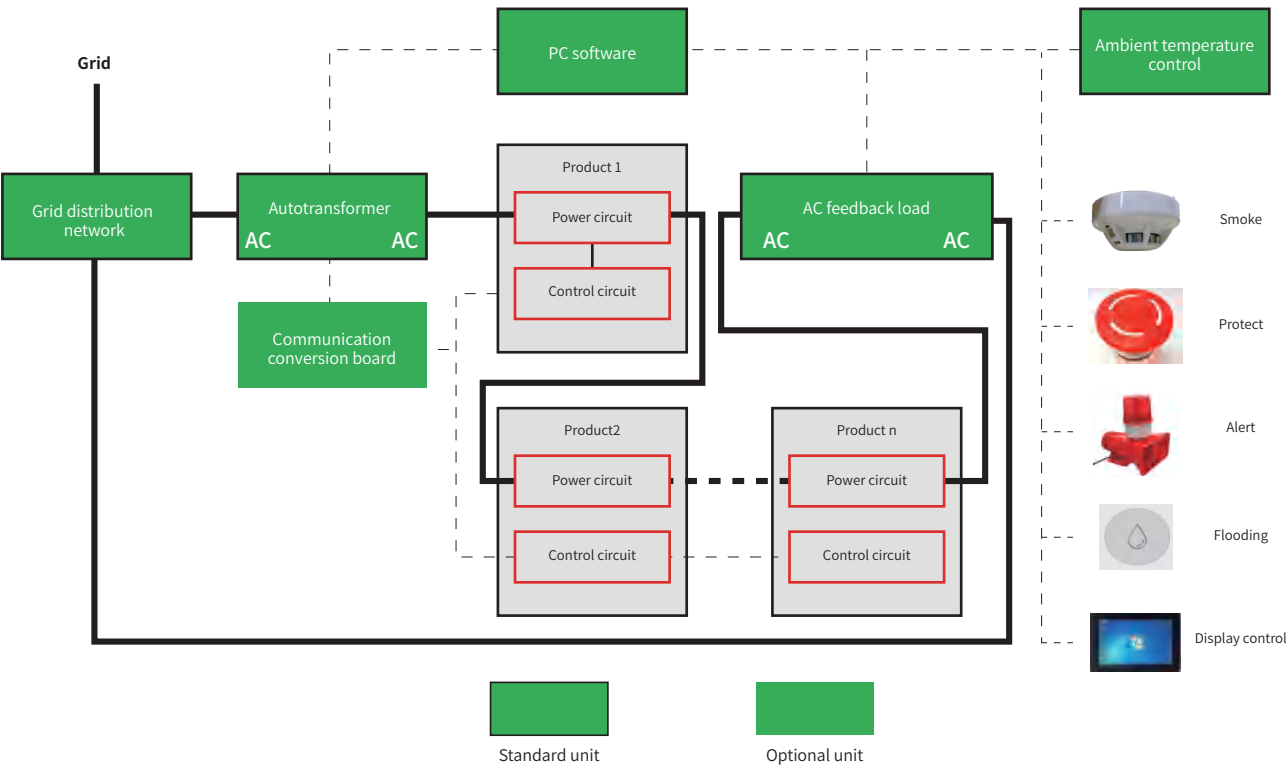
Architecture diagram

Grid

- Grid distribution network
- HVDC power supply — AC / HVDC
- PC software
- Power assembly
  - Power circuit
  - Control circuit
- AC feedback load — AC / HVDC
- Motor load — AC
- Inductive load — AC
- 12 24V ON gear power
- Communication conversion board
- Water temperature control
- Ambient temperature control
- Smoke
- Protect
- Alert
- Flooding
- Display control

Choose one from three

Standard unit   Optional unit

Category	Project	Content	Remark
System	System structure	1 control cabinet + 2 aging cabinets + 1 water temperature cabinet	——
	Overall size	6900*1600*2050mm	length*width*height
	Total floor area	6900*2500mm(Including operation area)	length*width
	Total input voltage	Three-phase five-wire system 220Vac (rated)	——
	Total input current	250A	——
	Total input power	150kW	——
	Application ambient temperature	0-40°C	——
	Application environment humidity	0-95%	No condensation
	Fire protection requirements	Materials meet UL 94V0 rating	——
	Environmental requirements	Materials comply with Rohs, WEEE requirements	——
	Safety requirements	Comply with IEC62368 international standard design requirements	——
Burn-in cabinet	Burn-in bits/cabinet	16 bits/cabinet	——
	Burn-in bits/layer	4 bits/layer	——
	Burn-in product power	20kW/bit	——
	Burn-in product input voltage	150-1000Vdc	——
	Burn-in product input current	50A/bit	——
	Burn-in Product Load Category	Inductive/Motor/AC Feedback Load	——
	Burn-in product load current	350A (inductor/motor)/40A (AC feedback load)	Rated value
	Auxiliary voltage of Burn-in products	8-30Vdc	——
	Auxiliary current of Burn-in products	10A	Max value
	Power Connector Type	SB50（HV+/HV-）	——
	Load Connector Type	SB350（U/V/W/PE）	——
	Signal Connector Type	24Pin 5566	——
	Bit Status Indicator	No	——
	Other functions	——	——
	Input power	320kW	——
	Feedback power	256kW	AC feedback load
	Constant temperature range	Room temperature+5°C-60°C	——
	Constant temperature accuracy	±5°C	Upgradable to ±3°C
	Number of temperature control points	5	——
	Open type	Sliding door/folding door/side door	Optional
	Volume size	2100*1600*2050mm	length*width*height
	Dimensions in the product area	1700*550*1500mm	length*width*height
	Product area layers	4	——
	Bit space size	425*550*350mm	length*width*height
	Minimum floor height	300mm	——
	Top floor height	1450mm	——
	Product area air duct direction	Left and right ventilation	——
	Cooling method	Air cooling	——
	Material	1.5mm cold rolled sheet	——
Water temperature cabinet	Water temperature range	Room temperature+5°C-60°C	——
	Water temperature accuracy	±5°C	——
	Water temperature	8	For 2 cabinets
	Number of serial products/way	4/way	——
	Dissipated power/circuit	4kW/way	——
	Cooling method	Chilled water or air cooling	——
	Water pressure range	0.05-0.2MPa	——
	Flow range	3-15L/min	——
	Channel diameter	3/4 inch	——
	Volume size	880*1000*1900mm	length*width*height
Monitoring software	Display running information	Input voltage, current, power, output voltage (DC source module communication or product communication)	——
	Show status information	Not Connected / Vacant / Passed / Under Voltage / Under Current / Over Voltage / Over Current / No Output / Protection	——
	Display accuracy	±(1%+0.2%FS)	Double the current/power
	Control precision	±(1%+0.2%FS)	Double the current/power
	Bad way of reporting	Audible alarm	——
	Report format	CSV format	——
	Statistics	Yield/CPK/Time Distribution	——
	MES docking	Support	——
	Scan speed	5S	——
Control cabinet	Control system	Window 10	——
	Display medium	Computers and Monitors	——
	Manipulating medium	Mouse and keyboard	——
	Communication method	Cable	——
	Type of protection	Over current, leakage, over temperature, smoke, emergency stop	——
	Alarm method	Sound and light alarm, remote network	——
	Heat dissipation type	Air cooling	——
	Maintenance mode	Post maintenance	——
	Material	1.5mm cold rolled sheet	——
	Volume size	880*860*1900mm	length*width*height

Typical Burn-in test system of AC charging pile

## Architecture diagram

Standard unit   **Optional unit**

Category	Project	Content	Remark
System	System structure	1 control cabinet + 2 burn-in cabinets + 4 trolleys	Support independent load cabinet
	Overall size	3800*1800*1900mm	length*width*height
	Total floor area	3800*2500mm(Including operation area)	length*width
	Total input voltage	Three-phase five-wire system 220Vac (rated)	——
	Total input current	32A	——
	Total input power	18kW	——
	Application ambient temperature	0-40℃	——
	Application environment humidity	0-95%	No condensation
	Fire protection requirements	Materials meet UL 94V0 rating	——
	Environmental requirements	Materials comply with Rohs, WEEE requirements	——
	Safety requirements	Comply with IEC62368 international standard design requirements	——
Burn-in cabinet	Burn-in bits/cabinet	18 bits/cabinet	——
	Burn-in bits/surface	9 bits/surface	——
	Burn-in bits/layer	3 bits/layer	——
	Burn-in product power	7.5kW (single-phase)/bit, 21kW (three-phase)/bit	——
	Burn-in product input voltage	220Vac (single phase)/380Vac (three phase)	The rated power grid
	Burn-in product input current	32A/bit	——
	Burn-in Product Load Category	7kW (single-phase)/bit, 19.5kW (three-phase)/bit	——
	Burn-in product load current	220Vac (single phase)/380Vac (three phase)	The rated power grid
	Auxiliary voltage of Burn-in products	32A/bit	——
	Auxiliary current of Burn-in products	Universal plug (L1/ L2/ L3/N/PE)	——
	Power Connector Type	GB AC charging interface (L1/ L2/ L3/N/PE)	——
	Signal Connector Type	RJ45	——
	Bit Status Indicator	No	——
	Other functions	——	——
	Input power	21kW	——
	Feedback power	19.5kW	——
	Constant temperature range	Room temperature	Open
	Number of temperature control points	5	——
	Volume size	1400*800*1900mm	length*width*height
	Dimensions in the product area	1400*1500mm+1400*1500mm	L*H Double-sided, open
	Product area layers	3 layers/side 2 sides/cabinet	——
	Bit space size	400*420mm	length*width*height
	Minimum floor height	250mm	——
	Top floor height	1100mm	——
	Cooling method	Air cooling	——
	Material	1.5mm cold rolled sheet	——
Trolley	Volume size	1400*450*1600mm	length*deep*height
	Layers	3层Floor	——
	Layer spacing	420mm	——
	Load bearing	600kg	——
	Mobile way	Casters	——
Monitoring software	Display running information	Input voltage, current, power, output voltage (DC source module communication or product communication)	——
	Show status information	Not Connected / Vacant / Passed / Under Voltage / Under Current / Over Voltage / Over Current / No Output / Protection	——
	Display accuracy	±(1%+0.2%FS)	Double the current/power
	control precision	±(1%+0.2%FS)	Double the current/power
	Bad way of reporting	Audible alarm	——
	Report format	CSV format	——
	Statistics	Yield/CPK/Time Distribution	——
	MES docking	Support	——
	Scan speed	5S	——
Control cabinet	Control system	Window 10	——
	Display medium	Computers and Monitors	——
	Manipulating medium	Mouse and keyboard	——
	Communication method	Cable	——
	Type of protection	Over current, leakage, over temperature, smoke, emergency stop	——
	Alarm method	Sound and light alarm, remote network	——
	Heat dissipation type	Air cooling	——
	Maintenance mode	Post maintenance	——
	Material	1.5mm cold rolled sheet	——
	Volume size	880*860*1900mm	length*width*height

Typical burn-in test system for floor-standing DC charging piles
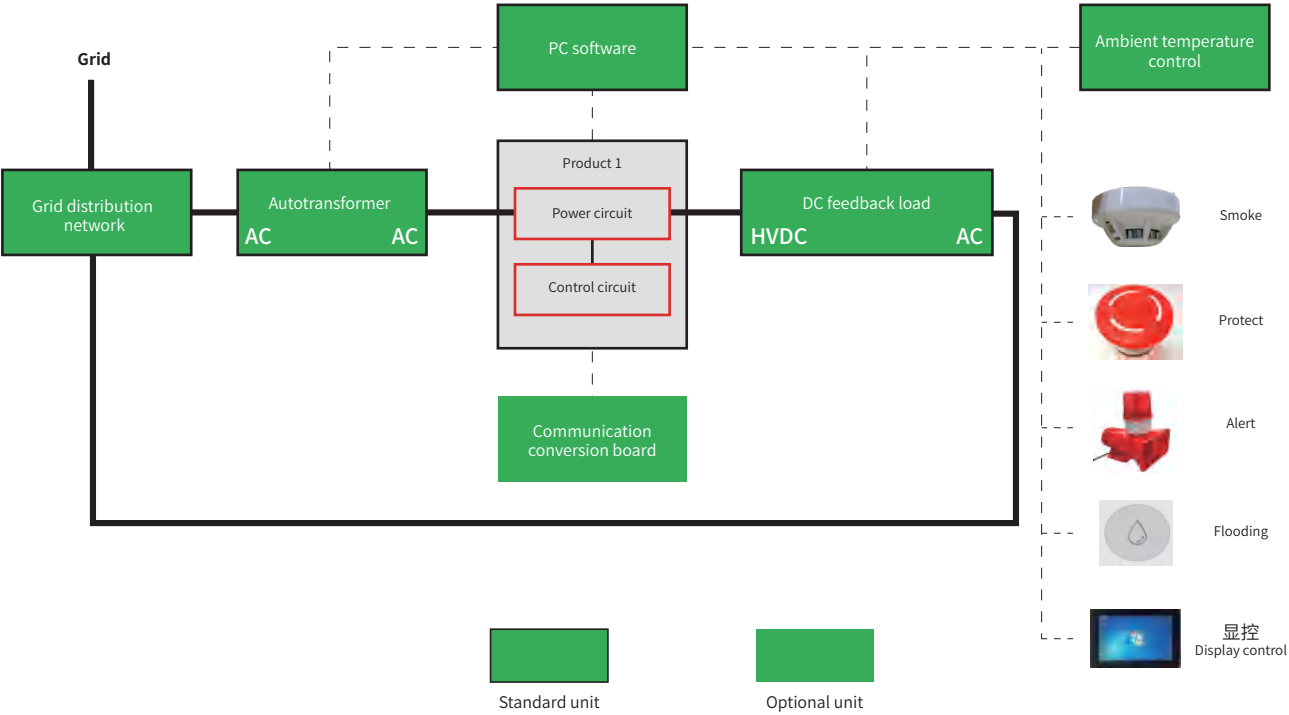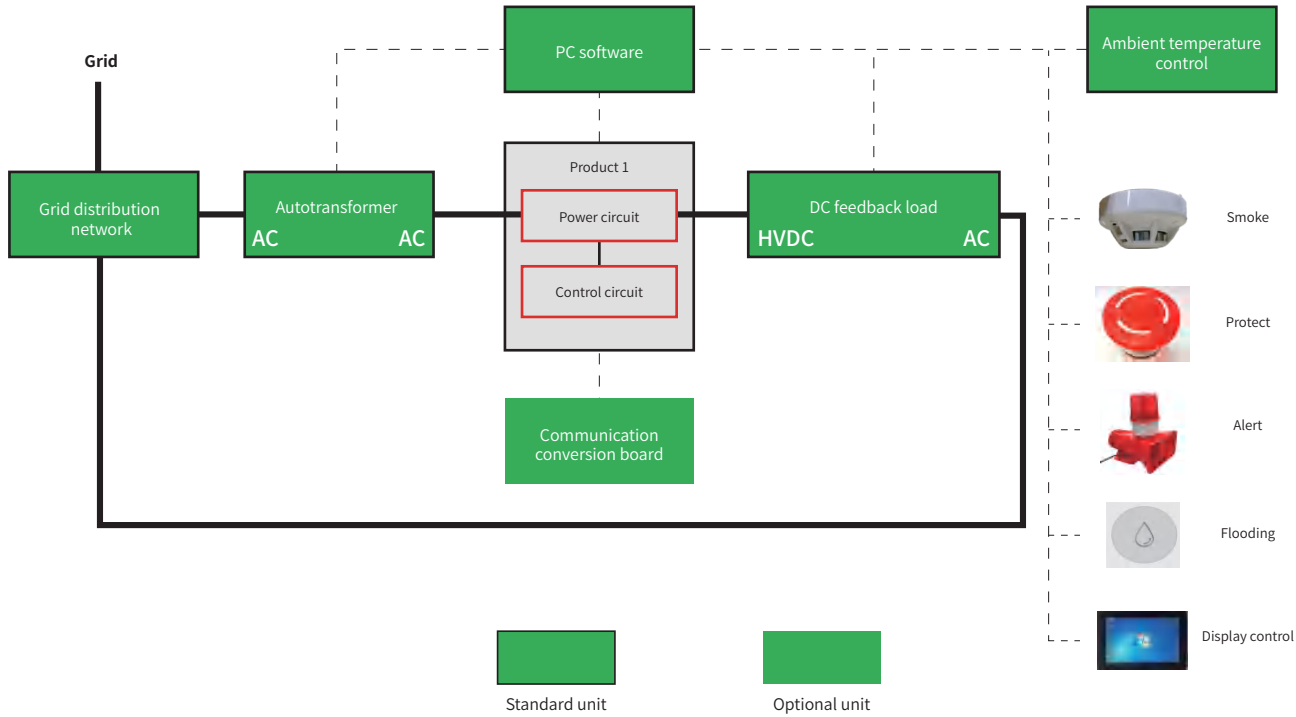
Architecture diagram

| Standard unit | Optional unit |

Performance parameters

Category	Project	Content	Remark
System	System structure	1 control cabinet + 6 load cabinets	Support multiple load cabinets
	Overall size	5800*860*2050mm	length*width*height
	Total floor area	5800*1800mm(including operation area)	length*width
	Total input voltage	Three-phase five-wire system 220Vac (rated)	——
	Total input current	200A*6	——
	Total input power	100kW*6	——
	Application ambient temperature	0-40°C	——
	Application environment humidity	0-95%	No condensation
	Fire protection requirements	Materials meet UL 94V0 rating	——
	Environmental requirements	Materials comply with Rohs, WEEE requirements	——
	Safety requirements	Comply with IEC62368 international standard design requirements	——
Power supply cabinet	Units/Cabinet	4 bits/cabinet	——
	Burn-in product power	150kW/bit	——
	Burn-in product input voltage	380Vac/Three Phase	The rated power grid
	Burn-in product input current	250A/bit	——
	Burn-in Product Load Category	132kW/bit	——
	Burn-in product load current	100-1000Vdc	——
	Auxiliary voltage of Burn-in products	430A/bit 250A/bit	——
	AC Connector Type	PA350 (L1/ L2/ L3/N/PE)	——
	DC Connector Type	REMA630 GB DC Charging Gun Holder	——
	Signal Connector Type	RJ45	——
	Bit Status Indicator	No	——
	Other functions	——	——
	Input power	600kW	——
	Feedback power	500kW	——
	Volume size	800*800*2050mm	ength*width*height
	Air duct direction	Forward wind, upward wind	——
	Cooling method	Air cooling	——
	Material	1.5mm cold rolled sheet	——
Monitoring software	Display running information	Input voltage, current, power, output voltage (DC source module communication or product communication)	——
	Show status information	Not Connected / Vacant / Passed / Under Voltage / Under Current / Over Voltage / Over Current / No Output / Protection	——
	Display accuracy	±(1%+0.2%FS)	Double the current/power
	Control precision	±(1%+0.2%FS)	Double the current/power
	Bad way of reporting	Audible alarm	——
	format	CSV format	——
	Statistics	Yield/CPK/Time Distribution	——
	MES docking	Support	——
	Scan speed	5S	——
Control cabinet	Output Power	5kW	——
	Control system	Window 10	——
	Display medium	Computers and Monitors	——
	Manipulating medium	Mouse and keyboard	——
	Communication method	Cable	——
	Type of protection	Over current, leakage, over temperature, smoke, emergency stop	——
	Alarm method	Sound and light alarm, remote network	——
	Heat dissipation type	Air cooling	——
	Maintenance mode	Post maintenance	——
	Material	1.1.5mm cold rolled sheet	——
	Volume size	880*860*1900mm	length*width*height
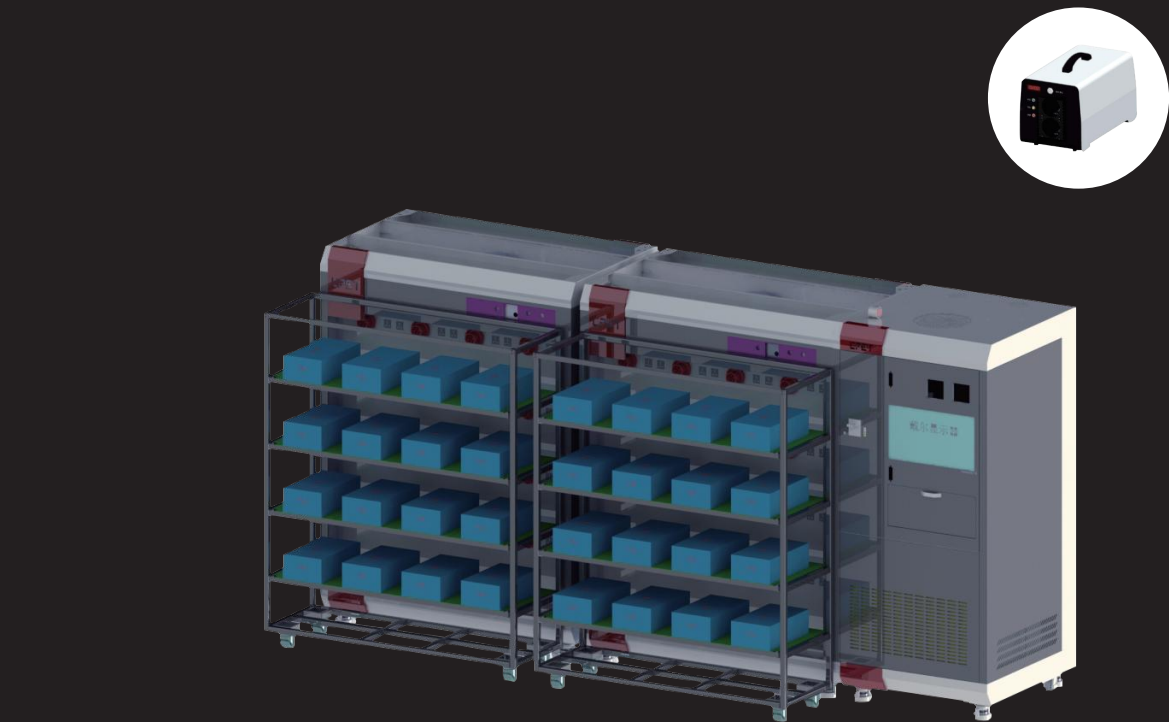
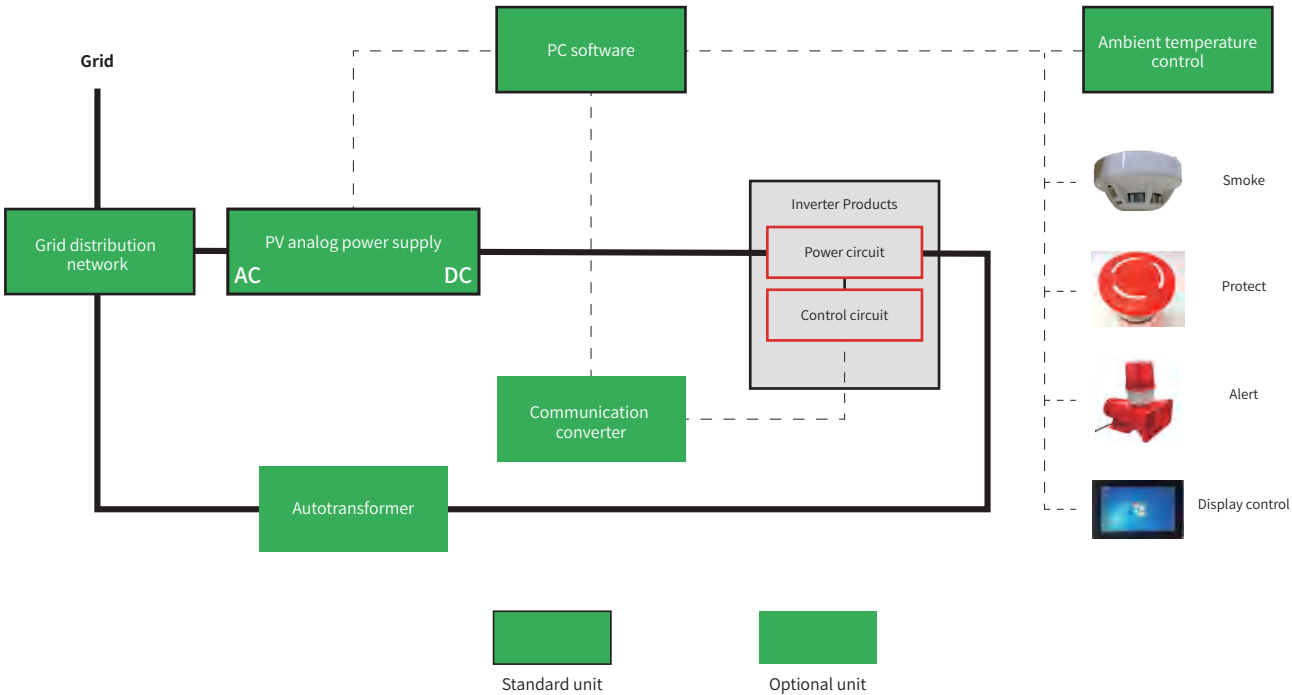# Typical burn-in test system for portable DC charging piles

Architecture diagram

```
Grid ──── Grid distribution network ──── Autotransformer (AC → AC) ──── Product 1 [Power circuit / Control circuit] ──── DC feedback load (HVDC → AC)

PC software ──── Ambient temperature control

Communication conversion board

Smoke
Protect
Alert
Flooding
Display control

Standard unit        Optional unit
```

Category	Project	Content	Remark
System	System structure	1 control cabinet + 2 burn-in cabinets + 4 trolleys	Support independent load cabinet
	Overall size	3800*1800*1900mm	length*width*height
	Total floor area	3800*2500mm(Including operation area)	length*width
	Total input voltage	Three-phase five-wire system 220Vac (rated)	——
	Total input current	200A	——
	Total input power	100kW	——
	Application ambient temperature	0-40℃	——
	Application environment humidity	0-95%	No condensation
	Fire protection requirements	Materials meet UL 94V0 rating	——
	Environmental requirements	Materials comply with Rohs, WEEE requirements	——
	Safety requirements	Comply with IEC62368 international standard design requirements	——
Burn-in cabinet	Burn-in bits/cabinet	16 bits/cabinet	——
	Burn-in bits/layer	4 bits/layer	——
	Burn-in product power	18kW/bit	——
	Burn-in product input voltage	220Vac (single phase)/380Vac (three phase)	The rated power grid
	Burn-in product input current	32A/bit	——
	Burn-in Product Load Category	15kW/bit	——
	Burn-in product load current	100-800Vdc	——
	Auxiliary voltage of Burn-in products	50A/bit	——
	Auxiliary current of Burn-in products	Universal plug (L1/ L2/ L3/N/PE)	——
	Power Connector Type	Gb DC charging interface	——
	Signal Connector Type	RJ45	——
	Bit Status Indicator	No	——
	Other functions	——	——
	Input power	288kW	——
	Feedback power	240kW	——
	Constant temperature range	Room temperature	Open
	Number of temperature control points	5	——
	Volume size	2050*600*1900mm	length*width*height
	Dimensions in the product area	1800*1600mm	L*H single-sided, open
	Product area layers	4th floor	——
	Bit space size	450*420mm	length*width*height
	Minimum floor height	250mm	——
	Top floor height	1350mm	——
	Cooling method	Air cooling	——
	Material	1.5mm cold rolled sheet	——
Trolley	Volume size	1900*500*1900mm	length*deep*height
	Layers	4th floor	——
	Layer spacing	420mm	——
	Load bearing	800kg	——
	Mobile way	Casters	——
Monitoring software	Display running information	Input voltage, current, power, output voltage (DC source module communication or product communication)	——
	Show status information	Not Connected / Vacant / Passed / Under Voltage / Under Current / Over Voltage / Over Current / No Output / Protection	——
	Display accuracy	±(1%+0.2%FS)	Double the current/power
	Control precision	±(1%+0.2%FS)	Double the current/power
	Bad way of reporting	Audible alarm	——
	Report format	CSV format	——
	Statistics	Yield/CPK/Time Distribution	——
	MES docking	Support	——
	Scan speed	5S	——
Control cabinet	Control system	Window 10	——
	Display medium	Computers and Monitors	——
	Manipulating medium	Mouse and keyboard	——
	Communication method	Cable	——
	Type of protection	Over current, leakage, over temperature, smoke, emergency stop	——
	Alarm method	Sound and light alarm, remote network	——
	Heat dissipation type	Air cooling	——
	Maintenance mode	Post maintenance	——
	Material	1.5mm cold rolled sheet	——
	Volume size	880*860*1900mm	length*width*height

Typical burn-in test system for household photovoltaic inverters
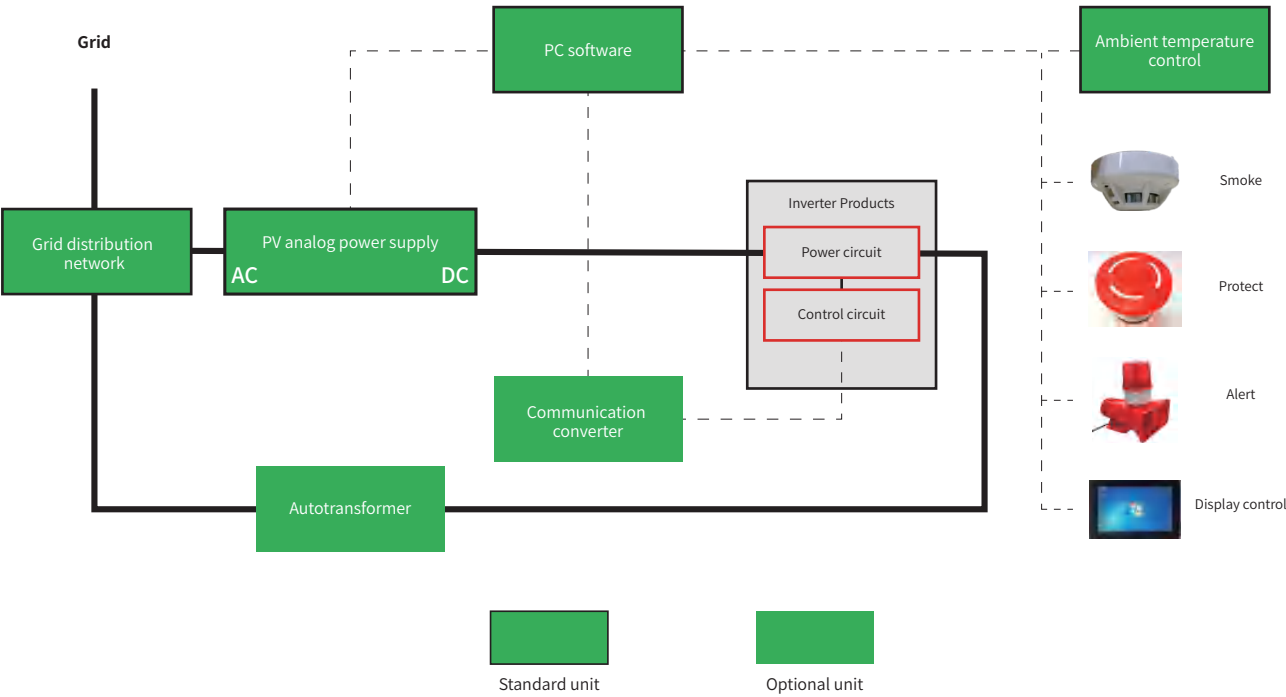
Architecture diagram

Grid		
Grid distribution network	PV analog power supply AC DC	PC software
	Communication converter	Ambient temperature control
	Autotransformer	

Inverter Products
Power circuit
Control circuit

Smoke
Protect
Alert
Display control

Standard unit   Optional unit

Category	Project	Content	Remark
System	System structure	1 control cabinet + 2 burn-in cabinets	Support independent power cabinet
	Overall size	5100*1200*2050mm	length*width*height
	Total floor area	5100*2200mm(Including operation area)	length*width
	Total input voltage	Three-phase five-wire system 220Vac (rated)	——
	Total input current	100A	——
	Total input power	50kW	——
	Application ambient temperature	0-40℃	——
	Application environment humidity	0-95%	No condensation
	Fire protection requirements	Materials meet UL 94V0 rating	——
	Environmental requirements	Materials comply with Rohs, WEEE requirements	——
	Safety requirements	Comply with IEC62368 international standard design requirements	——
Burn-in cabinet	Burn-in bits/cabinet	16 bits/cabinet	——
	Burn-in bits/layer	4 bits/layer	——
	Burn-in product input power	7kW/bit	——
	Burn-in product input voltage	50-750Vdc/bit	——
	Burn-in product input current	25A/bit	——
	Burn-in product output power	6.6kW/bit	——
	Burn-in product output voltage	220Vac/50Hz	Rated grid
	Burn-in product output current	32A/bit	——
	AC Connector Type	PA45（L/N/PE）	——
	DC Connector Type	MC4 photovoltaic connector (PV+/PV-/4 groups)	——
	Signal Connector Type	RJ45 (network port)	——
	Bit Status Indicator	No	——
	Other functions	——	——
	Input power	130kW	——
	Feedback power	105.6kW	——
	Constant temperature range	Room temperature+5℃-60℃	——
	Constant temperature accuracy	±5℃	Upgradable to ±3℃
	Number of temperature control points	5	——
	Open type	Sliding door/folding door/side door	Optional
	Volume size	2100*1200*2050mm	length*width*height
	Dimensions in the product area	1700*550*1500mm	length*width*height
	Product area layers	4	——
	Bit space size	425*550*350mm	length*width*height
	Minimum floor height	300mm	——
	Top floor height	1450mm	——
	Product area air duct direction	Left and right ventilation	——
	Cooling method	Air cooling	——
	Material	1.5mm cold rolled sheet, epoxy sheet (laminate)	——
Monitoring software	Display running information	Input voltage, current, power, output voltage (DC source module communication or product communication)	——
	Show status information	Not Connected / Vacant / Passed / Under Voltage / Under Current / Over Voltage / Over Current / No Output / Protection	——
	Display accuracy	±(1%+0.2%FS)	Double the current/power
	Control precision	±(1%+0.2%FS)	Double the current/power
	Bad way of reporting	Audible alarm	——
	Report format	CSV format	——
	Statistics	Yield/CPK/Time Distribution	——
	MES docking	Support	——
	Scan speed	5S	——
Control cabinet	Control system	Window 10	——
	Display medium	Computers and Monitors	——
	Manipulating medium	Mouse and keyboard	——
	Communication method	Cable	——
	Type of protection	Over current, leakage, over temperature, smoke, emergency stop	——
	Alarm method	Sound and light alarm, remote network	——
	Heat dissipation type	Air cooling	——
	Maintenance mode	Post maintenance	——
	Material	1.5mm cold rolled sheet	——
	Volume size	880*860*1900mm	length*width*height

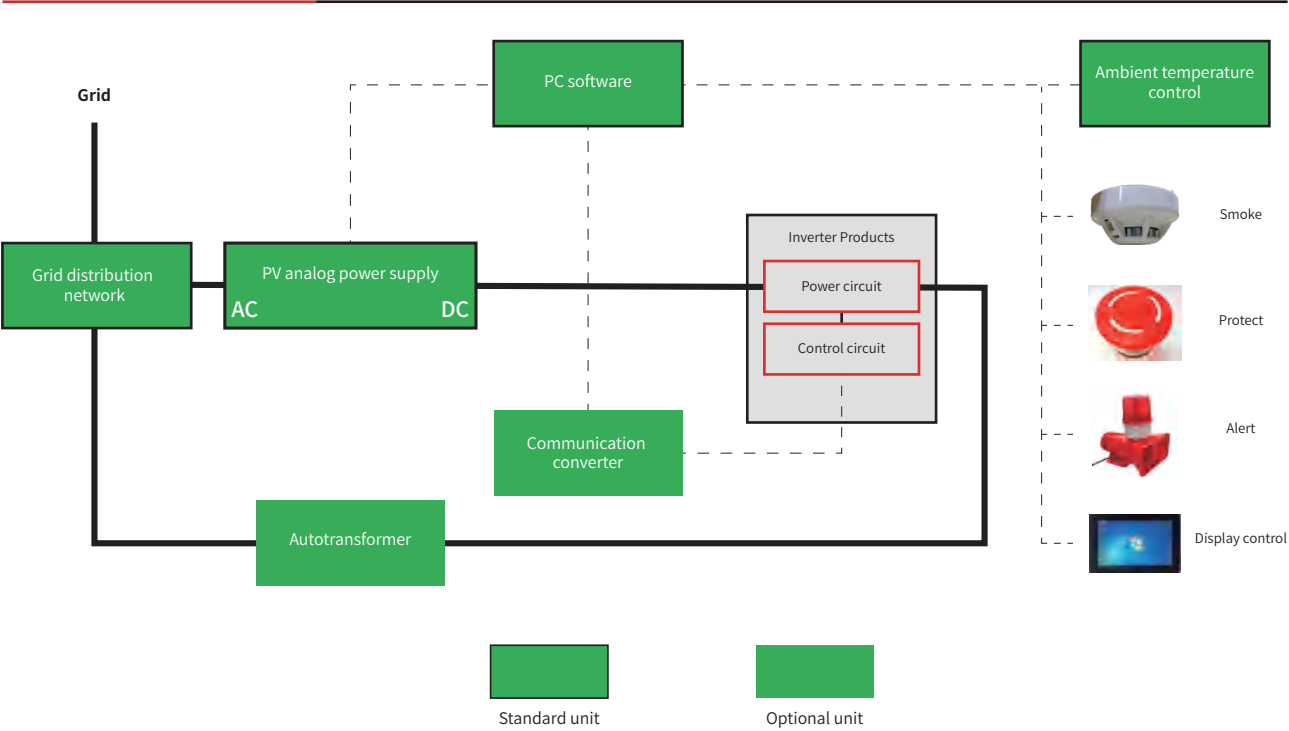## Typical burn-in test system for small string inverters

Architecture diagram

Category	Project	Content	Remark
System	System structure	1 control cabinet + 2 burn-in cabinets	Support independent load cabinet
	Overall size	5100*1500*2050mm	length*width*height
	Total floor area	5100*2500mm(Including operation area)	length*width
	Total input voltage	Three-phase five-wire system 220Vac (rated)	——
	Total input current	300A	——
	Total input power	160kW	——
	Application ambient temperature	0-40℃	——
	Application environment humidity	0-95%	No condensation
	Fire protection requirements	Materials meet UL 94V0 rating	——
	Environmental requirements	Materials comply with Rohs, WEEE requirements	——
	Safety requirements	Comply with IEC62368 international standard design requirements	——
Burn-in cabinet	Burn-in bits/cabinet	9 bits/cabinet	——
	Burn-in bits/layer	3 bits/layer	——
	Burn-in product input power	40kW/bit	——
	Burn-in product input voltage	200-1000Vdc/bit	——
	Burn-in product input current	100A/bit	——
	Burn-in product output power	35kW/bit	——
	Burn-in product output voltage	Three-phase five-wire	Rated grid
	Burn-in product output current	80A/bit	——
	AC Connector Type	PA120（L1/ L2/ L3/N/PE)	——
	DC Connector Type	MC4 photovoltaic connector (PV+/PV-/4 groups)	——
	Signal Connector Type	RJ45 (network port)	——
	Bit Status Indicator	No	——
	Other functions	——	——
	Input power	380kW	——
	Feedback power	315kW	——
	Constant temperature range	Room temperature+5℃-60℃	——
	Constant temperature accuracy	±5℃	Upgradable to ±3℃
	Number of temperature control points	5	——
	Open type	Sliding door/folding door/side door	Optional
	Volume size	2100*1500*2050mm	length*width*height
	Dimensions in the product area	1700*600*1500mm	length*width*height
	Product area layers	3	——
	Bit space size	560*550*480mm	length*width*height
	Minimum floor height	300mm	——
	Top floor height	1320mm	——
	Product area air duct direction	Left and right ventilation	——
	Cooling method	Air cooling	——
	Material	1.5mm cold rolled sheet	——
Monitoring software	Display running information	Input voltage, current, power, output voltage (DC source module communication or product communication)	——
	Show status information	Not Connected / Vacant / Passed / Under Voltage / Under Current / Over Voltage / Over Current / No Output / Protection	——
	Display accuracy	±(1%+0.2%FS)	Double the current/power
	Control precision	±(1%+0.2%FS)	Double the current/power
	Bad way of reporting	Audible alarm	——
	report format	CSV format	——
	Statistics	Yield/CPK/Time Distribution	——
	MES docking	Support	——
	Scan speed	5S	——
Control cabinet	Control system	Window 10	——
	Display medium	Computers and Monitors	——
	Manipulating medium	Mouse and keyboard	——
	Communication method	Cable	——
	Type of protection	Over current, leakage, over temperature, smoke, emergency stop	——
	Alarm method	Sound and light alarm, remote network	——
	Heat dissipation type	Air cooling	——
	Maintenance mode	Post maintenance	——
	Material	1.5mm cold rolled sheet	——
	Volume size	880*860*1900mm	length*width*height

Typical burn-in test system for large-scale string photovoltaic inverters

Architecture diagram

| Grid |
| Grid distribution network |
| PV analog power supply — AC / DC |
| Communication converter |
| Autotransformer |
| PC software |
| Inverter Products — Power circuit / Control circuit |
| Ambient temperature control |
| Smoke |
| Protect |
| Alert |
| Display control |
| Standard unit | Optional unit |

Performance parameters

Category	Project	Content	Remark
System	System structure	1 control cabinet + 6 power cabinets	Support multiple power cabinets
	Overall size	5800*860*2050mm	length*width*height
	Total floor area	5800*1800mm(Including operation area)	length*width
	Total input voltage	Three-phase five-wire system 220Vac (rated)	——
	Total input current	200A*6	——
	Total input power	100kW*6	——
	Application ambient temperature	0-40℃	——
	Application environment humidity	0-95%	No condensation
	Fire protection requirements	Materials meet UL 94V0 rating	——
	Environmental requirements	Materials comply with Rohs, WEEE requirements	——
	Safety requirements	Comply with IEC62368 international standard design requirements	——
Power supply cabinet	Units/Cabinet	4 bits/cabinet	——
	Burn-in product input power	150kW/bit	——
	Burn-in product input voltage	50-1000Vdc/bit	——
	Burn-in product input current	500A/bit	——
	Burn-in product output power	130kW/bit	——
	Burn-in product output voltage	220/380Vac/50Hz Three-phase five-wire	Rated grid
	Burn-in product output current	200A/bit	——
	AC Connector Type	PA350（L1/ L2/ L3/N/PE)	——
	DC Connector Type	MC4 photovoltaic connector (PV+/PV-/8 groups)	——
	Signal Connector Type	RJ45 (network port)	——
	Bit Status Indicator	no	——
	Other functions	——	——
	Input power	600kW	——
	Feedback power	520kW	——
	Volume size	800*800*2050mm	length*width*height
	Product area air duct direction	Forward wind, upward wind	——
	Cooling method	Air cooling	——
	Material	1.5mm cold rolled sheet	——
Monitoring software	Display running information	Input voltage, current, power, output voltage (DC source module communication or product communication)	——
	Show status information	Not Connected / Vacant / Passed / Under Voltage / Under Current / Over Voltage / Over Current / No Output / Protection	——
	Display accuracy	±(1%+0.2%FS)	Double the current/power
	Control precision	±(1%+0.2%FS)	Double the current/power
	Bad way of reporting	Audible alarm	——
	Report format	CSV format	——
	Statistics	Yield/CPK/Time Distribution	——
	MES docking	support	——
	Scan speed	5S	——
Control cabinet	Control system	Window 10	——
	Display medium	Computers and Monitors	——
	Manipulating medium	Mouse and keyboard	——
	Communication method	Cable	——
	Type of protection	Over current, leakage, over temperature, smoke, emergency stop	——
	Alarm method	Sound and light alarm, remote network	——
	Heat dissipation type	Air cooling	——
	Maintenance mode	Post maintenance	——
	Material	1.5mm cold rolled sheet	——
	Volume size	880*860*1900mm	length*width*height

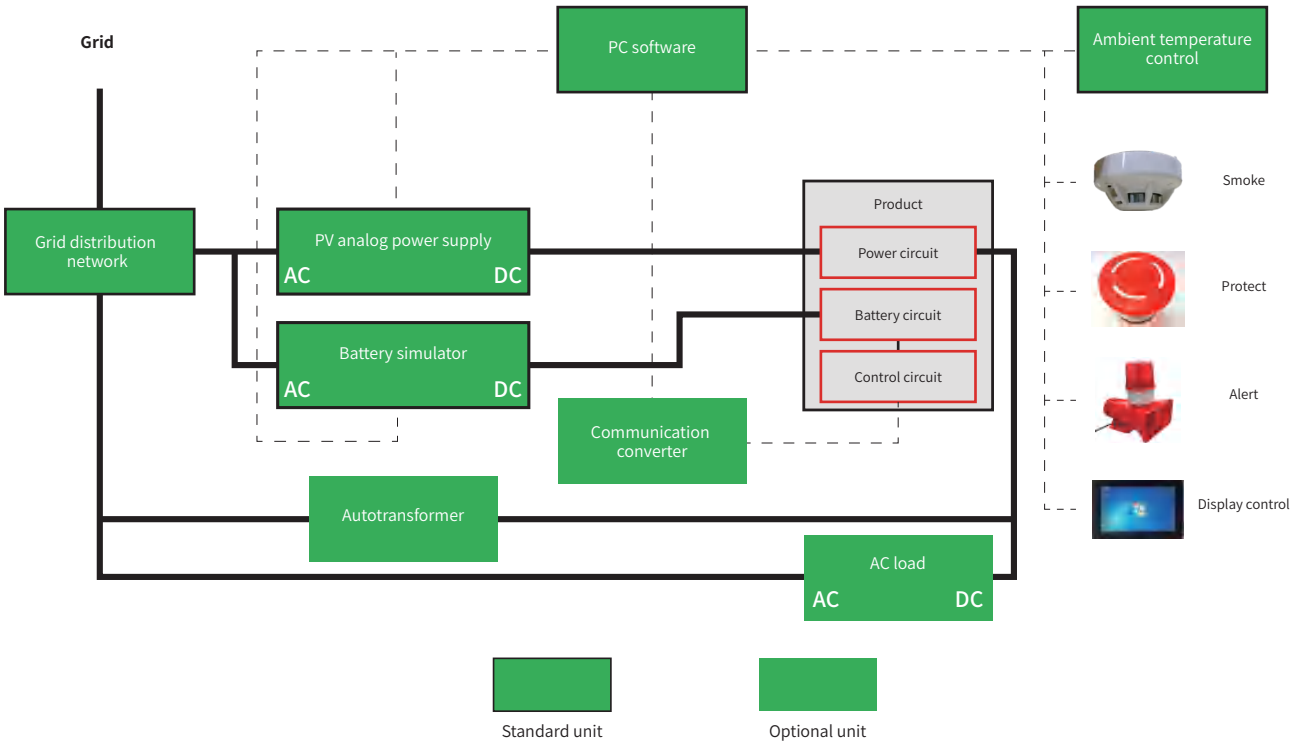## Typical burn-in test system for microinverters

Architecture diagram
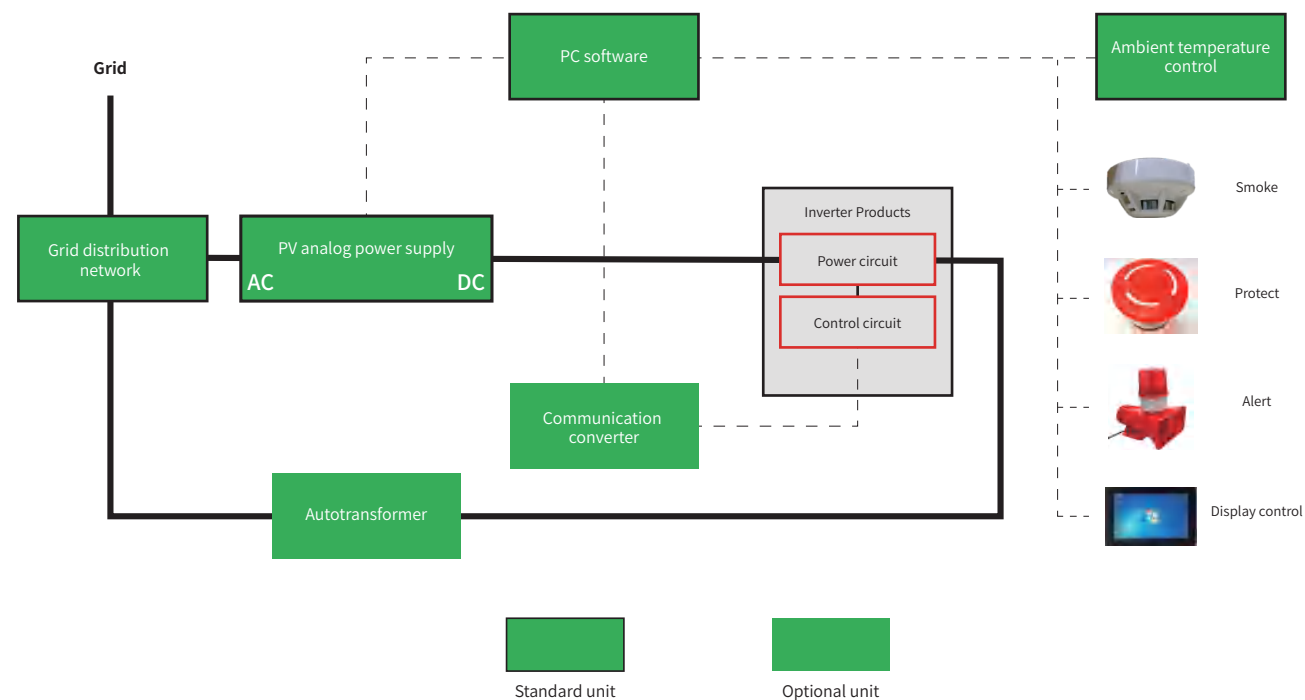
Category	Project	Content	Remark
System	System structure	1 control cabinet + 2 burn-in cabinets	——
	Overall size	5100*1050*2050mm	length*width*height
	Total floor area	5100*2000mm(Including operation area)	length*width
	Total input voltage	Three-phase five-wire system 220Vac (rated)	——
	Total input current	100A	——
	Total input power	50kW	——
	Application ambient temperature	0-40℃	——
	Application environment humidity	0-95%	No condensation
	Fire protection requirements	Materials meet UL 94V0 rating	——
	Environmental requirements	Materials comply with Rohs, WEEE requirements	——
	Safety requirements	Comply with IEC62368 international standard design requirements	——
Burn-in cabinet	Burn-in bits/cabinet	32 bits/cabinet	——
	Burn-in bits/layer	4 bits/layer	——
	Burn-in product input power	3kW/bit	——
	Burn-in product input voltage	10-60Vdc/bit	——
	Burn-in product input current	50A/bit	——
	Burn-in product output power	2.6kW/bit	——
	Burn-in product output voltage	380/220Vac/50Hz (rated)	Rated grid
	Burn-in product output current	16A/bit	——
	AC Connector Type	Aviation plug (L1/L2/ L3/N/PE)	——
	DC Connector Type	MC4 photovoltaic connector (PV+/PV-/4 groups)	——
	Signal Connector Type	RJ45 (network port)	Zigbee or PLC optional
	Bit Status Indicator	no	——
	Other functions	——	——
	Input power	105kW	——
	Feedback power	80kW	——
	Constant temperature range	Room temperature+5℃-60℃	——
	Constant temperature accuracy	±5℃	Upgradable to ±3℃
	Number of temperature control points	5	——
	Open type	Sliding door/folding door/side door	Optional
	Volume size	2100*1050*2050mm	length*width*height
	Dimensions in the product area	1700*450*1500mm	length*width*height
	Product area layers	8	——
	Bit space size	425*450*150mm	length*width*height
	Minimum floor height	300mm	——
	Top floor height	1650mm	——
	Product area air duct direction	Left and right ventilation	——
	Cooling method	Air cooling	——
	Material	1.5mm cold rolled sheet, epoxy sheet (laminate)	——
Monitoring software	Display running information	Input voltage, current, power, output voltage (DC source module communication or product communication)	——
	Show status information	Not Connected / Vacant / Passed / Under Voltage / Under Current / Over Voltage / Over Current / No Output / Protection	——
	Display accuracy	±(1%+0.2%FS)	Double the current/power
	Control precision	±(1%+0.2%FS)	Double the current/power
	Bad way of reporting	Audible alarm	——
	Report format	CSV format	——
	Statistics	Yield/CPK/Time Distribution	——
	MES docking	Support	——
	Scan speed	5S	——
Control cabinet	Control system	Window 10	——
	Display medium	Computers and Monitors	——
	Manipulating medium	Mouse and keyboard	——
	Communication method	Cable	——
	Type of protection	Over current, leakage, over temperature, smoke, emergency stop	——
	Alarm method	Sound and light alarm, remote network	——
	Heat dissipation type	Air cooling	——
	Maintenance mode	Post maintenance	——
	Material	1.5mm cold rolled sheet	——
	Volume size	880*860*1900mm	length*width*height

Typical burn-in test system of household photovoltaic storage, off-grid and integrated machine

Architecture diagram

Category	Project	Content	Remark
System	System structure	1 control cabinet + 2 burn-in cabinets	Support independent load cabinet
	Overall size	5100*1500*2050mm	length*width*height
	Total floor area	5100*2500mm(Including operation area)	length*width
	Total input voltage	Three-phase five-wire system 220Vac (rated)	——
	Total input current	60A	——
	Total input power	25kW	——
	Application ambient temperature	0-40℃	——
	Application environment humidity	0-95%	no condensation
	Fire protection requirements	Materials meet UL 94V0 rating	——
	Environmental requirements	Materials comply with Rohs, WEEE requirements	——
	Safety requirements	Comply with IEC62368 international standard design requirements	——
Burn-in cabinet	Burn-in bits/cabinet	9 bits/cabinet	——
	Burn-in bits/layer	3 bits/layer	——
	Burn-in product input power	7kW/bit	——
	Burn-in product input voltage	50-750Vdc/bit	——
	Burn-in product input current	25A/bit	——
	Burn-in product battery power	4kW/bit	——
	Burn-in product battery voltage	48Vdc (nominal)	——
	Burn-in product battery current	80A/bit	——
	Burn-in product output power	6.6kW/bit	——
	Burn-in product output voltage	220/380Vac/50Hz three-phase five-wire	Rated grid
	Burn-in product output current	32A/bit	——
	AC Connector Type	PA45（L /N/PE)	——
	DC Connector Type	MC4 photovoltaic connector (PV+/PV-/2 groups)	——
	Battery Connector Type	PA120 (BAT+/BAT-)	——
	Signal Connector Type	RJ45 (network port)	——
	Bit Status Indicator	No	——
	Other functions	——	——
	Input power	70kW	——
	Feedback power	59kW	——
	Constant temperature range	Room temperature+5℃-60℃	——
	Constant temperature accuracy	±5℃	Upgradable to ±3℃
	Number of temperature control points	5	——
	Open type	Sliding door/folding door/side door	Optional
	Volume size	2100*1500*2050mm	length*width*height
	Dimensions in the product area	1700*600*1500mm	length*width*height
	Product area layers	3	——
	Bit space size	560*550*480mm	ength*width*height
	Minimum floor height	300mm	——
	Top floor height	1320mm	——
	Product area air duct direction	Left and right ventilation	——
	Cooling method	Air cooling	——
	Material	1.5mm cold rolled sheet, epoxy sheet (laminate)	——
Monitoring software	Display running information	Input voltage, current, power, output voltage (DC source module communication or product communication)	——
	Show status information	Not Connected / Vacant / Passed / Under Voltage / Under Current / Over Voltage / Over Current / No Output / Protection	——
	Display accuracy	±(1%+0.2%FS)	Double the current/power
	Control precision	±(1%+0.2%FS)	Double the current/power
	Bad way of reporting	Audible alarm	——
	Report format	CSV format	——
	Statistics	Yield/CPK/Time Distribution	——
	MES docking	support	——
	Scan speed	5S	——
Control cabinet	Control system	Window 10	——
	Display medium	Computers and Monitors	——
	Manipulating medium	Mouse and keyboard	——
	Communication method	Cable	——
	Type of protection	Over current, leakage, over temperature, smoke, emergency stop	——
	Alarm method	Sound and light alarm, remote network	——
	Heat dissipation type	Air cooling	——
	Maintenance mode	Post maintenance	——
	Material	1.5mm cold rolled sheet	——
	Volume size	880*860*1900mm	length*width*height

# Typical burn-in test system for large photovoltaic inverters
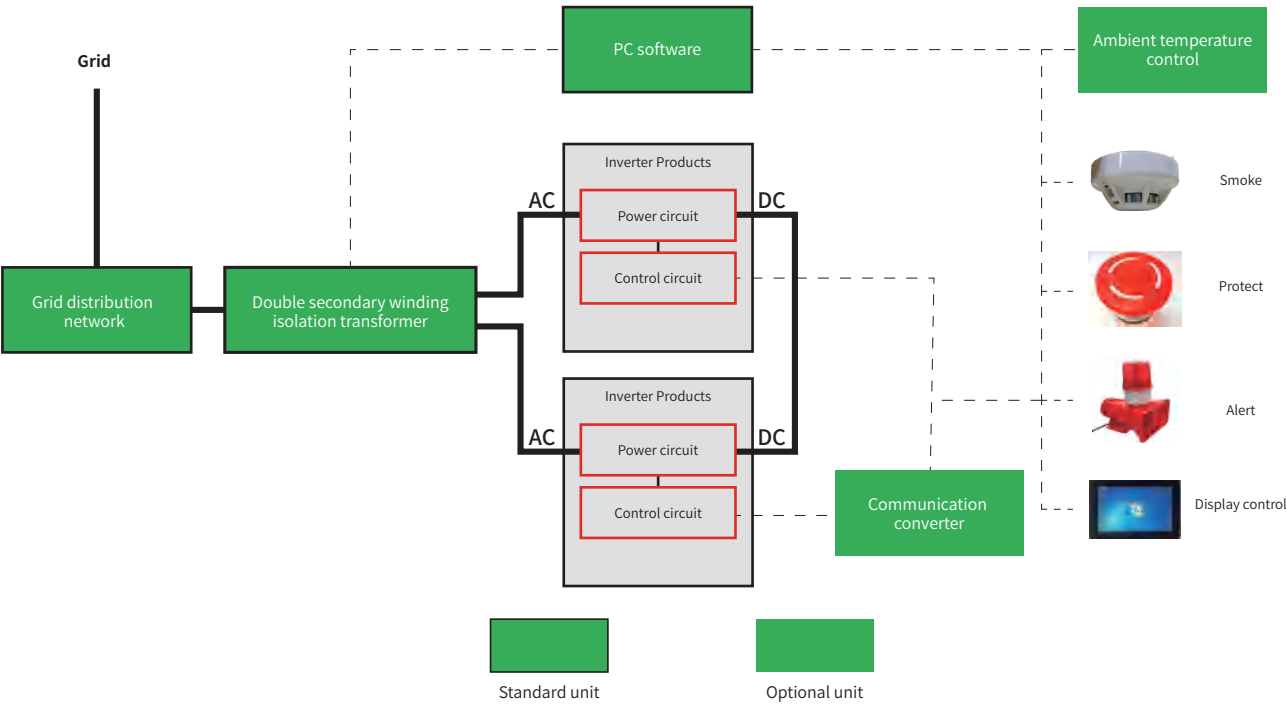
Architecture diagram

Category	Project	Content	Remark
System	System structure	1 control cabinet + 2 transformer cabinets	Support multiple power cabinets
	Overall size	3500*1200*1900mm	length*width*height
	Total floor area	3500*1500mm(Including operation area)	length*width
	Total input voltage	Three-phase five-wire system 220Vac (rated)	——
	Total input current	200A*2	——
	Total input power	100kW*2	——
	Application ambient temperature	0-40℃	——
	Application environment humidity	0-95%	No condensation
	Fire protection requirements	Materials meet UL 94V0 rating	——
	Environmental requirements	Materials comply with Rohs, WEEE requirements	——
	Safety requirements	Comply with IEC62368 international standard design requirements	——
Transformer Cabinet	Units/Cabinet	2 bits/cabinet	——
	Burn-in product input power	550kW/bit	——
	Burn-in product input voltage	270/315/380/480/800Vac	——
	Burn-in product input current	1000A/bit	——
	Burn-in product output power	500kW/bit	——
	Burn-in product output voltage	270/315/380/480/800Vac	Rated grid
	Burn-in product output current	1000A/bit	——
	Input winding voltage	Three-phase 380Vac rated	——
	Input winding current	200A	——
	AC Connector Type	Bolt bronze	——
	Signal Connector Type	RJ45 (network port)	——
	Other functions	——	——
	Input power	100kW	——
	Feedback power	500kW	——
	Volume size	1200*1200*1900mm	length*width*height
	Product area air duct direction	Downwind, upwind	——
	Cooling method	Air cooling	——
	Material	2.0mm cold rolled sheet	——
Monitoring software	Display running information	Input voltage, current, power, output voltage (DC source module communication or product communication)	——
	Show status information	Not Connected / Vacant / Passed / Under Voltage / Under Current / Over Voltage / Over Current / No Output / Protection	——
	Display accuracy	±(1%+0.2%FS)	Double the current/power
	Control precision	±(1%+0.2%FS)	Double the current/power
	Bad way of reporting	Audible alarm	——
	Report format	CSV format	——
	Statistics	Yield/CPK/Time Distribution	——
	MES docking	Support	——
	Scan speed	5S	——
Control cabinet	Output Power	5kW	——
	Control system	Window 10	——
	Display medium	Computers and Monitors	——
	Manipulating medium	Mouse and keyboard	——
	Communication method	Cable	——
	Type of protection	Over current, leakage, over temperature, smoke, emergency stop	——
	Alarm method	Sound and light alarm, remote network	——
	Heat dissipation type	Air cooling	——
	Maintenance mode	Post maintenance	——
	Material	1.5mm cold rolled sheet	——
	Volume size	880*860*1900mm	length*width*height

Typical burn-in test system for large-scale energy storage converters

Architecture diagram
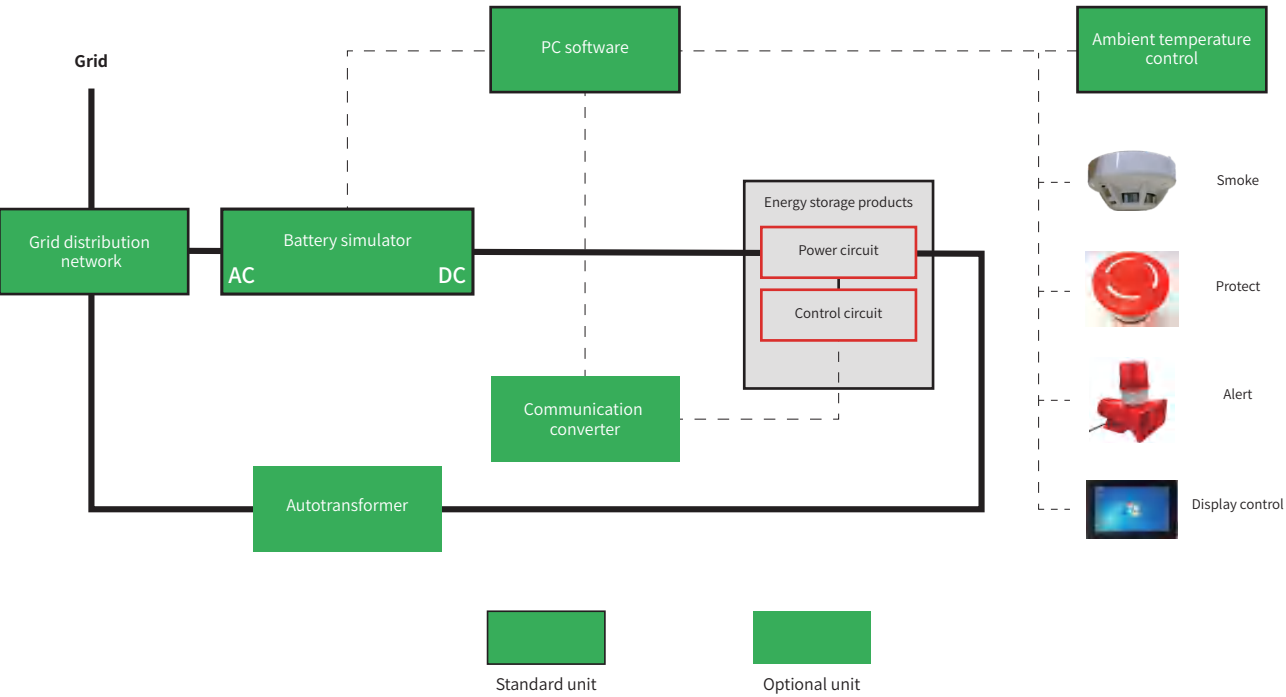
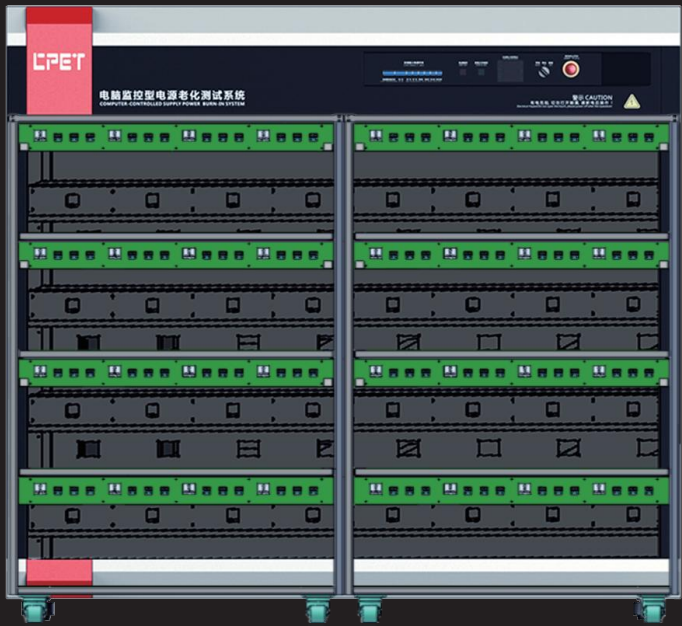| Category	Project	Content	Remark
System	System structure	1 control cabinet + 6 two-way source load cabinets	Support multiple power cabinets
	Overall size	5800*860*2050mm	length*width*height
	Total floor area	5800*1800mm(Including operation area)	length*width
	Total input voltage	Three-phase five-wire system 220Vac (rated)	——
	Total input current	100A*6	——
	Total input power	50kW*6	——
	Application ambient temperature	0-40℃	——
	Application environment humidity	0-95%	No condensation
	Fire protection requirements	Materials meet UL 94V0 rating	——
	Environmental requirements	Materials comply with Rohs, WEEE requirements	——
	Safety requirements	Comply with IEC62368 international standard design requirements	——
Two-way source carrier	Units/Cabinet	2 bits/cabinet	——
	Burn-in product DC power	150kW/bit	——
	Burn-in product DC voltage	150-800Vdc	——
	Burn-in product DC current	500A/bit	——
	Burn-in product AC power	150kW/bit	——
	Burn-in products AC voltage	220/380Vac/50Hz Three-phase five-wire	Optional transformer
	Burn-in product AC current	300A/bit	——
	AC Connector Type	PA350（L1/ L2/ L3/N/PE)	——
	DC Connector Type	DC bronze medal	——
	Signal Connector Type	RJ45 (network port)	——
	Bit Status Indicator	No	——
	Other functions	——	——
	Input power	300kW	——
	Feedback power	280kW	——
	Volume size	800*800*2050mm	length*width*height
	Product area air duct direction	Forward wind, upward wind	——
	Cooling method	Air cooling	——
	Material	1.5mm cold rolled sheet	——
Monitoring software	Display running information	Input voltage, current, power, output voltage (DC source module communication or product communication)	——
	Show status information	Not Connected / Vacant / Passed / Under Voltage / Under Current / Over Voltage / Over Current / No Output / Protection	——
	Display accuracy	±(1%+0.2%FS)	Double the current/power
	Control precision	±(1%+0.2%FS)	Double the current/power
	Bad way of reporting	Audible alarm	——
	Report format	CSV format	——
	Statistics	Yield/CPK/Time Distribution	——
	MES docking	Support	——
	Scan speed	5S	——
Control cabinet	Output Power	5kW	——
	Control system	Window 10	——
	Display medium	Computers and Monitors	——
	Manipulating medium	Mouse and keyboard	——
	Communication method	Cable	——
	Type of protection	Over current, leakage, over temperature, smoke, emergency stop	——
	Alarm method	Sound and light alarm, remote network	——
	Heat dissipation type	Air cooling	——
	Maintenance mode	Post maintenance	——
	Material	1.5mm cold rolled sheet	——
	Volume size	880*860*1900mm	length*width*height

With the improvement of people's living standards, there is a strong demand for mobile power supply, uninterrupted power supply and new energy power supply, and the demand for portable energy storage and battery power supply products is increasing. CPET has introduced battery charging control, battery discharge control, charge collection and detection, discharge collection and detection and other solutions for built-in energy storage products, which have been widely used in mobile power supply, electronic cigarettes, consumer batteries, mobile energy storage, uninterruptable power supply (UPS) and other product fields.

CPET has a strong customization capability in the built-in energy storage intelligent burn-in test system, which can support the customization of AC charging, DC charging, AC discharge, DC discharge, AC-DC mixed discharge and other burn-in modes.

CPET intelligent burn-in test system is committed to creating a smart and clean world. Through the use of digital control, soft switch, inverter feedback and other industry leading technologies, constantly introduce more efficient, more intelligent and more reliable products, truly practice the concept of "green energy saving, pollution reduction and emission reduction", and contribute to the development of industrial manufacturing and the governance of ecological environment.

Advantageous features

Excellent energy saving

Maximum conversion efficiency (module) ≥95%	Soft switch efficient conversion technology
Maximum power factor ≥0.99	Power factor correction technology
THDI≤3%@full load	Intelligent sleep technology, reduce standby loss

Excellent performance

Current accuracy: ≤±(2%+0.4%FS)	Communication delay: ≤10mS
Voltage accuracy: ≤±(1%+0.2%FS)	Temperature control accuracy: ≤±5℃

Excellent intelligence

Programmable burn-in test timing	Intelligent quality data analysis and comparison
Whole process automatic timing switch	Intelligent equipment management and maintenance monitoring
Whole process data is recorded in real time	Network interconnection, remote monitoring, remote upgrade

Outstanding quality

Perfect protection mechanism, up to 12 double protection	Comply with international safety certification design, to provide security
More than ten years of industry accumulation, casting professional quality	Select international famous brand components to ensure the quality of incoming materials

PORTABLE ENERGY STORAGE INTELLIGENT BURN-IN TEST SYSTEM

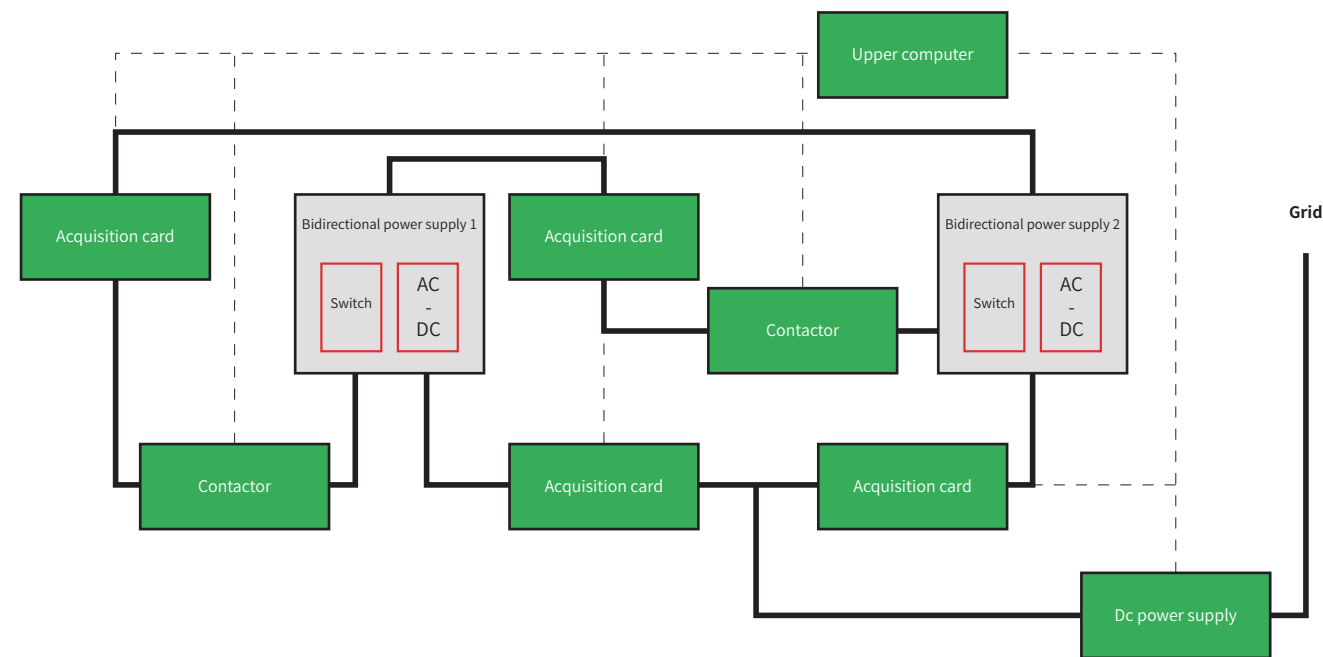## Energy-saving feedback type portable outdoor energy storage power Burn-in cabinet
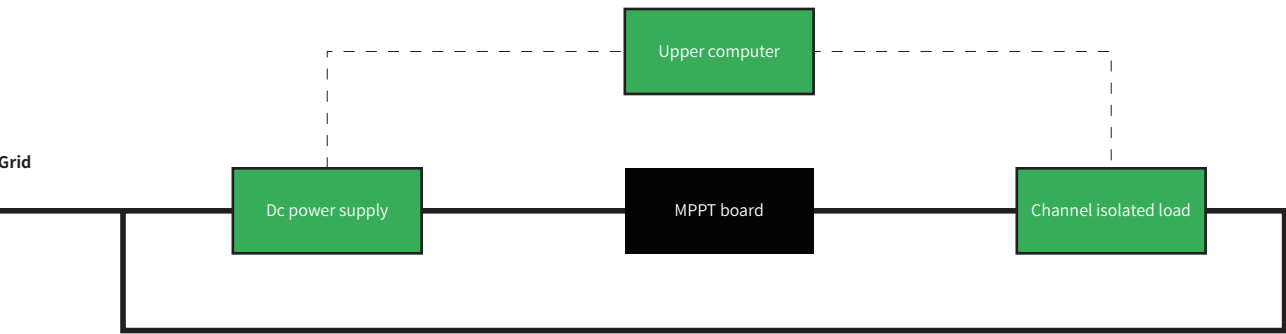
Burn-in cabinet structure and Burn-in quantity planning	Trolley size (mm)	L2050*W700*H2050mm (size of a single Burn-in cabinet)
	Number of trolley layers	4 layers, product area depth 400mm, (6 Burn-in positions per layer)
	Trolley height	350mm
	Trolley structure material/appearance color	2.0mm thick cold rolled sheet, computer white
	Load area cooling method	Top turbine exhaust fan top row type (easy to control the ambient temperature)
	Layer insulation and anti-static method	Epoxy insulation board with heat dissipation holes on the surface
	Overall burn-in room structure	Adopt mobile Burn-in split cabinet; beautiful appearance and easy to move and combine
Introduction to energy recovery module configuration, power of the tested power supply and Burn-in quantity	Energy recovery module control method	RS485 communication mode, upper computer RS232 communication mode
	Install energy consumption module model	CP8102/CP8104
	Number of installed energy consumption modules	Each layer has 6 4CH modules, and 24 modules need to be installed in the whole burn-in cabinet
	Install energy recovery module model	CP8401+CP5312 (see instructions for specifications)
	Energy recovery module isolation method	Electronic load module channel adopts photoelectric isolation (communication and power supply isolation)
	Number of installed energy recovery modules	Three 4CH energy recovery modules are installed on each floor, 12 modules need to be installed in the entire burn-in cabinet, and 6 single-phase 5KW inverter modules need to be installed
	Energy recovery module design framework	No relay, long-life design scheme (independent intellectual property rights)
	Number of burn-in products in the whole cabinet	24 energy storage power supplies with eight DC outputs (50W/100V/5A) and AC outputs (220V/500W) are aged in one cabinet
Introduction of electric control and temperature control device for power Burn-in cabinet	Wiring	Customer specified interface; input port is pin socket
	Panel function keys	Input AC voltage display, start switch, emergency stop switch
	Trolley power distribution and control mode	380V three-phase five-wire distribution; Computer monitoring and automatic electric control
	Trolley power distribution	A single burn-in cabinet is 1200W*24/0.85≈34KW, and the measured power efficiency is calculated as 85%
	Way to control	The electric control includes manual/automatic switching, which is monitored by the computer in real time when burn-in. The electric control cabinet can extend the automatic switching function of AC voltage
	Safety protection	Equipment grounding protection, leakage switch protection, smoke alarm automatic power-off protection, etc.
Introduction to the main functions of the system	Applicable to energy storage power LED power supply, charger, industrial power supply, display power supply, medical power supply and so on power burn-in	
	Free configuration of self-developed special monitoring software for power Burn-in, with independent intellectual property rights and no legal risks	
	Use programmable electronic load module to monitor output terminal voltage, current and power parameters	
	Dedicated monitoring software for Burn-in enjoys free final upgrade service, powerful expansion function, saving repeated investment in equipment	
	Burn-in parameters, time setting, ON/OFF sequence editing (test of the product being tested on and off), support for automatic voltage switching, load conversion and other functions can be programmed (Burn-in parameters can be automatically switched in a fixed time period)	
	The function of automatically turning off the power at the end of the Burn-in of the tested power supply is convenient for unattended	
	The computer automatically displays the quality of the tested power supply product, and multiple windows in the window are convenient for centralized management, which saves operators and improves production efficiency	
	The computer can store the Burn-in data report of the tested power supply, the process parameters of the tested power supply are easy to trace; in addition, it has barcode scanning and supports MES system upload	
	RS232 to RS485 adopts photoelectric isolation converter to improve communication reliability and prevent lightning damage to equipment	
	Each computer can monitor 18 devices at the same time, (each serial port can connect to 63 slaves, and each computer supports up to 18 serial ports)	
	The power Burn-in monitoring software has a built-in help file, which is convenient for solving operation questions immediately	

Energy saving feedback type bidirectional inverter Burn-in cabinet
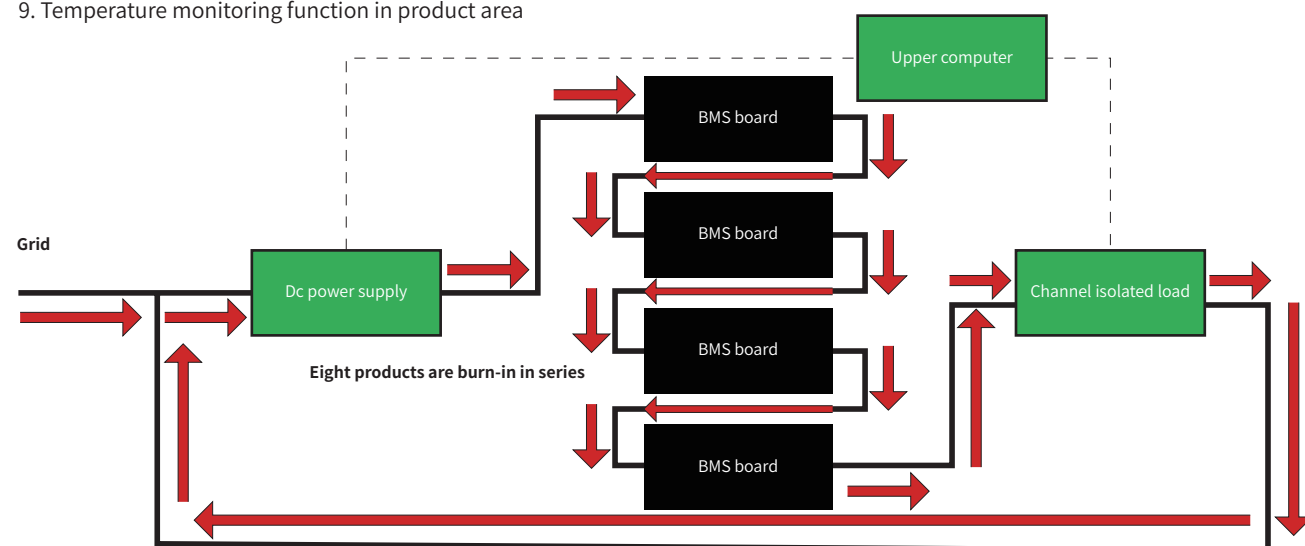
Burn-in cabinet structure and Burn-in quantity planning	Trolley size (mm)	L2050*W1250*H2050mm (size of a single Burn-in cabinet)
	Number of trolley layers	6 layers, product area depth 400mm, (6 Burn-in positions per layer)
	Trolley height	175mm
	Trolley structure material/appearance color	2.0mm thick cold rolled sheet, computer white
	Load area cooling method	Top turbine exhaust fan top row type (easy to control the ambient temperature)
	Layer insulation and anti-static method	Epoxy insulation board with heat dissipation holes on the surface
	Overall burn-in room structure	Adopt mobile Burn-in split cabinet; beautiful appearance and easy to move and combine
Introduction to energy recovery module configuration, power of the tested power supply and Burn-in quantity	Energy recovery module control method	RS485 communication mode, upper computer uses RS232 communication mode
	Product burn-in mode	The burn-in process of the product is carried out by the way of relative drag
	Dc power isolation mode	Dc power channel adopts photoelectric isolation (communication and power supply isolation)
	Energy recovery module design architecture	No relay, long life design scheme (independent intellectual property rights)
Introduction of electric control and temperature control device for power Burn-in cabinet	Wiring	Customer specified interface; Input/output port Anderson connector
	Panel function keys	Input AC voltage display, start switch, emergency stop switch
	Trolley power distribution and control mode	380V three-phase five-wire distribution; Computer monitoring and automatic electric control
	Trolley power distribution	A single burn-in cabinet is 3000W*36/0.85≈127KW, and the measured power efficiency is calculated as 85%
	Way to control	The electric control includes manual/automatic switching, which is monitored by the computer in real time when burn-in. The electric control cabinet can extend the automatic switching function of AC voltage
	Safety protection	Equipment grounding protection, leakage switch protection, smoke alarm automatic power-off protection, etc.
Introduction to the main functions of the system	Applicable to energy storage power LED power supply, charger, industrial power supply, display power supply, medical power supply and so on	
	Free configuration of self-developed special monitoring software for power Burn-in, with independent intellectual property rights and no legal risks	
	Use programmable electronic load module to monitor output terminal voltage, current and power parameters	
	Dedicated monitoring software for Burn-in enjoys free final upgrade service, powerful expansion function, saving repeated investment in equipment	
	Burn-in parameters, time setting, ON/OFF sequence editing (test of the product being tested on and off), support for automatic voltage switching, load conversion and other functions can be programmed (Burn-in parameters can be automatically switched in a fixed time period)	
	The function of automatically turning off the power at the end of the Burn-in of the tested power supply is convenient for unattended	
	The computer automatically displays the quality of the tested power supply product, and multiple windows in the window are convenient for centralized management, which saves operators and improves production efficiency	
	The computer can store the Burn-in data report of the tested power supply, the process parameters of the tested power supply are easy to trace; in	
	RS232 to RS485 adopts photoelectric isolation converter to improve communication reliability and prevent lightning damage to equipment	
	Each computer can monitor 18 devices at the same time, (each serial port can connect to 63 slaves, and each computer supports up to 18 serial ports)	
	The power Burn-in monitoring software has a built-in help file, which is convenient for solving operation questions immediately	

Energy saving feedback MPPT controller burn-in cabinet

Outstanding functions

1. The software sets load parameters and monitors the voltage, current, and power parameters in real time
2. CC, CV, CR, CP load modes
3. Parallel channels can be used in CC load mode to meet product power expansion
4. Built-in automatic protection device for overtemperature and smoke alarm
5. Can edit switch timing, load transformation function
6. Use it with the power burn-in monitoring software
7. A variety of laminate structures are optional in the product area, which is more convenient to operate for different products
8. Automatic voltage switching function
9. Temperature monitoring function in product area
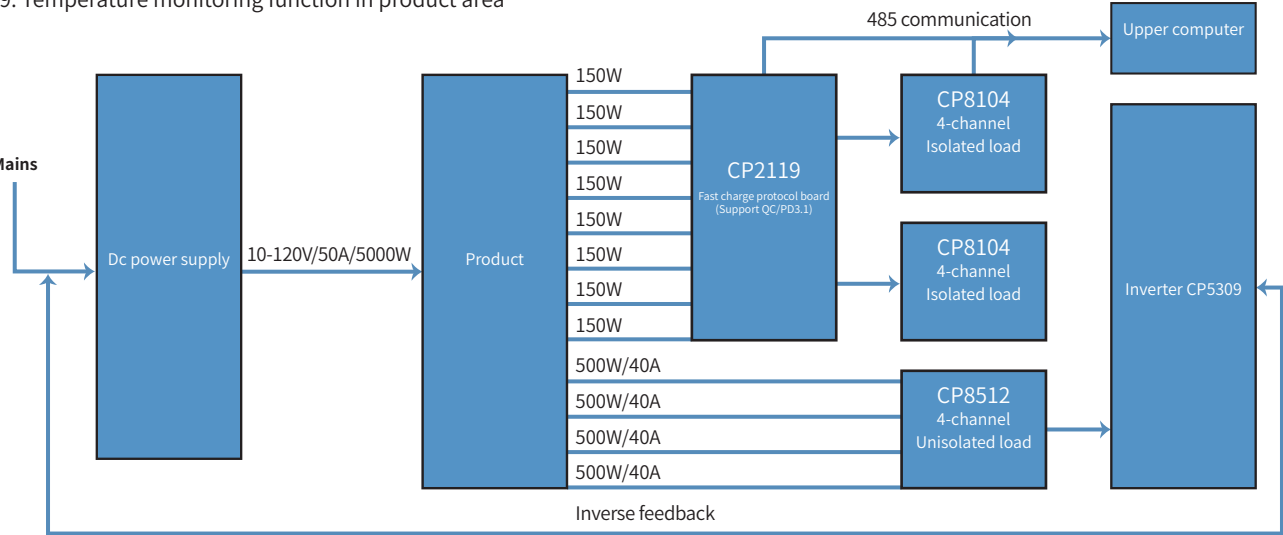

Performance parameters

Burn-in cabinet structure and Burn-in quantity planning	Trolley size (mm)	L2050*W1250*H2050mm (size of a single Burn-in cabinet)
	Number of trolley layers	4 layers, product area depth 400mm, (6 Burn-in positions per layer)
	Trolley height	280mm
	Trolley structure material/appearance color	2.0mm thick cold rolled sheet, computer white
	Load area cooling method	Top turbine exhaust fan top row type (easy to control the ambient temperature)
	Layer insulation and anti-static method	Epoxy insulation board with heat dissipation holes on the surface
	Overall burn-in room structure	Adopt mobile Burn-in split cabinet; beautiful appearance and easy to move and combine
Introduction to energy recovery module configuration, power of the tested power supply and Burn-in quantity	Energy recovery module control mode	RS485 communication mode, upper computer uses RS232 communication mode
	Energy recovery module isolation mode	Electronic load module channel adopts photoelectric isolation (communication and power supply isolation)
	Install the skill module model	CP8601, 24PCS in one cabinet
	Number of installed DC source modules	Each burn-in cabinet is configured with six 10-120V /200A /20KW DC power modules
	Energy recovery module carrying capacity	Load capacity: 2.5-60Vdc/0.5-240A/3.2kW (voltage, current adjustable)
	Energy recovery module design architecture	No relay, long life design scheme (independent intellectual property rights)
	Number of burn-in products in the entire cabinet	One cabinet burn-in MTTP modules of less than 3.2KW 24PCS
Introduction of electric control and temperature control device for power Burn-in cabinet	Wiring	Customer specified interface; input port is pin socket
	Panel function keys	Input AC voltage display, start switch, emergency stop switch
	Trolley power distribution and control mode	380V three-phase five-wire distribution; Computer monitoring and automatic electric control
	Trolley power distribution	A single burn-in cabinet is 3200W*24/0.85≈96KW, and the measured power efficiency is calculated as 85%
	Way to control	The electric control includes manual/automatic switching, which is monitored by the computer in real time when burn-in. The electric control cabinet can extend the automatic switching function of AC voltage
	Safety protection	Equipment grounding protection, leakage switch protection, smoke alarm automatic power-off protection, etc.
Introduction to the main functions of the system	Suitable for MPPT controller DC to DC power supply burn-in	
	Free configuration of self-developed special monitoring software for power Burn-in, with independent intellectual property rights and no legal risks	
	Use programmable electronic load module to monitor output terminal voltage, current and power parameters	
	Dedicated monitoring software for Burn-in enjoys free final upgrade service, powerful expansion function, saving repeated investment in equipment	
	Burn-in parameters, time setting, ON/OFF sequence editing (test of the product being tested on and off), support for automatic voltage switching, load conversion and other functions can be programmed (Burn-in parameters can be automatically switched in a fixed time period)	
	The function of automatically turning off the power at the end of the Burn-in of the tested power supply is convenient for unattended	
	The computer automatically displays the quality of the tested power supply product, and multiple windows in the window are convenient for centralized management, which saves operators and improves production efficiency	
	The computer can store the Burn-in data report of the tested power supply, the process parameters of the tested power supply are easy to trace; in addition, it has barcode scanning and supports MES system upload	
	RS232 to RS485 adopts photoelectric isolation converter to improve communication reliability and prevent lightning damage to equipment	
	Each computer can monitor 18 devices at the same time, (each serial port can connect to 63 slaves, and each computer supports up to 18 serial ports)	
	The power Burn-in monitoring software has a built-in help file, which is convenient for solving operation questions immediately	

Energy saving feedback BMS controller burn-in cabinet

Outstanding functions

1. The software sets load parameters and monitors the voltage, current, and power parameters in real time
2. CC, CV, CR, CP load modes
3. Parallel channels can be used in CC load mode to meet product power expansion
4. Built-in automatic protection device for overtemperature and smoke alarm
5. Can edit switch timing, load transformation function
6. Use it with the power burn-in monitoring software
7. A variety of laminate structures are optional in the product area, which is more convenient to operate for different products
8. Automatic voltage switching function
9. Temperature monitoring function in product area
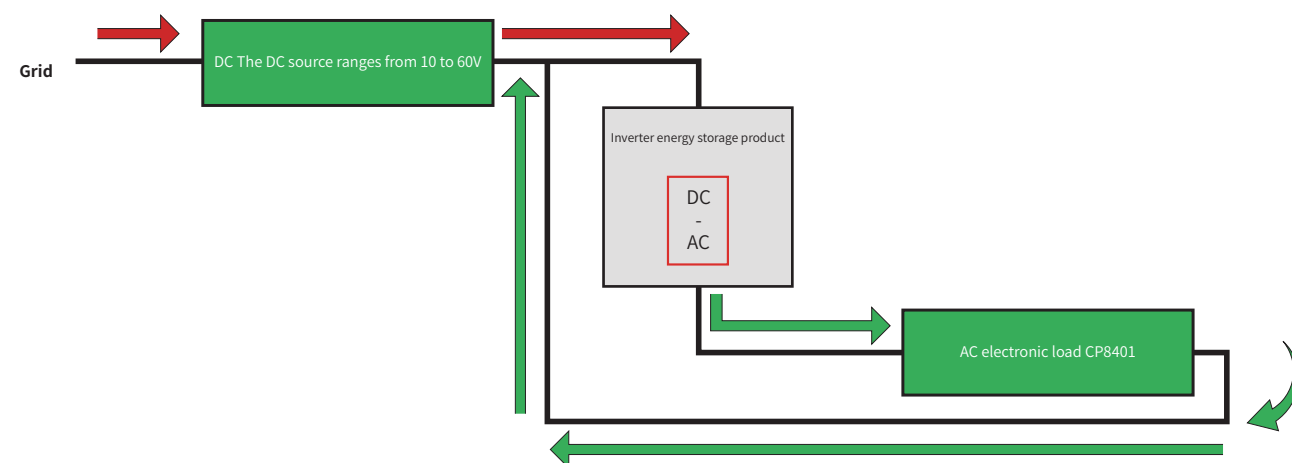

Burn-in cabinet structure and Burn-in quantity planning	Trolley size (mm)	L2050*W1250*H2050mm (size of a single Burn-in cabinet)
	Number of trolley layers	6 layers, product area depth 400mm, (8 Burn-in positions per layer)
	Trolley height	175mm
	Trolley structure material/appearance color	2.0mm thick cold rolled sheet, computer white
	Load area cooling method	Top turbine exhaust fan top row type (easy to control the ambient temperature)
	Layer insulation and anti-static method	Epoxy insulation board with heat dissipation holes on the surface
	Overall burn-in room structure	Adopt mobile Burn-in split cabinet; beautiful appearance and easy to move and combine
Introduction to energy recovery module configuration, power of the tested power supply and Burn-in quantity	Energy recovery module control mode	RS485 communication mode, upper computer RS232 communication mode
	Install the skill module model	CP8601, 8PCS in a single cabinet
	Dc power supply capability	10-100Vdc/1-30A/3kW (adjustable voltage and current)
	Energy recovery module isolation mode	Electronic load module channel adopts photoelectric isolation (communication and power supply isolation)
	Energy recovery module carrying capacity	Load capacity: 2.5-60Vdc/0.5-240A/3.2kW (voltage, current adjustable)
	Number of installed DC source modules	Each burn-in cabinet is configured with 24 DC power modules
	Energy recovery module design architecture	No relay, long-life design scheme (independent intellectual property rights)
	Number of burn-in products in the whole cabinet	48 BMS controllers less than 3.2KW are aged in one cabinet
Introduction of electric control and temperature control device for power Burn-in cabinet	Wiring	Customer specified interface; input port is pin socket
	Panel function keys	Input AC voltage display, start switch, emergency stop switch
	Trolley power distribution and control mode	380V three-phase five-wire distribution; Computer monitoring and automatic electric control
	Trolley power distribution	A single burn-in cabinet is 3000W*8/0.85≈23KW, and the measured power efficiency is calculated as 85%
	Way to control	The electric control includes manual/automatic switching, which is monitored by the computer in real time when burn-in. The electric control cabinet can extend the automatic switching function of AC voltage
	Safety protection	Equipment grounding protection, leakage switch protection, smoke alarm automatic power-off protection, etc.
Introduction to the main functions of the system	Suitable for BMS controller DC to DC series power supply burn-in	
	Free configuration of self-developed special monitoring software for power Burn-in, with independent intellectual property rights and no legal risks	
	Use programmable electronic load module to monitor output terminal voltage, current and power parameters	
	Dedicated monitoring software for Burn-in enjoys free final upgrade service, powerful expansion function, saving repeated investment in equipment	
	Burn-in parameters, time setting, ON/OFF sequence editing (test of the product being tested on and off), support for automatic voltage switching, load conversion and other functions can be programmed (Burn-in parameters can be automatically switched in a fixed time period)	
	The function of automatically turning off the power at the end of the Burn-in of the tested power supply is convenient for unattended	
	The computer automatically displays the quality of the tested power supply product, and multiple windows in the window are convenient for centralized management, which saves operators and improves production efficiency	
	The computer can store the Burn-in data report of the tested power supply, the process parameters of the tested power supply are easy to trace; in addition, it has barcode scanning and supports MES system upload	
	RS232 to RS485 adopts photoelectric isolation converter to improve communication reliability and prevent lightning damage to equipment	
	Each computer can monitor 18 devices at the same time, (each serial port can connect to 63 slaves, and each computer supports up to 18 serial ports)	
	The power Burn-in monitoring software has a built-in help file, which is convenient for solving operation questions immediately	

Energy-saving feedback DC main control board burn-in cabinet

Outstanding functions

1. The software sets load parameters and monitors the voltage, current, and power parameters in real time
2. CC, CV, CR, CP load modes
3. Parallel channels can be used in CC load mode to meet product power expansion
4. Built-in automatic protection device for overtemperature and smoke alarm
5. Can edit switch timing, load transformation function
6. Use it with the power burn-in monitoring software
7. A variety of laminate structures are optional in the product area, which is more convenient to operate for different products
8. Automatic voltage switching function
9. Temperature monitoring function in product area

Performance parameters

Burn-in cabinet structure and Burn-in quantity planning	Trolley size (mm)	L2050*W1250*H2050mm (size of a single Burn-in cabinet)
	Number of trolley layers	4 layers, product area depth 400mm, (6 Burn-in positions per layer)
	Trolley height	175mm
	Trolley structure material/appearance color	2.0mm thick cold rolled sheet, computer white
	Load area cooling method	Top turbine exhaust fan top row type (easy to control the ambient temperature)
	Layer insulation and anti-static method	Epoxy insulation board with heat dissipation holes on the surface
	Overall burn-in room structure	Adopt mobile Burn-in split cabinet; beautiful appearance and easy to move and combine
Introduction to energy recovery module configuration, power of the tested power supply and Burn-in quantity	Energy recovery module control mode	RS485 communication mode, upper computer uses RS232 communication mode
	Dc power supply capability	10-100Vdc/1-30A/3kW (adjustable voltage and current)
	Electronic load module isolation mode	Electronic load module channel adopts photoelectric isolation (communication and power supply isolation)
	Electronic load carrying capacity	8 channels 1-400Vdc/10A/150W(support QC3.0\PD3.1),4 channels 3-60VDC /40A/500W
	Number of installed electronic loads	1. A single burn-in cabinet is configured with CP8104/48 sets; 2. A single burn-in cabinet is configured with CP8512/24 sets;
	Energy recovery module design architecture	No relay, long life design scheme (independent intellectual property rights)
	Number of burn-in products in the entire cabinet	48 BMS controllers less than 3.2KW are aged in one cabinet
Introduction of electric control and temperature control device for power Burn-in cabinet	Wiring	Customer specified interface; input port is pin socket
	Panel function keys	Input AC voltage display, start switch, emergency stop switch
	Trolley power distribution and control mode	380V three-phase five-wire distribution; Computer monitoring and automatic electric control
	Trolley power distribution	A single burn-in cabinet is 3000W*8/0.85≈23KW, and the measured power efficiency is calculated as 85%
	Way to control	The electric control includes manual/automatic switching, which is monitored by the computer in real time when burn-in. The electric control cabinet can extend the automatic switching function of AC voltage
	Safety protection	Equipment grounding protection, leakage switch protection, smoke alarm automatic power-off protection, etc.
Introduction to the main functions of the system	Suitable for BMS controller DC to DC series power supply burn-in	
	Free configuration of self-developed special monitoring software for power Burn-in, with independent intellectual property rights and no legal risks	
	Use programmable electronic load module to monitor output terminal voltage, current and power parameters	
	Dedicated monitoring software for Burn-in enjoys free final upgrade service, powerful expansion function, saving repeated investment in equipment	
	Burn-in parameters, time setting, ON/OFF sequence editing (test of the product being tested on and off), support for automatic voltage switching, load conversion and otherfunctions can be programmed (Burn-in parameters can be automatically switched in a fixed time period)	
	The function of automatically turning off the power at the end of the Burn-in of the tested power supply is convenient for unattended	
	The computer automatically displays the quality of the tested power supply product, and multiple windows in the window are convenient for centralized management, which saves operators and improves production efficiency	
	The computer can store the Burn-in data report of the tested power supply, the process parameters of the tested power supply are easy to trace; in addition, it has barcode scanning and supports MES system upload	
	RS232 to RS485 adopts photoelectric isolation converter to improve communication reliability and prevent lightning damage to equipment	
	Each computer can monitor 18 devices at the same time, (each serial port can connect to 63 slaves, and each computer supports up to 18 serial ports)	
	The power Burn-in monitoring software has a built-in help file, which is convenient for solving operation questions immediately	

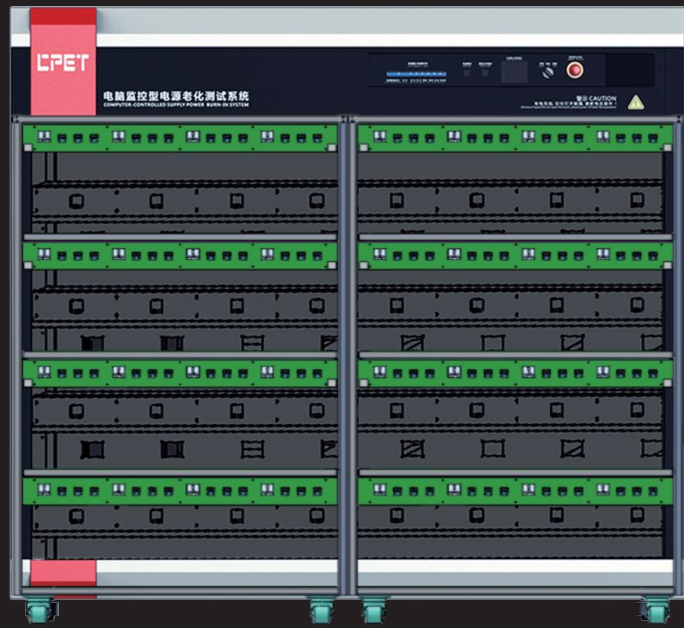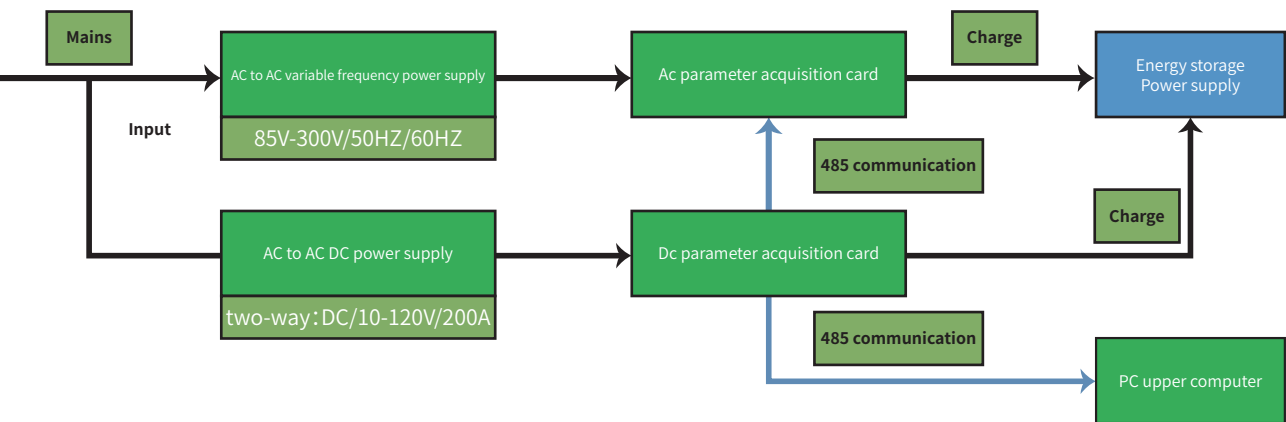# Energy saving feedback inverter (DC to AC) burn-in cabinet

Outstanding functions

1. The software sets load parameters and monitors the voltage, current, and power parameters in real time
2. CP load mode
3. Built-in automatic protection device for overtemperature and smoke alarm
4. Can edit switch timing, load transformation function
5. Energy saving and conversion efficiency is above 85%
6. Use it with the power burn-in monitoring software
7. Multiple DC conversion board interfaces meet different output interface requirements
8. A variety of laminate structures are optional in the product area, which is more convenient to operate for different products
9. Temperature monitoring function of product area (optional)

Grid

DC The DC source ranges from 10 to 60V

Inverter energy storage product

DC - AC

AC electronic load CP8401

Burn-in cabinet structure and Burn-in quantity planning	Trolley size (mm)	L2050*W1085*H2050mm (size of a single Burn-in cabinet)
	Number of trolley layers	5layers, product area depth 400mm, (8 Burn-in positions per layer)
	Trolley height	220mm
	Trolley structure material/appearance color	2.0mm thick cold rolled sheet, computer white
	Load area cooling method	Top turbine exhaust fan top row type (easy to control the ambient temperature)
	Layer insulation and anti-static method	Epoxy insulation board with heat dissipation holes on the surface
	Overall burn-in room structure	Adopt mobile Burn-in split cabinet; beautiful appearance and easy to move and combine
Introduction to energy recovery module configuration, power of the tested power supply and Burn-in quantity	Energy recovery module control mode	RS485 communication mode, upper computer uses RS232 communication mode
	Install the energy recovery module model	CP8401(See specification for details)
	Number of energy recovery modules installed	There are 8 4CH modules on each floor, and 40 modules need to be installed in the whole burn-in cabinet
	Energy recovery module isolation mode	Electronic load module channel adopts photoelectric isolation (communication and power supply isolation)
	Energy recovery module design architecture	No relay, long life design scheme (independent intellectual property rights)
	Number of burn-in products in the entire cabinet	Burn-in of one cabinet There are 40 inverters with 40 DC inputs (10 to 60V/25A) and AC outputs (85 to 260V/30A/2.4W)
Introduction of electric control and temperature control device for power Burn-in cabinet	Wiring	Customer specified interface; Input/output port Anderson connector
	Panel function keys	Input AC voltage display, start switch, emergency stop switch
	Trolley power distribution and control mode	380V three-phase five-wire distribution; Computer monitoring and automatic electric control
	Trolley power distribution	A single burn-in cabinet is 2400W*40/0.85≈12KW, and the measured power efficiency is calculated as 85%
	Way to control	The electric control includes manual/automatic switching, which is monitored by the computer in real time when burn-in. The electric control cabinet can extend the automatic switching function of AC voltage
	Safety protection	Equipment grounding protection, leakage switch protection, smoke alarm automatic power-off protection, etc.
Introduction to the main functions of the system	Suitable for inverter board, DC to AC power supply burn-in	
	Free configuration of self-developed special monitoring software for power Burn-in, with independent intellectual property rights and no legal risks	
	Use programmable electronic load module to monitor output terminal voltage, current and power parameters	
	Dedicated monitoring software for Burn-in enjoys free final upgrade service, powerful expansion function, saving repeated investment in equipment	
	Burn-in parameters, time setting, ON/OFF sequence editing (test of the product being tested on and off), support for automatic voltage switching, load conversion and other functions can be programmed (Burn-in parameters can be automatically switched in a fixed time period)	
	The function of automatically turning off the power at the end of the Burn-in of the tested power supply is convenient for unattended	
	The computer automatically displays the quality of the tested power supply product, and multiple windows in the window are convenient for centralized management, which saves operators and improves production efficiency	
	The computer can store the Burn-in data report of the tested power supply, the process parameters of the tested power supply are easy to trace; in addition, it has barcode scanning and supports MES system upload	
	RS232 to RS485 adopts photoelectric isolation converter to improve communication reliability and prevent lightning damage to equipment	
	Each computer can monitor 18 devices at the same time, (each serial port can connect to 63 slaves, and each computer supports up to 18 serial ports)	
	The power Burn-in monitoring software has a built-in help file, which is convenient for solving operation questions immediately	

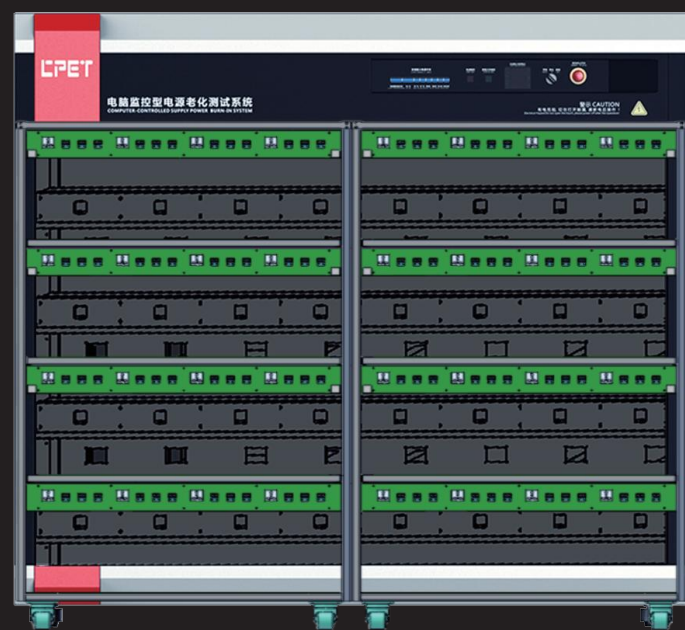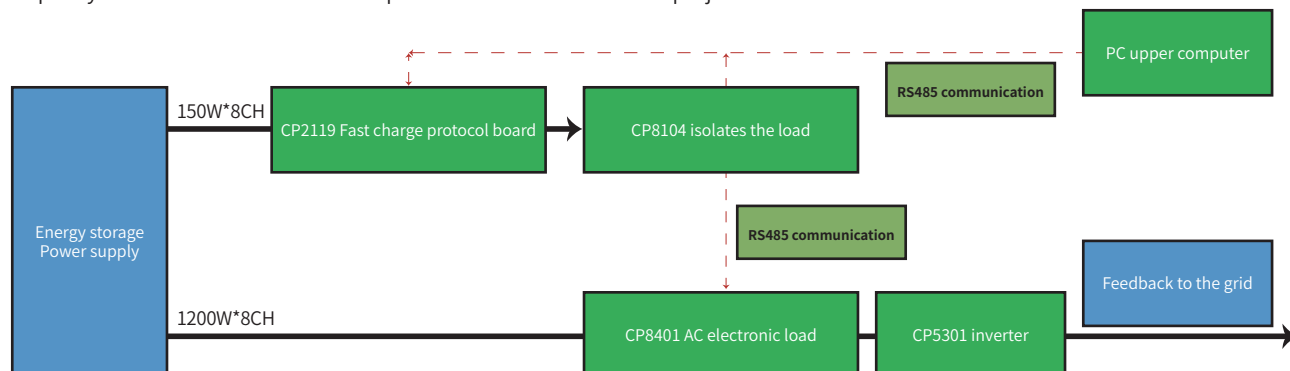## Energy-saving feedback type portable outdoor energy storage power supply machine charging burn-in cabinet

Outstanding functions

1. Charging control system: software controlled program-controlled power supply, freely set voltage to charge energy storage power supply
2. Charging monitoring system: The software can monitor the programmed power supply to give the voltage and current in the charging process of the energy storage power supply and calculate the charging amount
3. Ac-to-dc system: Monitors the AC output parameters to automatically calculate and set the back-end DC load pulling value
4. Fast charging decoy function: Support QC/PD fast charging function
5. DC discharge monitoring system: monitors the voltage and current parameters of the DC output discharge of the energy storage power
6. Charge and discharge capacity calculation: can support the capacity of the range of determination, such as setting the cut-off discharge capacity to reach the set value can stop aging or execute the next project
7. Multiple load combinations: The aging cabinet supports multiple load combinations

Performance parameters

Burn-in cabinet structure and Burn-in quantity planning	Trolley size (mm)	L2050*W700*H2050mm (size of a single Burn-in cabinet)
	Number of trolley layers	4 layers, product area depth 400mm, (6 Burn-in positions per layer)
	Trolley height	350mm
	Trolley structure material/appearance color	2.0mm thick cold rolled sheet, computer white
	Load area cooling method	Top turbine exhaust fan top row type (easy to control the ambient temperature)
	Layer insulation and anti-static method	Epoxy insulation board with heat dissipation holes on the surface
	Overall burn-in room structure	Adopt mobile Burn-in split cabinet; beautiful appearance and easy to move and combine
Introduction to energy recovery module configuration, power of the tested power supply and Burn-in quantity	Energy recovery module control mode	RS485 communication mode, upper computer uses RS232 communication mode
	Install the power module model	CP8102/CP8104
	Number of energy-consuming load modules installed	Each layer has 6 4CH modules, and 24 modules need to be installed in the whole burn-in cabinet
	Install the energy recovery module model	CP8401+CP5312(See specification for details)
	Energy recovery module isolation mode	Electronic load module channel adopts photoelectric isolation (communication and power supply isolation)
	Number of energy recovery modules installed	Three 4CH energy recovery modules are installed on each floor, 12 modules need to be installed in the entire burn-in cabinet, and 6 single-phase 5KW inverter modules need to be installed
	Energy recovery module design architecture	No relay, long-life design scheme (independent intellectual property rights)
	Number of burn-in products in the whole cabinet	24 energy storage power supplies with eight DC outputs (50W/100V/5A) and AC outputs (220V/500W) are aged in one cabinet
Introduction of electric control and temperature control device for power Burn-in cabinet	Wiring	Customer specified interface; input port is pin socket
	Panel function keys	Input AC voltage display, start switch, emergency stop switch
	Trolley power distribution and control mode	380V three-phase five-wire distribution; Computer monitoring and automatic electric control
	Trolley power distribution	A single burn-in cabinet is 1200W*24/0.85≈34KW, and the measured power efficiency is calculated as 85%
	Way to control	The electric control includes manual/automatic switching, which is monitored by the computer in real time when burn-in. The electric control cabinet can extend the automatic switching function of AC voltage
	Safety protection	Equipment grounding protection, leakage switch protection, smoke alarm automatic power-off protection, etc.
Introduction to the main functions of the system	Applicable to energy storage power LED power supply, charger, industrial power supply, display power supply, medical power supply and so on power burn-in	
	Free configuration of self-developed special monitoring software for power Burn-in, with independent intellectual property rights and no legal risks	
	Use programmable electronic load module to monitor output terminal voltage, current and power parameters	
	Dedicated monitoring software for Burn-in enjoys free final upgrade service, powerful expansion function, saving repeated investment in equipment	
	Burn-in parameters, time setting, ON/OFF sequence editing (test of the product being tested on and off), support for automatic voltage switching, load conversion and other functions can be programmed (Burn-in parameters can be automatically switched in a fixed time period)	
	The function of automatically turning off the power at the end of the Burn-in of the tested power supply is convenient for unattended	
	The computer automatically displays the quality of the tested power supply product, and multiple windows in the window are convenient for centralized management, which saves operators and improves production efficiency	
	The computer can store the Burn-in data report of the tested power supply, the process parameters of the tested power supply are easy to trace; in addition, it has barcode scanning and supports MES system upload	
	RS232 to RS485 adopts photoelectric isolation converter to improve communication reliability and prevent lightning damage to equipment	
	Each computer can monitor 18 devices at the same time, (each serial port can connect to 63 slaves, and each computer supports up to 18 serial ports)	
	The power Burn-in monitoring software has a built-in help file, which is convenient for solving operation questions immediately	

Energy-saving feedback portable outdoor energy storage power supply machine discharge burn-in cabinet

Outstanding functions

1. AC/DC discharge monitoring system
2. Monitor the voltage and current specifications of the AC output discharge of the energy storage power
3. Automatically calculate and set the back-end DC load pulling value by monitoring the AC output parameters
4. Fast decoy function
5. Monitor the voltage and current parameters of the DC output discharge of the energy storage power
6. Calculation of discharge capacity
7. It can support capacity range determination, such as setting cut-off discharge capacity to stop aging or execute the next project when it reaches the set value
8. A variety of load combination pull, support a variety of load combination configuration burn-in cabinet fast charging decoy function: support QC/PD fast charging function
9. DC discharge monitoring system: monitors the voltage and current parameters of the DC output discharge of the energy storage power supply
10. Discharge capacity calculation: can support the capacity of the range of determination, such as setting the cut-off discharge capacity to reach the set value can stop burn-in or execute the next project

Burn-in cabinet structure and Burn-in quantity planning	Trolley size (mm)	L2050*W700*H2050mm (size of a single Burn-in cabinet)
	Number of trolley layers	4 layers, product area depth 400mm, (6 Burn-in positions per layer)
	Trolley height	350mm
	Trolley structure material/appearance color	2.0mm thick cold rolled sheet, computer white
	Load area cooling method	Top turbine exhaust fan top row type (easy to control the ambient temperature)
	Layer insulation and anti-static method	Epoxy insulation board with heat dissipation holes on the surface
	Overall burn-in room structure	Adopt mobile Burn-in split cabinet; beautiful appearance and easy to move and combine
Introduction to energy recovery module configuration, power of the tested power supply and Burn-in quantity	Energy recovery module control mode	RS485 communication mode, upper computer uses RS232 communication mode
	Install the power module model	CP8401/CP8104
	Number of energy-consuming load modules installed	Each layer has 6 4CH modules, and 24 modules need to be installed in the whole burn-in cabinet
	Install the energy recovery module model	CP8401+CP5301(See specification for details)
	Energy recovery module isolation mode	Electronic load module channel adopts photoelectric isolation (communication and power supply isolation)
	Number of energy recovery modules installed	Three 4CH energy recovery modules are installed on each floor, 12 modules need to be installed in the entire burn-in cabinet, and 6 single-phase 5KW inverter modules need to be installed
	Energy recovery module design architecture	No relay, long-life design scheme (independent intellectual property rights)
	Number of burn-in products in the whole cabinet	24 energy storage power supplies with eight DC outputs (50W/100V/5A) and AC outputs (220V/500W) are aged in one cabinet
Introduction of electric control and temperature control device for power Burn-in cabinet	Wiring	Customer specified interface; input port is pin socket
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	Trolley power distribution	A single burn-in cabinet is 1200W*24/0.85≈34KW, and the measured power efficiency is calculated as 85%
	Way to control	The electric control includes manual/automatic switching, which is monitored by the computer in real time when burn-in. The electric control cabinet can extend the automatic switching function of AC voltage
	Safety protection	Equipment grounding protection, leakage switch protection, smoke alarm automatic power-off protection, etc.
Introduction to the main functions of the system	Applicable to energy storage power LED power supply, charger, industrial power supply, display power supply, medical power supply and so on power burn-in	
	Free configuration of self-developed special monitoring software for power Burn-in, with independent intellectual property rights and no legal risks	
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	The power Burn-in monitoring software has a built-in help file, which is convenient for solving operation questions immediately	

Energy storage Power supply
150W*8CH
CP2119 Fast charge protocol board
CP8104 isolates the load
RS485 communication
PC upper computer
RS485 communication
1200W*8CH
CP8401 AC electronic load
CP5301 inverter
Feedback to the grid

03
INTELLIGENT TEST SYSTEM (ATE) EQUIPMENT SECTION

CPET ATS software platform

CPET ATS is an open automatic test platform for electrical performance of power electronics and peripheral products. Can also be customized according to the customer's traditional electronic product automation test, or secondary development.

CPET ATS is carefully built by a professional team with more than 20 years of experience. On the basis of absorbing the advantages of mainstream software platforms, this software platform realizes the compatibility and unification of ATE and BI testing software. Mainstream development languages, such as VB, C#, C++, LabView, LabWindows/CVI and CPET ATS interconnectivity, make the customer secondary development easier; Multi-uut parallel infrastructure makes the test program writing easier and the test speed faster.

CPET ATS is an open source architecture, so that users not only easy to customize the test command, test project, test interface, but also easy to integrate all kinds of instrument hardware equipment into the system, such as all kinds of programmable AC-DC power supply, electronic load, power analyzer, oscilloscope, power meter, I/O control card, PLC, etc. Even the Chamber, the aging cabinet and so on.

CPET ATS is almost free to expand customer custom test projects without limit, making automated testing simple and flexible, so that the product in the development, verification, trial production and mass production testing process to save labor and time costs, ensure quality, win customers.

Secondary development open source, similar to TestStand into IDE source level debugging instrument driver, TI, etc. It provides the best solution for automatic tuning and testing of communication products in the industry.

Principles of the ATS software platform

The CPET ATS automatic test system integrates all kinds of instruments and equipment used in the test of electric power generation performance, and each instrument and equipment through the standard communication interface such as: GPIB, RS-232, RS-485, USB, LAN, I^2C and other industrial computer connection, industrial computer using CPET ATS software platform to control all kinds of instruments and equipment, so as to achieve automatic testing.


Outstanding functions

1. Standard three-tier database architecture, multi-database support. Make platform software project management more standardized, upgrade iteration more flexible
2. ATE is compatible with BI testing software, and can switch ATE and BI programs with one key
3. Original Float[UUT], Float%[UUT], Integer[UUT], String[UUT] variable, multi-Uut parallel test infrastructure. It makes writing test projects and test procedures more concise, simpler, faster testing
4. Secondary development of open source, similar to TestStand into IDE source debugging instrument driver, TI, etc. Mainstream development languages, such as VB, C#, C++, LabView, LabWindows/CVI and ATS interconnection. Maximize the use of the client's existing PC software resources, customize the test interface, MES docking, customize the test project, increase the instrument driver, etc. The optimal solution for automatic tuning of tape communication products
5. During testing and debugging, the instrument can be called out On Line control panel, which greatly improves the debugging efficiency of the test program
6. Use the at. ini file and Icon directory to customize the software interface and develop an independent interface test system
7. Seamless connection with CPET self-developed automated production line, providing one-stop automatic testing solutions for the whole station
8. Built-in CPET independently developed MES system

ATS Original excellent features (compared with Chroma8000)

Standard three-tier database architecture, multi-database support. Make platform software project management more standardized, upgrade iteration more flexible.
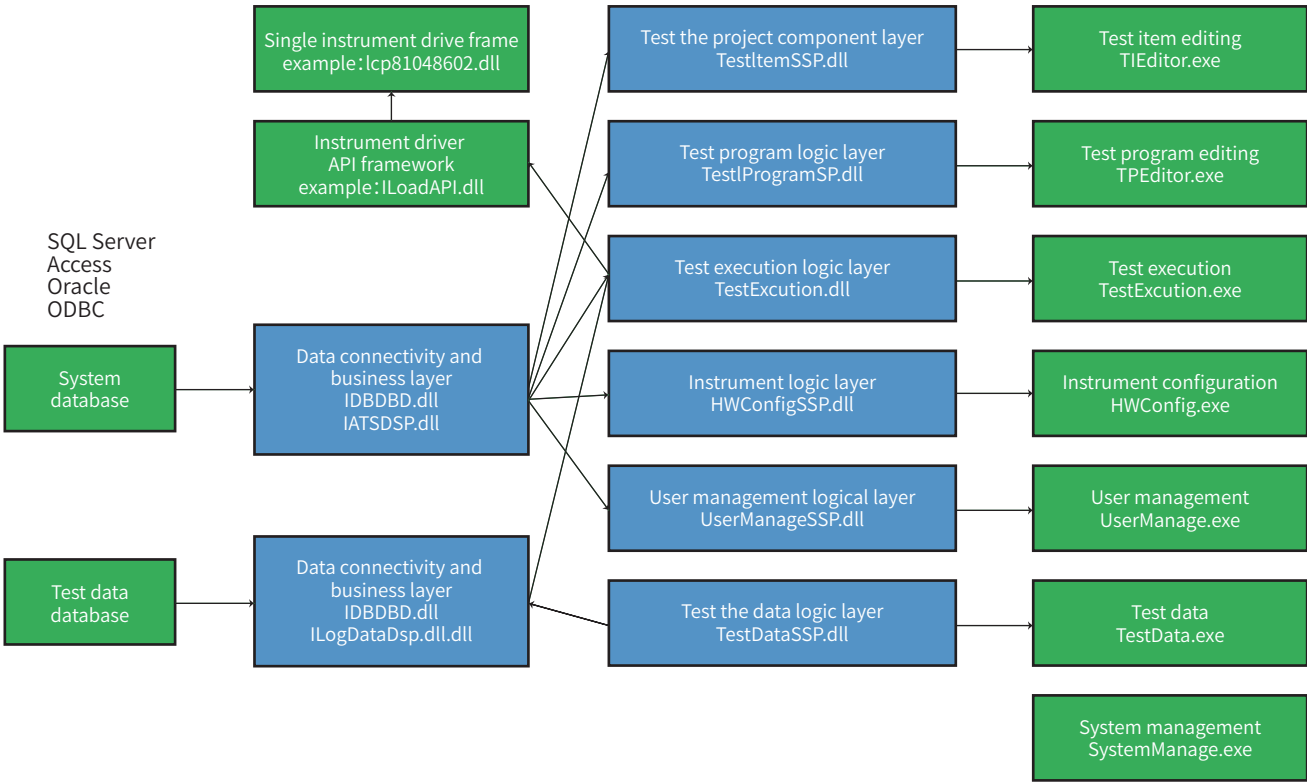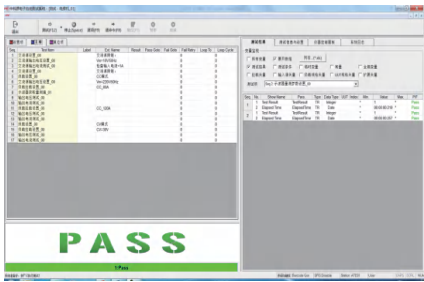
CPET ATS original excellent function

ATE is compatible with BI test software, one key switch between ATE and BI program (burn-in BI test essence is multi-uut ATE).
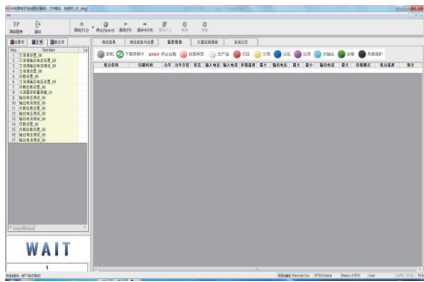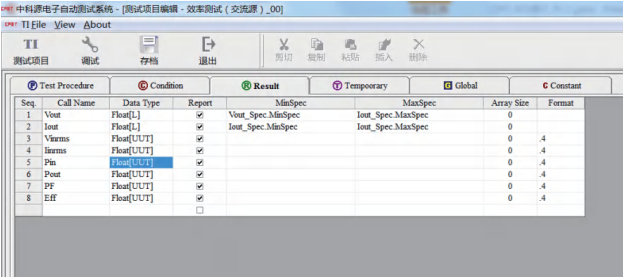
BI test

ATE test

Unique Float[UUT], Float%[UUT], Integer[UUT], String[UUT] variable, multi-Uut parallel test infrastructure. It makes writing test projects and test procedures more concise, simpler, faster testing.

Secondary development open source. Mainstream development languages, such as VB, C#, C++, LabView, LabWindows/CVI and ATS interconnection. Maximize the use of the client's existing PC software resources, customize the test interface, MES docking, customize the test project, increase the instrument driver, etc.
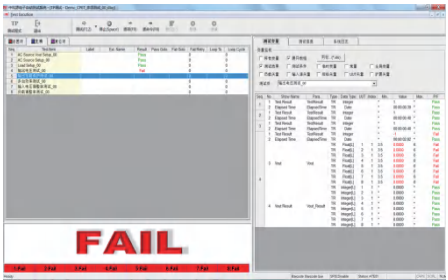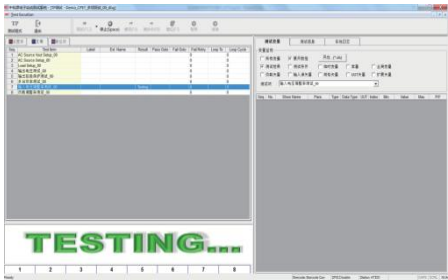
Through the ATS.ini file and Icon directory to define the software interface, develop the autonomous interface test system.
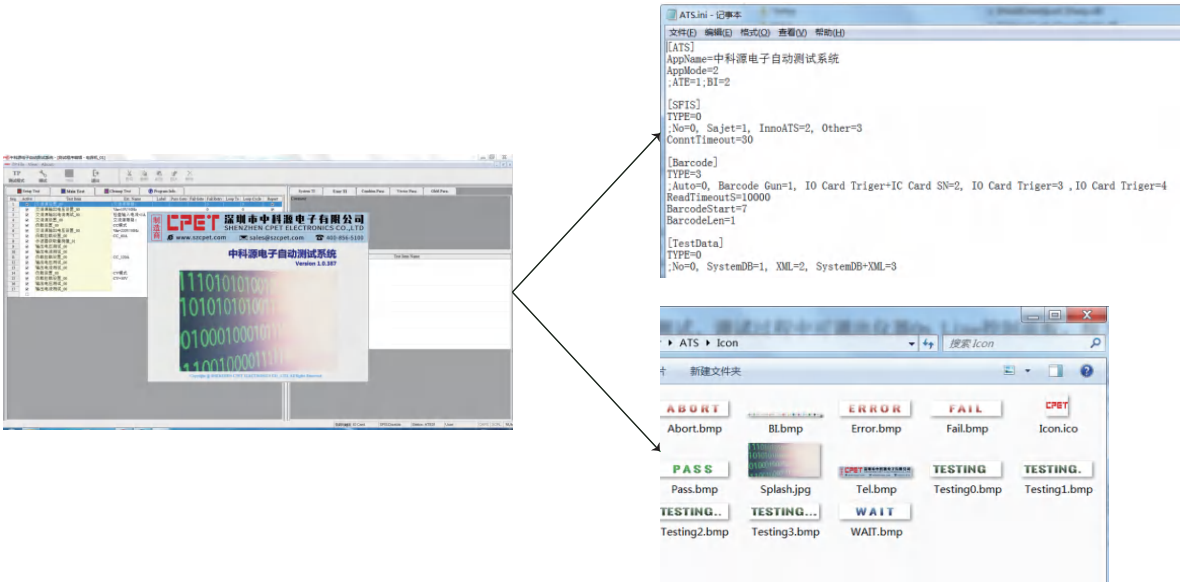
Seamless connection with CPET self-developed automated production line, providing one-stop automatic testing solutions for the whole station.

CPET ATS test is performed

04 TESTING INSTRUMENTS AND SOFTWARE

CP9000 Switching Power Supply Automatic Test System

Scope of application

- It is applicable to online comprehensive performance test for AC/DC adaptor, DC/DC adaptor, charger, switching mode power supply, LED driver etca

Outstanding functions

1. Open architecture software platform to support with GPIB/RS - 232 or RS – 485
2. Test items, test procedures, test reports, statistical analysis reports etc. Editing function
3. Master-slave control mode, a test of multiple single output power supply
4. Support Barcode Reader, test commands to edit, to help improve test speed
5. Can give any power supply test application test project editing skills
6. A wide range of modular hardware to provide high accuracy and repeatability measurements
7. By the system preset test project, can raise the productivity of the test
8. Graphical interface Windows 98 / NT / 2000 operating environment over
9. Create excel report to save test data, quantity, failure rate, CPK etc
10. Double-jig to switch left and right automatically

Performance parameters

Test Name	Test Name	
START UP	Inrush current: 0 – 83Apk(Inrush current) Startup time: 0 to 32767msec.(Boot time) Output voltage overshoot: 0 – 500Vpk Rise time: 0 to 32767msec.(Rise Time)	±1% (reading + range) ±1ms ±1% (reading + range) ±1ms
UVLO(Under voltage or over voltage)	Functional test only, Pass/Fail	N/A
IDLE	Standby input power: 0 – 5/25/250/1250W Standby input current: 0 – 0.1/0.5/5/25Apk Input voltage: 30 – 280V*Note 2	±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range)
STANDARD CV (Constant Current and Constant Resistance load)	CC mode: 0 – 3/15 A CR mode: 0.1 – 50Ohm Input voltage: 30 – 300Vrms *Note 1 Input current: 0 – 0.1/0.5/5/25Apk Input power: 0 – 5/25/250/1250W Power factor 0 – 1.0 Output voltage 0 – 15/500Vdc Output current 0 – 3/15Adc Efficiency: 0 – 100% Ripple/Noise 200kHz: 0 – 500mV Ripple/Noise 20MHz: 0 – 500mV	±0.15% (setting + range) ±0.3% (setting + range)*Note 2 ±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range) ±0.2% (reading + range) ±0.05% (reading + range) ±0.1% (reading + range) ±0.25% (reading + range) ±2% (reading + 5mV) ±2% (reading + 5mV)
STANDARD CC (Constant Voltage and Constant Resistance load)	CV mode: 0 – 15/500V CR mode: 0.1 – 50Ohm Input voltage: 30 – 300Vrms *Note 1 Input current: 0 – 0.1/0.5/5/25Apk Input power: 0 – 5/25/250/1250W Power factor 0 – 1.0 Output voltage 0 – 15/500Vdc Output current 0 – 15Adc Efficiency: 0 – 100%	±0.15% (setting + range) ±0.3% (setting + range)*Note 3 ±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range) ±0.2% (reading + range) ±0.05% (reading + range) ±0.1% (reading + range) ±0.25% (reading + range)
LED Driver Test (LED Load)	Input voltage: 30 – 300 Vrms *Note 1 Input current: 0 – 5/25Apk Input power: 0 – 250/1250W Power factor 0 – 1.0 Output average current reading: 0 – 15Adc Output average voltage reading: 0 – 500Vdc Output pulsed current reading (TRIAC, PWM)	±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range) ±0.2% (reading + range) ±0.1% (reading + range)*Note 4 ±0.05% (reading + range)*Note 4 ±0.5% (reading + range)
SHORT CIRCUIT	Input voltage: 30 – 300 Vrms *Note 1 Input current: 0 – 5/25Apk Input power: 0 – 250/1250W Power factor 0 – 1.0 Output average Current: 0 – 15Adc	±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range) ±0.2% (reading + range) ±0.2% (reading + range)*Note 4
OVER CURRENT	Current trip point: 0 – 3/15Adc Trip point voltage: 0 – 15/500Vdc Wait time >= 10msec. Wait time < 10msec. Voltage before trip point: 0 – 15/500Vdc Current before trip point: 0 – 3/15Adc	±0.1% (reading + range) ±0.05% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range) ±0.1% (reading + range)
OVER VOLTAGE	OV trip point: 0 – 500V	±0.1% (reading + range)
LINE REGULATION	Voltage regulation: 0 – 100%	±0.1% (reading + range)
LOAD REGULATION	Voltage regulation: 0 – 100%	±0.1% (reading + range)
AVERAGE EFFICIENCY	Efficiency: 0 – 100%	±0.25% (reading + range)
Dynamic load	Over shoot voltage: 0 – 15/500Vdc Under shoot voltage: 0 – 15/500Vdc	±0.05% (reading + range) ±0.05% (reading + range)
POWER DOWN	Holdup time: 0 – 65535 msec. Input voltage: 30 – 300Vrms *Note 1 Output current 0 – 3/15Adc Output voltage overshoot: 0 – 500Vpk	±1ms ±0.1% (reading + range) ±0.1% (reading + range) ±1% (reading + range)
Global Setting	Load on voltage: 0 – 500Vdc Wait time: 0 – 32767msec. Nominal output voltage: 0 – 500Vdc Nominal output current: 0 – 15Adc	±1% (reading + range) ±1ms ±1% (reading + range) ±1% (reading + range)

Power battery charge and discharge test system

Scope of application

- Electric bicycles, electric tricycles, Electric scooter, electric balance vehicles, low-speed four-wheelers, mobile energy storage, automatic sweepers, medical equipment, power tools, vacuum cleaners and other batteries for cyclic charge and discharge burn-in test

Outstanding functions

1. Modular design, flexible power configuration
2. Intelligent and friendly operation interface, real-time feedback of battery data, better care of the battery
3. Energy feedback (DC bus efficiency ≥90%): energy feedback type, both charging and discharging are energy-saving, It can save a lot of electricity consumption and at the same time also will save heat consumption generated by air condition
4. CC/CV charging: During the charging process, CC/CV has no excessive gaps and no voltage or current impact. Effectively prevent the battery from being heat-concentrated due to peak current, causing the tabs to fall off or micro-short circuit to produce islands Effect or overshoot phenomenon causes PCB protection action and secondary protection action
5. Recording conditions can be set in sections for test steps, and intelligent data management records can be implemented

Performance parameters

Model		CP-9101	CP-9102	CP-9103	CP-9104
Battery channel voltage	Charging voltage range	3V-100V	3V-100V	3V-100V	3V-100V
	Discharge voltage range	3V-100V	3V-100V	3V-100V	3V-100V
	Precision	±(0.05%RD+0.05%FS)	±(0.05%RD+0.05%FS)	±(0.05%RD+0.05%FS)	±(0.05%RD+0.05%FS)
	Voltage resolution	1mV	1mV	1mV	1mV
Battery channel current	Recharging current	30A/60A	100A/120A	150A/300A	150A
	Discharge current	30A/60A	100A/120A	150A/300A	150A
	Precision	±(0.05%RD+0.05%FS)			
	Resolution	1mA			
	Current start response time	≤10ms			
Quantity of channel for battery		2CH/4CH/6CH/8CH/16CH/customized			
Battery channel type		Channel isolation			
Channel working mode		Charging: constant current charging CC, constant voltage charging CV, constant current and constant voltage charging CC/CV ,Discharge: constant current discharge CC, constant power discharge CP			
Channel test abort condition		Time, voltage, current, capacity			
Effectiveness	Highest charging efficiency	92%			
	Highest discharge efficiency	91%			
AC grid	Rectified voltage range	186~264Vac/320~458Vac			
	Feeder voltage range	186~264Vac/320~458Vac			
	Frequency Range	47~63Hz			
	PF value	0.99 (>=50% Load)			
	THDI	<=5% (>=50% Load)			
Communication method		RS485 communication			
Control program		Support power-down data protection, support for power-off, manual stop, and continuous testing from data files			
		Safety protection conditions can be set, including: voltage lower limit, voltage upper limit, current lower limit, current upper limit, voltage and current trends			
	Cycles	Max 9999			
	Loop nesting	Maximum 10 layers			
	Step time range	Support h, min, S format			
	Data record	Time≥1S			
Data presentation method	Circular list	There are cycle number, charge/discharge capacity, charge/discharge efficiency, charge/discharge energy, etc			
	Process list	There are program number, working mode, process time, capacity, energy, median voltage, termination voltage, termination current, etc			
	Detailed list	Record serial number, system time, accumulated time, voltage, current, energy, power, etc			
Software protection		Power-down data protection, power-off and suspend connection, over-voltage and over-discharge protection, over-current and under-current protection, capacity protection, and over-temperature protection			
Hardware protection		Over current protection, over voltage protection, over temperature protection, reverse connection detection function			
Alarm function		The hardware has functions such as emergency cut-off switch, automatic shutdown after power failure, and automatic load connection and disconnection			
Cooling method		Forced air cooling			
Use environment	Ambient temperature	-20℃~40℃			
	Environment humidity	10%~90%RH, no condensation			
	Other	Avoid damp, vibration, dust, and use in explosive dust and steam environments			
Cabinet size		W860mm×D830mm×H2050mm			

Programmable DC adjustable power supply

Scope of application

- DC stabilized current power supply used for power supply, industrial control system, communication, scientific research, railway, automotive, marine, battery charging, aerospace, surface treatment, electrochemistry, new energy, capacitors, motors, sewage treatment, electronic product production testing, LED Lighting, heating, geological exploration, medical equipment (MRI), semi-conductor equipment (MOCVD), vacuum coating equipment and other industries. Used for product testing and burn-in, in addition, scientific research units, military electronics research institutes, aviation electrical appliances, non-ferrous metals and other units use this power supply for scientific research under high-precision and high-intensity status

Outstanding functions

1. Output parameters was set by the software and to monitor voltage, current, power and other parameters in real time
2. It can monitor the DC power supply output voltage, current, power and other charging status
3. CC, CV load mode
4. Parallel connection of channels in CC load mode to meet product power expansion
5. Built-in over-temperature, over-current and over-voltage automatic protection device
6. Editable output voltage, output current, start-up time and many other conversion functions
7. With 4.3 inch touch screen, it is more convenient to use and operate
8. Variety of DC fixture board interface to meet the needs of different output terminals
9. Variety of communication methods, RS 485, RS 232, CAN BUS, to meet the needs of different customers and products, can be directly connected to the computer, more convenient to operate

Performance parameters

Model		CP-610X	CP-611X	CP-612X	CP-613X	CP-614X
Input characteristics	Input voltage	220/380Vac	220/380Vac	220/380Vac	220/380Vac	220/380Vac
	Input Current (Single-phase three-wire)	15A/30A/45A	15A/30A/45A	45A	45A	45A
	Input current (three-phase five-wire)	15A/30A/30A	15A/30A/30A	30A	30A	30A
	Enter PF value	0.99	0.99	0.99	0.99	0.99
	Enter THDI	3%	3%	3%	3%	3%
Output characteristics	Voltage range	3~60Vdc	10~100Vdc	3~120Vdc	5~180Vdc	10~300Vdc
	Current range	50/100/150	30/60/90A	50A	50A	30A
	Output Power	3/6/9kW	3/6/9kW	6kW	9kW	9kW
	Conversion efficiency (max)			93%		
CV mode characteristics	Power effect			1%+0.02%FS		
	Load effect			1%+0.02%FS		
	Ripple noise			1%+0.02%FS		
	Setting accuracy			1%+0.02%FS		
	Set resolution			0.1V		
CC mode features	Power effect			2%+0.02%FS		
	Load effect			2%+0.02%FS		
	Ripple noise			2%+0.02%FS		
	Setting accuracy			2%+0.02%FS		
	Set resolution			0.1A		
Display characteristics	UI			Touch screen		
	Display resolution			0.01V (voltage), 0.01A (current)		
	Display accuracy			1%+0.02%FS		

CP8212 programmable 4-channel DC electronic load meter

Scope of application

- Suitable for function tests of adapter and charger
- Function tests of LED driver and LED TV power
- Function tests of module power, industrial power and communicationpower
- Function tests of AC/DC and DC/DC power converter
- Discharging test of portable power

Outstanding functions

1. Be of CC (constant current), CV (constant voltage), CR (constant resistance), CP (constant power) and LED load mode
2. Support parallel connection of channels under any mode and meet large power supply test
3. Be of programmable test mode and support load characteristic test
4. Support PASS signal output and is convenient for test and extensive application
5. Judge status of tested product in accordance with conditions set by user
6. Save setting parameters, and is convenient for fast call during tests of multiple products

Model			CP8212	
Quantity of channel			4	
Parallel connection of channels			Support parallel connection of channels under modes of CC/CV/CR/CP/LED	
Maximum input power of each channel			100W	
Total maximum input power of whole module			400W	
Input current/channel			Measuring range of low current: 0.05-2.5 A	Measuring range of high current: 2.5-10 A
Minimum operating voltageInput current			1V@2.5A	5V@10A
Input voltage			Measuring range of low voltage: 1-50 V	Measuring range of high voltage: 50-450V
CC (Constant current) load mode	Measurin range		0.05A-2.5A	2.5A-10A
	Resolution		1mA	10mA
	Precision		± (1%+0.02%FS)	
CV (Constant current) load mode	Measurin range		1V-50V	50-450V
	Resolution		0.012V	0.012V
	Precision		± (1%+0.02%FS)	
CR (constant resistance) load mode	Measurin range		0.4Ω-200Ω	200Ω-9.999KΩ
	Resolution		12bit	12bit
	Precision		± (1%+0.02%FS)	
CR(constant power) load mode	Measurin range		100W	
	Resolution		50mW	
	Precision		± (1%+0.02%FS)	
LED load simulating mode	Measurin range	Vo	1V-50V	50-450V
		Io	0.05-2A	2A-10A
		Rd coefficient	0.001-0.999	
	Resolution	Vo	0.012V	0.12V
		Io	1mA	10mA
		Rd coefficient	0.001	
	Precision		± (1%+0.02%FS)	
Current measurement	Measurin range		0.05-2.5A	2.5A-10A
	Resolution		1mA	10mA
	Precision		± (1%+0.02%FS)	
Voltage measurement	Measurin range		1V-50V	50-450V
	Resolution		0.005V	0.05V
	Precision		± (1%+0.02%FS)	
Power measurement	Measurin range		100W	
	Resolution		50mW	
	Precision		± (1%+0.02%FS)	
Dynamic tesing mode	Cycle T1&T2		100uS-50S	
	Resolution		100uS	
	Precision		2uS+100ppm	
	Current speed		0.05mA-200mA/uS	0.5mA-750mA/uS
Dimension			L355mm*W220mm*H100mm	

CP8213 programmable 4 channel DC lamp bead load meter

Scope of application

- Suitable for function tests of adapter and charger
- Function tests of LED driver and LED TV power
- Function tests of module power, industrial power and communication power
- Function tests of AC/DC and DC/DC power converter
- Discharging test of portable power

Outstanding functions

1. Be of CC (constant current), CV (constant voltage), CR (constant resistance), CP (constant power) and LED load mode
2. Support parallel connection of channels under any mode and meet large power supply test
3. Be of programmable test mode and support load characteristic test
4. Support PASS signal output and is convenient for test and extensive application
5. Judge status of tested product in accordance with conditions set by user
6. Save setting parameters, and is convenient for fast call during tests of multiple products

Model			CP8213
Quantity of channel			4
Parallel connection of channels			LED mode
Maximum input power of each channel			75W
Total maximum input power of whole module			300W
Input current/channel			0.01A-1A
Minimum operating voltageInput current			3V
Input voltage			3V-384V
CC (Constant current) load mode	Measurin range		0.01A-1A
	Resolution		0.5mA
	Precision		±(1%+0.1%FS)
CV (Constant current) load mode	Measurin range		3V-384V
	Resolution		60mV
	Precision		±(1%+0.1%FS)
CR (constant resistance) load mode	Measurin range		3Ω-9.999kΩ
	Resolution		12 bit
	Precision		±(1%+0.1%FS)
CR(constant power) load mode	Measurin range		75W
	Resolution		50mW
	Precision		±(1%+0.1%FS)
LED load s imulating mode	Measurin range	Vo	3-384V
		Io	0.01A-1A
		Rd coefficient	0.001-0.999
	Resolution	Vo	0.012V
		Io	1mA
		Rd coefficient	0.001
	Precision		±(1%+0.1%FS)
Current measurement	Measurin range		0.01A-1A
	Resolution		0.5mA
	Precision		±(1%+0.1%FS)
Voltage measurement	Measurin range		3V-384V
	Resolution		60mV
	Precision		±(1%+0.1%FS)
Power measurement	Measurin range		75W
	Resolution		50mW
	Precision		±(1%+0.1%FS)
Dynamic tesing mode	Cycle T1&T2		100uS-50S
	Resolution		100uS
	Precision		2uS+100ppm
	Current speed		0.05mA200mA/uS
Dimension			L391mm*W211.5mm*H145.5mm

Universal Integrated Control And Test System

Universal Integrated Control And Test System includes several software products, and can be applied to the power supply burn-in test, power supply auto test, automatic control, etc.
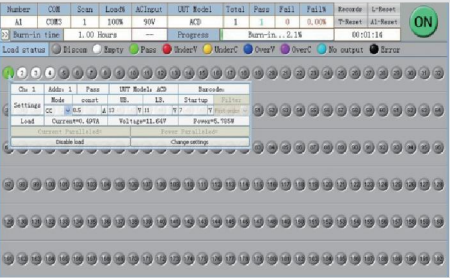
Monitoring software of Power supply Burn-in system BIS7
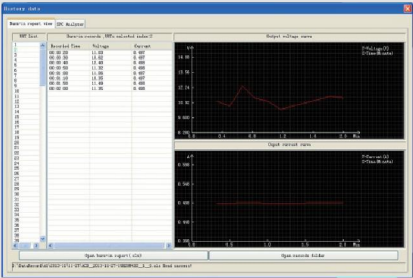
Scope of application

- The power supply burn-in system is applied to the burn-in testing of power supply manufacture procedure,and it is compliant with all the burn-in devices produced by CPET

Outstanding functions

1. Visual burn-in test setting interface, includes load mode, load value,UUT specification,ambient temperture settings,etc.And the settings can be saved as a file, you can open it with one key operation and then start a burn-in task

2. Realtime load condition monitored and graphical display PASS/FAIL judgment of the power supplies, it can monitor every power supply's input and output characteristic in the burn-in device, includes output current, output voltage,input voltage,input current,input active power,power factor,efficiency,etc

3. Programable burn-in timing,includes input ON/OFF timing,input voltage slection timing,etc

4. Burn-in test results recorded automatically during the burn-in task

5. You can watch the input and output characteristic curve of the power supples during the burn-in task

6. Integrated with data records analysis, you can search power supplies through the barcodes or models. It can generate a P-chartand calculate the Cpk value
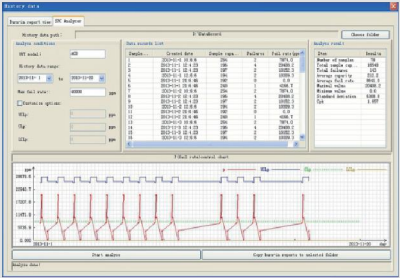
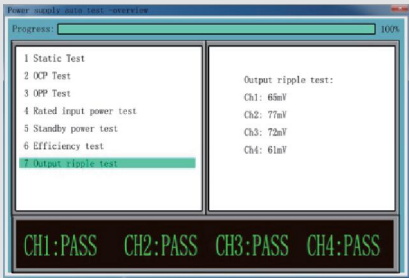| Interface of software monitor | Interface of data check | Interface of P control chart for data analysis |

Software of power supply automatic test system ATS1
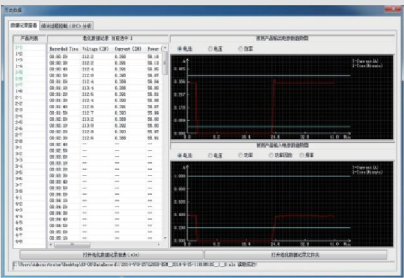
Scope of application

- The power supply auto test system is applied to the final testing of power supply manufacture procedure,and it is compliant with all the power supply test devices produced by CPET

Outstanding functions

1. Support input and output electrical character testing and timing testing of the power supply
2. Built-in various testing items, such as static test, dynamic test, OCP test, OPP test, input rated power test, input standby power test, output ripple test, etc. It can make the complicated test more easier
3. You can define different testing procedure correspond to the different power supplies
4. You can define non-stantard testing item
5. Graphical testing interface, you can start/stop a test through one key
6. Test results saved in the database automatically
7. Integrated with test results search and analysis, includes barcode search, model search, time frame search and SPC analysis

Interface of software monitor   Interface of data check

Software of automatic control system ACS1

Scope of application

- The automation control system is applied to the automatic production progress, it usually act as a system component integrated into the power supply burn-in system , the power supply auto test system or other control&testing system, so as to realize full automation of the power supply burn-in and test process

Outstanding functions

1. It can be applied to install the power supply to or unstall it from the burn-in device automatically of the power supply burn-in system
2. It can be applied to install the power supply to or unstall it from the testing device and sort the defectives automatically of the power supply auto test system
3. It can be applied to all kinds of products's packing or label procedure
4. It can be applied to install procedure of the non-stantard plug-in components of various electrical products
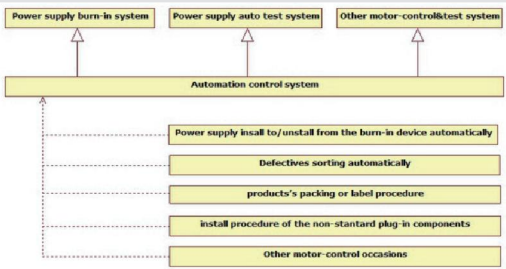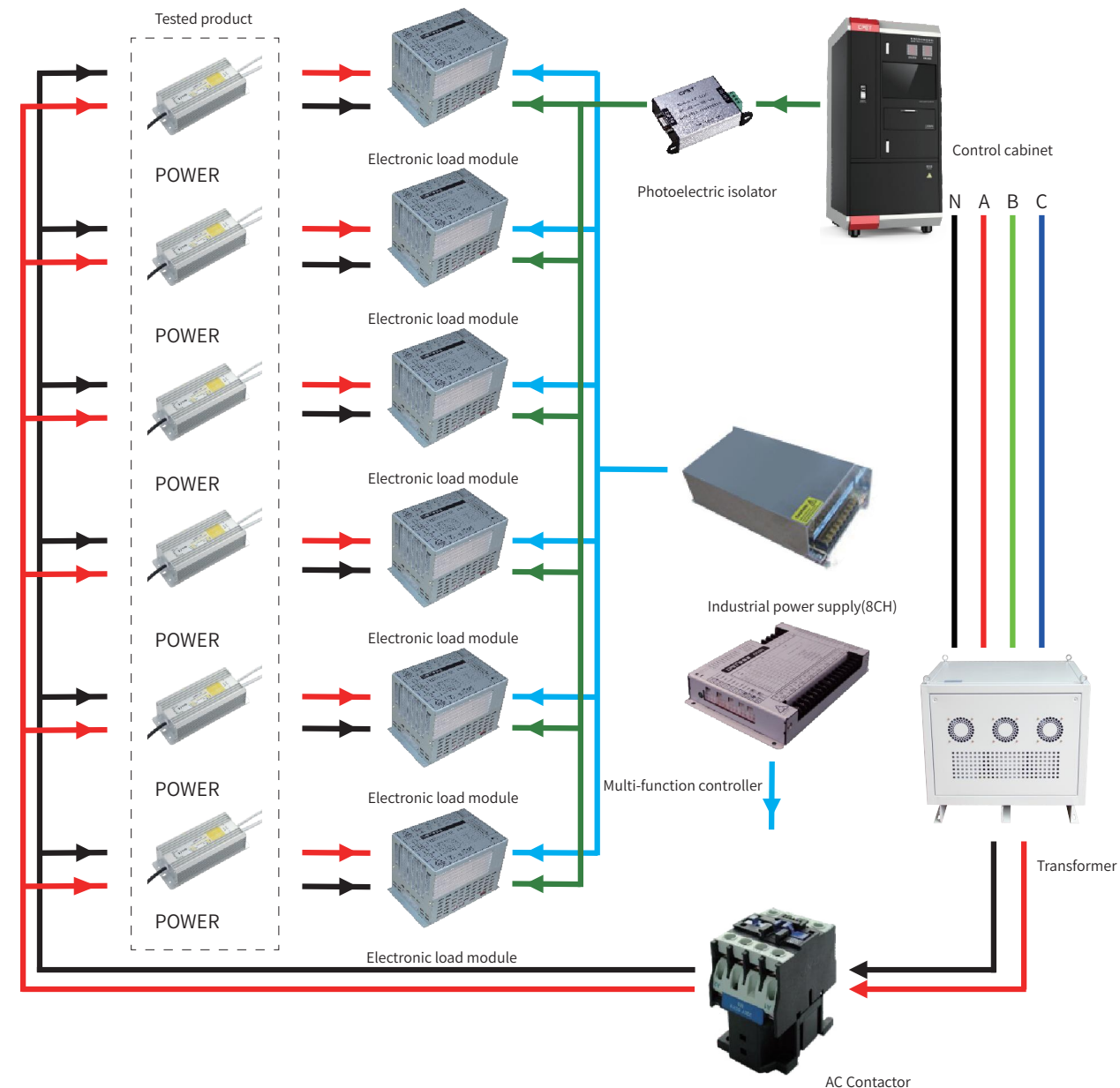

The automation control system applications
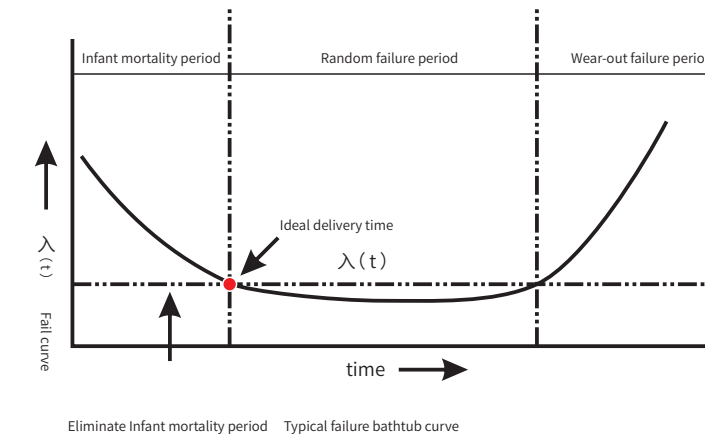
PROGRAMMABLE INTELLIGENT ENERGY LOAD MODULE

Architecture of electronic-load type power supply burn-in system

Tested product

POWER

POWER

POWER

POWER

POWER

POWER

POWER

Electronic load module

Electronic load module

Electronic load module

Electronic load module

Electronic load module

Electronic load module

Electronic load module

Photoelectric isolator

Control cabinet

N A B C

Industrial power supply(8CH)

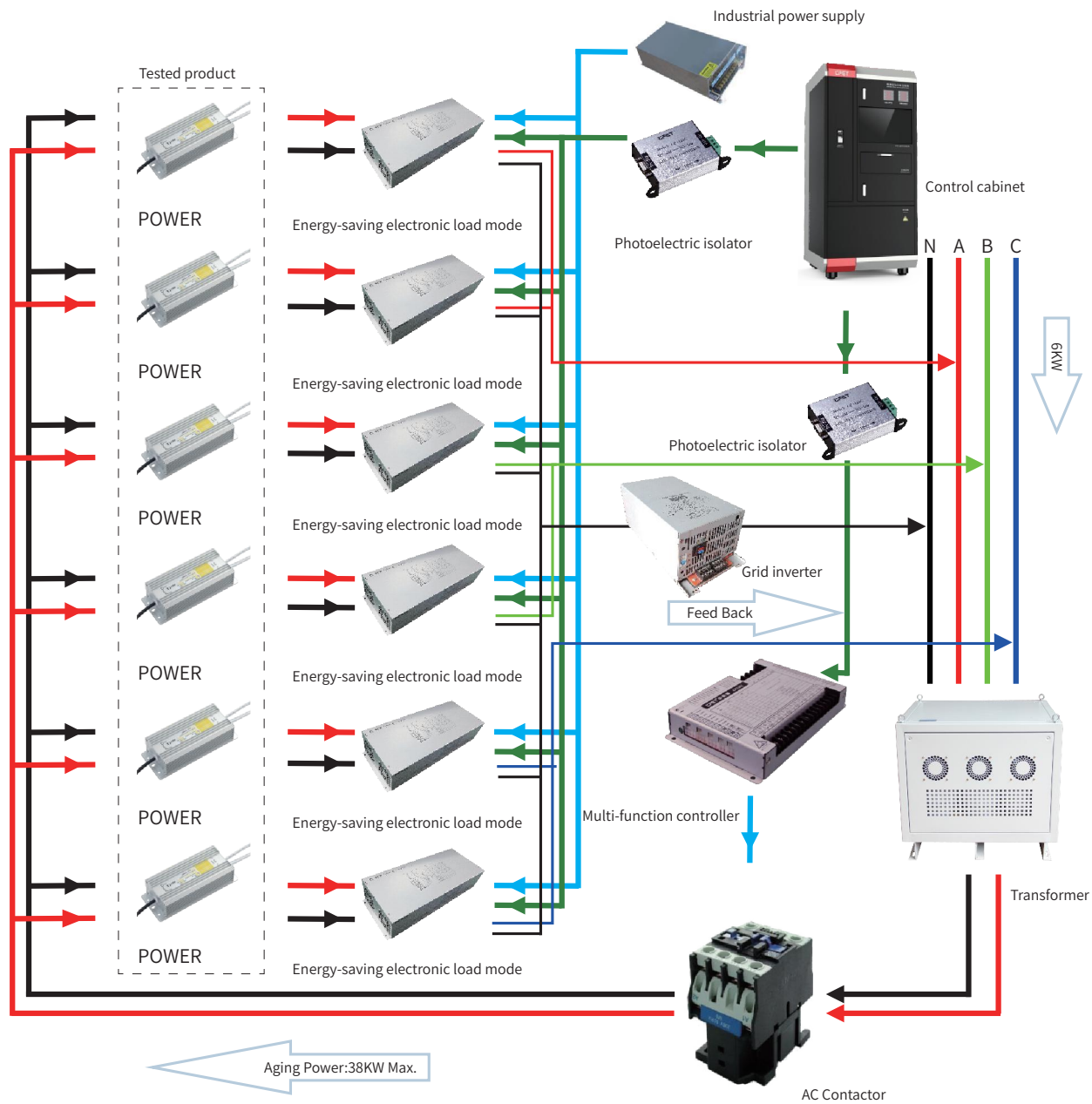Multi-function controller

Transformer

AC Contactor

BI operating principle introduction

Burn-in, an Environmental Stress Screening (ESS), is a kind of quite popular method to ensure the quality & reliability of modern high-tech electronic products. That is, ESS forces failures hidden in electronic hardware and caused by weak parts & components and poor technology during production to occur and expose in advance, by applying additional environmental stress. Then it finds these defective products by applying various applicable inspection or test methods, and eliminates them; or repairs them through modification, to improve the manufacturing quality of hardware and maintain the level given during design. Therefore, the delivered products passing screening are all of good quality and high reliability and ensure that clients can feel free to use them.

Infant mortality period   Random failure period   Wear-out failure period

Ideal delivery time

$\lambda(t)$

$\lambda(t)$

Fail curve

time

Eliminate Infant mortality period   Typical failure bathtub curve

What is life circle of power? The failure rate of products varies over time of life circle and general variation trends present in bathtub shape, therefore, we call this bathtub curve. The following figure shows bathtub curve of typical products. Bathtub curve of failure rate generally includes three stages: infant mortality period, random failure period and wear-out failure period. As soon as products manufacturing is completed, they are of high failure rate just as baby easy to get sick; therefore, we call this infant mortality period. During this period, failure rate of products diminishes gradually over time, so we call this decreasing failure rate (DFR). When failure rate diminishes to a certain degree (i.e., obvious changes occur no longer and failure phenomenon occurs occasionally and randomly), we call this random failure period. Therefore, power burn-in is to inspect infant mortality failure of products. It is not difficult to conclude: power production requires practical loads and burn-in test under a certain condition. Therefore, effective method for power burn-in test is essential for products quality. CPET creates professional power burn-in electronic load module, to provide solutions for power burn-in test.

Energy recovery type power supply burn-in system

Industrial power supply

Tested product

POWER

Energy-saving electronic load mode

POWER

Energy-saving electronic load mode

POWER

Energy-saving electronic load mode

POWER

Energy-saving electronic load mode

POWER

Energy-saving electronic load mode

POWER

Energy-saving electronic load mode

POWER

Energy-saving electronic load mode

POWER

Energy-saving electronic load mode

Control cabinet

Photoelectric isolator

N A B C

6KW

Photoelectric isolator

Grid inverter

Feed Back

Multi-function controller

Transformer

Aging Power:38KW Max.

AC Contactor

LED and electronic load test waveform Comparison chart

To compare the test data of LED lamp and LED mode, apply LED power of 36 V/570 mA for comparison test of both loads, to determine the differences between LED mode and LED lamp with electronic load.

Test waveform of LED lamp

Test waveform of LED mode with
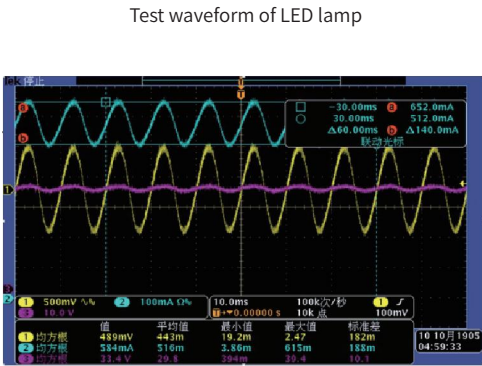
CH1: ripple of output voltage; CH2: current waveform; CH3: output voltage
The actual output voltage of LED power: 35.98 V, current: 0.570 A; ripple voltage: 489 mV; amplitude of ripple current: 140 mA
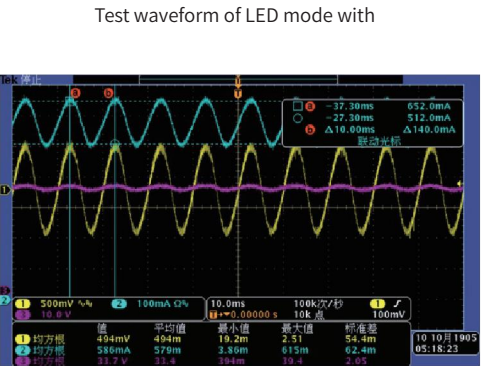
CH1: ripple of output voltage; CH2: current waveform; CH3: output voltage
Setting parameters of LED mode: VO=36 V; IO=0.57 A; RD coefficient (RDC)=0.15; test voltage: 36.01 V; current: 0.571 A; ripple voltage: 494 mV; amplitude of ripple current: 140 mV
From the above comparison of test data, LED power output consists of ripple voltage and current of 100 HZ.

Waveform of instant voltage drop

Waveform of instant voltage drop
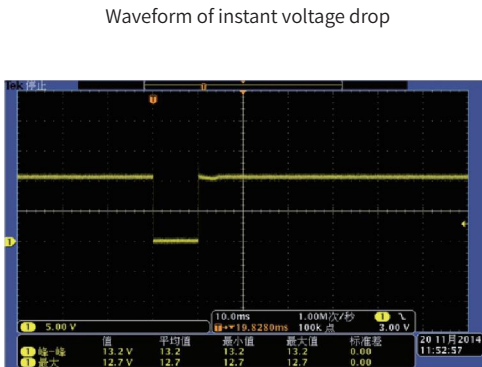
From the above waveform, the reaction time for instant voltage drop≥ 0.01 S (i.e. 10 mS), which can reliably capture the voltage drop.
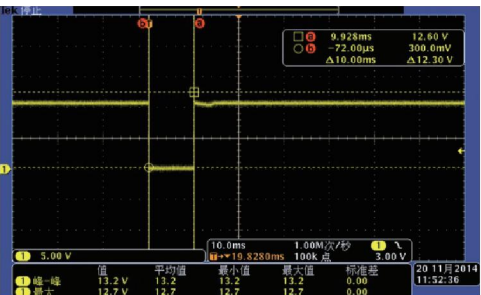
CP8102   CP8103

CP8104   CP8108

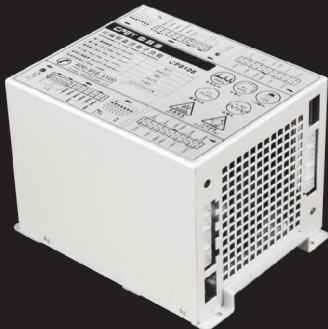| Model	CP8102	CP8103	CP8108	CP8118
Input voltage range	0~500V	0~500V	0~500V	0~500V
Input current range	0.1~10A	0.1~10A	0.1~5A	0.5~5A
Channel number	4CH	4CH	8CH	8CH
Single channel power	100W	125W	40W	40W
Pull mode	CC/CV/LED/CR/CP	CC/CV/LED/CR/CP	CC/CV/LED/CR/CP	CC/CV/LED/CR/CP
Votage comtrol precision	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS
Voltage accuoacy	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS
Current control accuracy	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS
Current readback accuracy	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS
Communication mode	RS-485	RS-485	RS-485	RS-485
Channel isolation	Y	Y	Y	N

Model	CP8114 Lamp bead	CP8130 Lamp bead	CP8104	CP8119
Input voltage range	0~400V	0~200V	0~500V	0~500V
Input current range	0.5~1A	0.5~1A	0.1~10A	0.5~5A
Channel number	4CH	4CH	4CH	8CH
Single channel power	75W	100W	150W	60W
Pull mode	LED	LED	CC/CV/LED/CR/CP	CC/CV
Votage comtrol precision	——	——	±1%+0.5%FS	±1%+0.5%FS
Voltage accuoacy	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS
Current control accuracy	——	——	±1%+0.5%FS	±1%+0.5%FS
Current readback accuracy	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS
Communication mode	RS-485	RS-485	RS-485	RS-485
Channel isolation	Y	Y	Y	N

Programmable electronic DC load CP8100 series

Scope of application

- Isolated & non-isolated LED driver
- TV power, LED backlight driver
- Power charger, adapter
- DC-DC converter
- Power with multiple voltage output and positive & negative voltage output

Outstanding functions

1. Be of five kinds of load modes, such as CC, CV, CR, CP and LED
2. Support simulation of LED steady state operating point, with programmable internal resistance coefficient of LED
3. Support parallel connection of channels under any load modes and meet the requirements for product power extension
4. Support monitoring of peak value and valley value of voltage and current (ripple frequency below 10 KHz)
5. Support the maximum dynamic load of 5K and programmable rising and falling slope of current
6. Programmable current up and down the slope
7. Support settings of Von/Von latch
8. Support output of PWM dimming signals
9. 2 Road extension logic signal output
10. Support anomaly detection of voltage and current output above 100 us
11. Apply 6½ regulator to calibrate automatically
12. Meet the requirements for burn-in test of power from low voltage to high voltage and from low current to large current
13. Isolate through multi-channels, and support burn-in test for isolated & non-isolated power and multi-channel output power
14. Support output for PASS/FAIL detecting signals of tested module
15. Be of protection functions for over-temperature, over-current and over-power

CP8509

CP8523

Programmable energy saving feedback
DC load CP8500 series

Scope of application

- Apply to the burn-in testing of Adapter, Industrial power supply, Switching power supply,LED driver and other kind of power supply
- Apply to aging vehicles ,burn-in cabinet,burn-in room,automatic burn-in testing system
- Battery discharge burn-in testing

Outstanding functions

1. Channel take independent control
2. Efficiency is more than 85%
3. Support Von setting
4. CC / CV load mode
5. Output take EMC progress
6. Harmonic correction of power harmonic
7. Support parallel connection of channel under CC load mode
8. RS485 Communication Structure is industrial grade
9. Correction of power factor
10. Electrical isolation of input and output power
11. 180-264VAC wide voltage output
12. Remote acquirement of voltage with high measurement precision
13. High-frequency soft switching technology, with small size, high efficiency
14. Safety requirements designed to meet the safety standards of information technology equipment
15. With the functions of output short circuit protection, over-current protection, over-voltage protection, islanding protection, input over-voltage/under-voltage protection

Model	CP8508	CP8509	CP8512	CP8513
Input voltage range	3~60Vdc	10~100Vdc	3~60Vdc	3~60Vdc
Input current range	0.5~20Adc	0.5~10Adc	0.5~40Adc	0.5~60Adc
Channel number	8CH	8CH	4CH	6CH
Single channel power	250W	250W	550W	1100W
Pull mode	CC/CV/CR/CP	CC/CV/CR/CP	CC、CV、LED、CR、CP	CC、CV、LED、CR、CP
Votage comtrol precision	±2%+0.5%FS	±1%+0.2%FS	±2%+0.5%FS	±2%+0.5%FS
Voltage accuoacy	±1%+0.5%FS	±1%+0.2%FS	±1%+0.5%FS	±1%+0.5%FS
Current control accuracy	±2%+0.5%FS	±1%+0.2%FS	±5%+0.5%FS	±3%+0.5%FS
Current readback accuracy	±1%+0.5%FS	±1%+0.2%FS	±1%+0.5%FS	±1%+0.5%FS
Output voltage/ current	72V/28A	120V/17A	56V/57A	RS-485
Communication mode	RS-485	RS-485	RS-485	RS-485
I/O isolation	N	N	N	N
Interchannel isolation	N	N	N	N
Fast charge protocol	N	N	N	N
Paired inverter	CP5309	CP5310	CP5309	CP5309

Model	CP8514	CP8523	CP8524	CP8525	CP8526
Input voltage range	8~420Vdc	10~420Vdc	8~600Vdc	8~420Vdc	3~60Vdc
Input current range	0.2~12Adc	0.5~12.5Adc	0.5~12.5Adc	0.2~12Adc	0.5~20Adc
Channel number	6CH	4CH	4CH	8CH	8CH
Single channel power	550W	600W	600W	250W	250W
Pull mode	CC、CV、LED、CR、CP	CC、CV、LED、CR、CP	CC、CV、LED、CR、CP	CC、CV、LED、CR、CP	CC、CV、LED、CR、CP
Votage comtrol precision	±2%+0.5%FS	±2%+0.5%FS	±2%+0.5%FS	±2%+0.5%FS	±1%+0.2%FS
Voltage accuoacy	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS	±1%+0.2%FS
Current control accuracy	±3%+0.5%FS	±3%+0.5%FS	±3%+0.5%FS	±3%+0.5%FS	±1%+0.2%FS
Current readback accuracy	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS	±1%+0.2%FS
Output voltage/ current	72V/42A	380V/6A	380V/6A	380V/2A	380V/2A
Communication mode	RS-485	RS-485	RS-485	RS-485	RS-485
I/O isolation	N	Y	Y	Y	Y
Interchannel isolation	N	Y	Y	Y	Y
Fast charge protocol	N	N	N	N	QC2.0、QC3.0、QC4.0、PD2.0、PD3.0、PD3.1、FCP、SCP
Paired inverter	CP5309	CP5312	CP5312	CP5312	CP5312

Programmable integrated energy-saving feedback DC load CP8600 series

Scope of application

- Apply to the burn-in testing of Industrial power supply,ATX power supply communication power supply,BMP module,mining power suply,vehicle power supply and other kind of power supply
- Apply to Burn-in vehicles ,Burn-in cabinet,Burn-in room,automatic burn-in testing system
- Battery discharge burn-in testing

Outstanding functions

1. Channel take independent control
2. Efficiency is more than 85%
3. Support Von setting
4. CC / CV / CR / CP load mode
5. Output take EMC progress
6. Harmonic correction of power harmonic
7. Support parallel connection of channel under CC load mode
8. RS485 Communication Structure is industrial grade
9. Correction of power factor
10. Electrical isolation of input and output power
11. 180-264VAC wide voltage output
12. Remote acquirement of voltage with high measurement precision
13. High-frequency soft switching technology, with small size, high efficiency
14. Safety requirements designed to meet the safety standards of informationtechnology equipment
15. DD+DA Energy-saving load module and inverter combination design
16. With the functions of output short circuit protection, over-current protection, over-voltage protection, islanding protection, input over-voltage/under-voltage protection

Performance parameters

Model	CP8601	CP8602	CP8603	CP8620
Input voltage range	3~60V	10~120V	3~70V	35~240V
Input current range	0.5~20Adc	0.5~60A	0.5~120A	0.2~5A
Channel number	4CH	4CH	4CH	12CH
Single channel power	800W	800W	1600W	500W
Pull mode	CC、CV、LED、CR、CP	CC、CV、LED、CR、CP	CC、CV、LED、CR、CP	CC、CV、LED、CR、CP
Votage comtrol precision	±2%+0.5%FS	±1%+0.2%FS	±2%+0.5%FS	±2%+0.5%FS
Voltage accuoacy	±1%+0.5%FS	±1%+0.2%FS	±1%+0.5%FS	±1%+0.5%FS
Current control accuracy	±2%+0.5%FS	±1%+0.2%FS	±5%+0.5%FS	±3%+0.5%FS
Current readback accuracy	±1%+0.5%FS	±1%+0.2%FS	±1%+0.5%FS	±1%+0.5%FS
Type of load	Single phase AC grid connection	Single phase AC grid connection	Single phase AC grid connection	Single phase AC grid connection
Output voltage range	180~240VAC	180~240VAC	180~240VAC	180~240VAC
Output rated voltage	220VAC 50Hz	220VAC 50Hz	220VAC 50Hz	220VAC 50Hz
Output grid-connected current	25A Max.	25A Max.	30A Max.	33A Max.
Tracking frequency range	47~63Hz	47~63Hz	47~63Hz	47~63Hz
Current harmonic (THD)	≤3%	≤3%	≤3%	≤3%
Dc injection component	≤5mA	≤5mA	≤5mA	≤5mA
Protection function	Over voltage, under voltage, over current, over temperature, short circuit, over frequency, under frequency			
Communication mode	RS-485	RS-485	RS-485	RS-485
I/O isolation	Y	Y	Y	Y
Interchannel isolation	Y	Y	Y	Y

Model	CP8401	CP8402	CP8403	CP8404
Input voltage range	85~260Vac	85~260Vac	90~280Vac	260~530Vac
Input current range	0.5~6Aac	0.5~10Aac	0.5~32Aac	0.5~32Aac
Number of channels	4CH	4CH	1CH	1CH
Single-channel power	600W	1600W	7KW	20KW
Voltage control accuracy	±2%+0.5%FS	±2%+0.5%FS	±2%+0.5%FS	±2%+0.5%FS
Voltage read back accuracy	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS	±2%+0.5%FS
Current control accuracy	±2%+0.5%FS	±2%+0.5%FS	±2%+0.5%FS	±2%+0.5%FS
Current readback accuracy	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS	±1%+0.5%FS
Output voltage	10~48Vdc	400Vdc	50~750V	50~750Vdc
Output current	0~45Adc	0~6Adc	0~20A	0~50A
Pull-load mode	CP、CC	CP、CC	CP、CC	CP、CC
I/O isolation	Y	Y	Y	Y
Interchannel isolation	Y	Y	N	N
Communication mode	RS-485	RS-485	CAN	CAN

Programmable energy saving feedback AC load CP8400 series

Scope of application

- Independent burn-in trolley, Burn-in rack, Burn-in room
- Discharge burn-in test of various AC output equipment (compatible with sine wave and square wave)
- Energy-saving and burn-in of AC output of vehicle inverter

Outstanding functions

1. Independent load unit, supporting burn-in test of multiple groups of different output power supplies
2. Use low-voltage power supply system to improve safety
3. Over temperature protection, over current protection, over voltage protection, over power protection
4. Up to 92% conversion efficiency
5. High precision
6. The output is connected in parallel to the DC power supply, which greatly reduces the power supply current required by the DC power supply
7. Fully isolated RS485 communication
8. Rugged shell structure and excellent heat dissipation system
9. High quality and cost-effective
10. Slowly adjust the power, it is not easy to make the customer's product current overcharge protection

Programmable energy saving AC-DC two-way source load CP8800 series

Scope of application

- Independent Burn-in trolley, Burn-in rack, Burn-in room
- Battery charge and discharge test

Outstanding functions

1. AC-DC two-way conversion, it can be used as a power supply or as a feedback load, one machine for multiple purposes
2. Soft switching technology, high conversion efficiency, the highest efficiency reaches 95%
3. Integrated PFC function, high power factor, low THD, grid-friendly equipment
4. Plug-in frame structure, easy to install and maintain
5. Support source CC, CV mode, load CC, CV, CP, CR mode
6. In CV mode, support automatic switching between source and load
7. Complete protection functions, such as over current, over voltage, overload, over temperature, under voltage, short circuit, fan failure, etc.
8. Fully isolated RS485 communication, CAN communication
9. Fully digital control, digital monitoring electronic load
10. Robust shell structure and excellent heat dissipation system
11. High quality and cost-effective

Performance parameters

Model	CP8801	CP8802	CP8803	CP8804
Dc side voltage range	50~800Vdc	50~1000V	100~750V	60~80V
Dc current range	0~50A	0~30A	0~25A	0~30A
Channel number	1CH	1CH	1CH	2CH
Single channel power	15KW	7KW	7KW	2KW
Pull mode	CC、CV	CC、CV、LED、CR、CP	CC、CV	CV
Votage comtrol precision	±2%+0.5%FS	±1%+0.2%FS	±2%+0.5%FS	±2%+0.5%FS
Voltage accuoacy	±1%+0.5%FS	±1%+0.2%FS	±1%+0.5%FS	±1%+0.5%FS
Current control accuracy	±2%+0.5%FS	±1%+0.2%FS	±5%+0.5%FS	±3%+0.5%FS
Current readback accuracy	±1%+0.5%FS	±1%+0.2%FS	±1%+0.5%FS	±1%+0.5%FS
Type of load	Three-phase AC grid connection	Single phase AC grid connection	Single phase AC grid connection	Single phase AC grid connection
Ac side voltage range	260~485VAC	180~240VAC	180~240VAC	180~240VAC
Rated AC side voltage	380VAC 50Hz	220VAC 50Hz	220VAC 50Hz	220VAC 50Hz
Ac grid-connected current	23A Max.	30A Max.	32A Max.	12A Max.
Tracking frequency range	47~63Hz	47~63Hz	47~63Hz	47~63Hz
Current harmonic (THD)	≤5%	≤5%	≤5%	≤5%
Dc injection component	≤5mA	≤5mA	≤5mA	≤5mA
Protection function	Over voltage, under voltage, over current, over temperature, short circuit, over frequency, under frequency			
Communication mode	CAN	RS-485	CAN	RS-485
I/O isolation	Y	Y	Y	Y
Interchannel isolation	Y	Y	Y	Y

Model	CP8703	CP8704	CP2127
Port 1 Input and output voltage range	3~60Vdc	50~1000V	3~20V
Port 1 Input/output current range	0.1~60Adc	0.1~30Adc	0.1~5Adc
Port 2 Input and output voltage range	72Vdc	400Vdc	24V
Port 2 Input and output current ranges	22A Max	16A Max	33A Max
Voltage control accuracy	±2%+2‰FS	±2%+2‰FS	±1%+2‰FS
Voltage read back accuracy	±2%+2‰FS	±2%+2‰FS	±1%+2‰FS
Current control accuracy	±2%+2‰FS	±2%+2‰FS	±1%+2‰FS
Current readback accuracy	±2%+2‰FS	±2%+2‰FS	±1%+2‰FS
Number of channels	4	1	8
Single-channel power	1600W	6000W	100W
I/O isolation	N	Y	N
Pull-load mode	CC、CV、LED、CR、CP	CC、CV、LED、CR、CP	CC、CV、LED、CR、CP
Communication mode	Y	Y	Y
Fast charge protocol	N	N	PD、QC

Programmable energy saving DC-DC two-way source load CP8700 series

Scope of application

- DC-DC power Burn-in test
- Battery charging and discharging Burn-in test
- Battery inspection test

Outstanding functions

1. Green, environmentally friendly, energy-saving; one thing is multi-purpose, two-way conversion, saving materials, testing multiple products at the same time, improving production efficiency; multiple battery packs are burn-in at the same time, energy is directly converted into each other in the battery pack, the efficiency is very high, the whole machine The highest efficiency is >93%
2. Wide range of voltage and current, RS485 or CAN communication program control, users can realize flexible control of charging and discharging according to their own battery characteristics
3. Support charging CC (constant current), CV (constant voltage), CP (constant power), discharging CC (constant current), CR (constant resistance), as the source load can also realize the LED working mode
4. 24-bit AD industrial-grade high-precision sampling and DSP chip fast and high-precision control
5. With over temperature protection, over current protection, over voltage protection, over power protection
6. Full digital control, digital monitoring source load
7. Rugged shell structure and excellent heat dissipation system
8. High quality and cost-effective