

WO CEN

COMPANY PROFILE

To become the world's leading supplier
of test power and system

WOCEN

Built in

2002

Located in

Jinan, Shandong

Cover

20000m²

Focus on

**Power electronics
technology field**

Main Business

AC/DC test power supply

**Testing load required for building
a testing system**

2002—Present

2002

Shenzhen Huayuan Ruike
Electronics Co., Ltd.

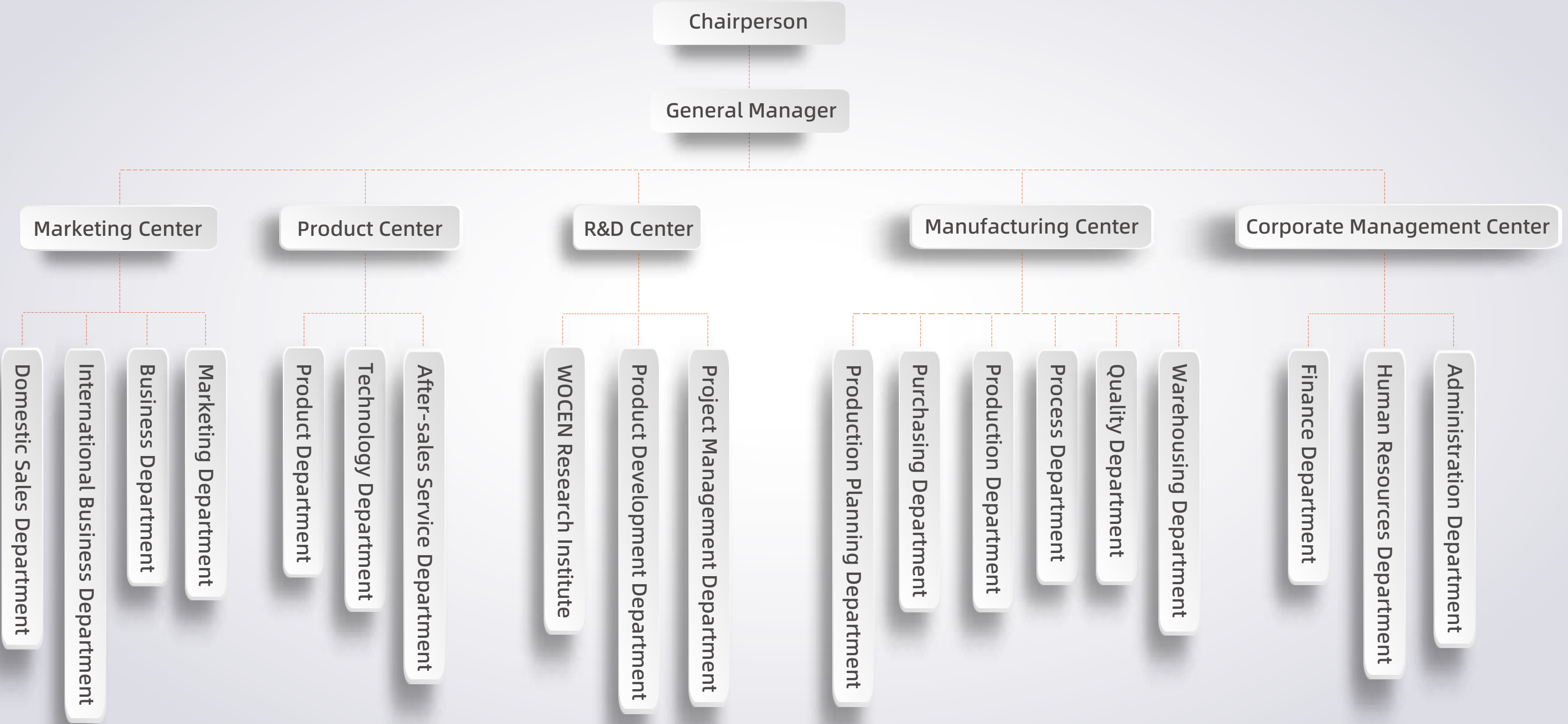
2007

Suzhou Wocen Power Source
Equipment Co., Ltd.

2008 till now

Shandong Wocen Power Source
Equipment Co., Ltd.

Organizational Structure

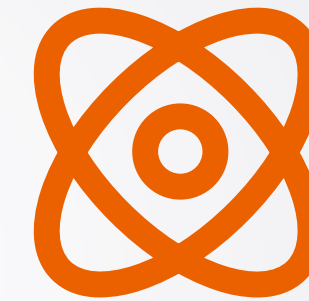




Total employees
200+



Bachelors and
above
45%



R&D personnel
35%

WOCEN



HIGH-TECH
ENTERPRISE



SHANDONG
GAZELLA
COMPANY



SHANDONG
INNOVATIVE
ENTERPIRISE



S.R.D.I



CE
CERTIFICATION



ISO9001
CERTIFICATION



ISO14001
CERTIFICATION



SHANDONG
UNIVERSITY
PRICTICE BASE

CORPORATE
QUALIFICATION

Marketing Center

WOCEN



Typical Clients



Serving Clients:

FAW, BYD, GAC, Geely, TATA(India), SAIC, Dongfeng, Changan, Volkswagen, Ford, Nissan, Jinkang, Ideal, NIO, Xiaopeng, Jianghuai, Chery, BAIC, Yutong, CRRC, Sany Heavy Industry, Heavy Duty Truck, Shaanxi Heavy Duty Truck, Weichai, Yuchai, Zoomlion Heavy Industry, Huawei, Lianhe Electronics, Bosch, BorgWarner, ZF, Huayu Magna, Nippon Electric Jingjin Electric, Dayang Electric, Shanghai Electric Drive, Kebo Easy Control, Green Control, InBev, Faster, Qingshan Industry, etc

Serving authoritative domestic certification and testing institutions:

China Automotive Technology & Research Center (CATARC) and its subsidiaries, China Automotive Engineering Research Institute (CAERI), SMVIC, China Merchants Testing Vehicle Technology Research Institute Co., Ltd., etc.

Serving domestic and international production lines :

Wuxi Lead Intelligent Equipment, Dalian Haosen Equipment Manufacturing, KUKA Flexible Manufacturing Systems, Hangzhou Wolei Intelligent Sci-tech, Jiangsu Cowain Automation Technology, Suzhou Harmontronics Automation Technology, Suzhou Linktron Electronic Technology, Suzhou Dexingyun, Guangzhou chuangzhi, Jee Technology Co.,Ltd., etc.

Serving dynamometer supporting supplier:

AVL, HORIBA, Siemens Drives Technologies, ZF Group, MEIDEN, FEV, GEFFIE, JI CE, ITI TECH, Shanghai H-Reilhofer Automation Test Tech. , Shanghai W-lbeda High Tech.Group, Jiangsu Liance Electromechanical Technology, Chongqing CTL measurement and control, Chongqing CAERI Test Equipment, Hexia Technology, Sichuan Chengbang Investment Development, XiangYi (HongKong) Power Testing Instrument,Wuxi Langdi Information Technology, CAMA(luoyang)Electromechanic Equipment, etc.

P R O D U C T A P P L I C A T I O N

PRODUCT APPLICATION

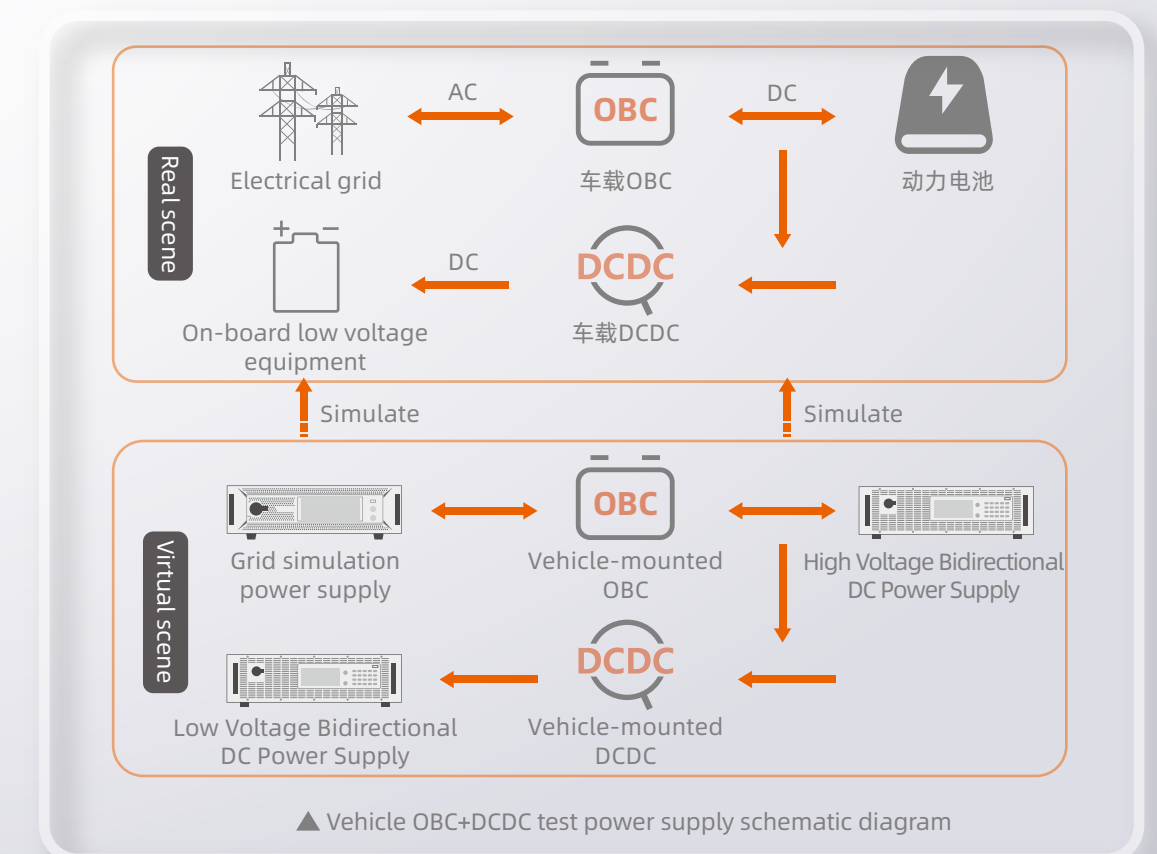
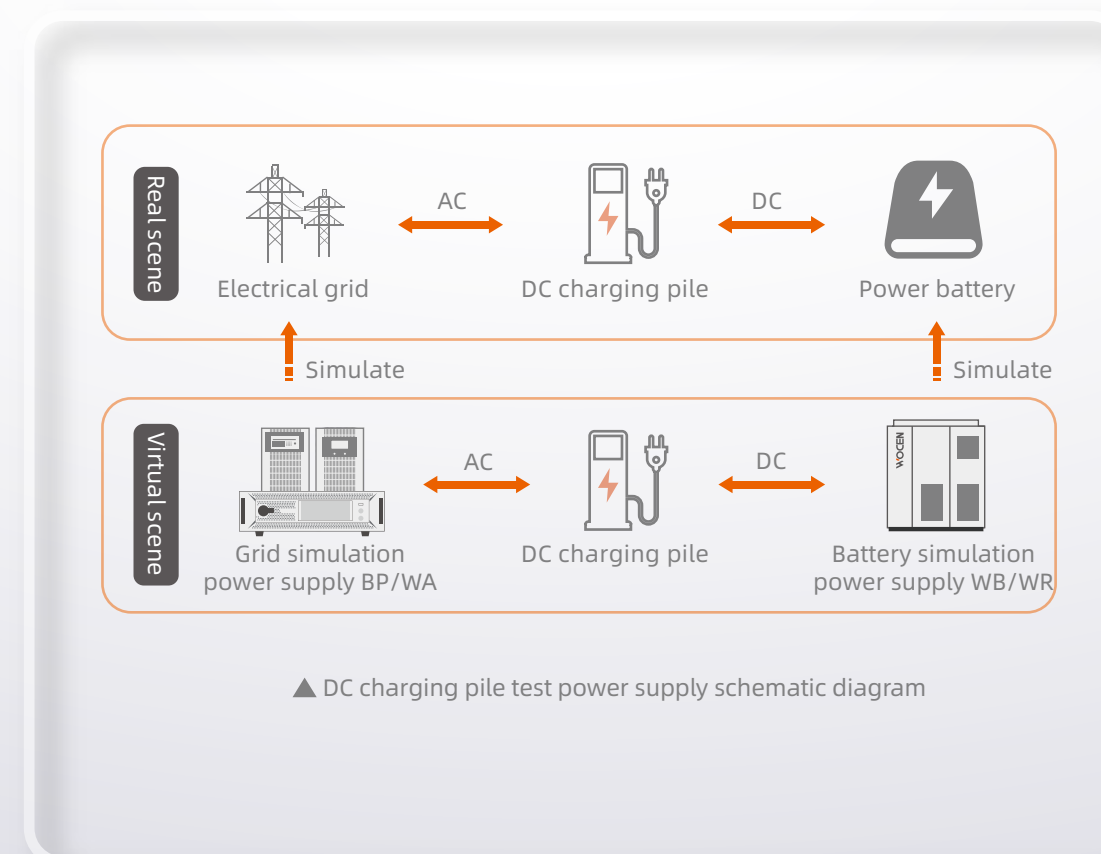
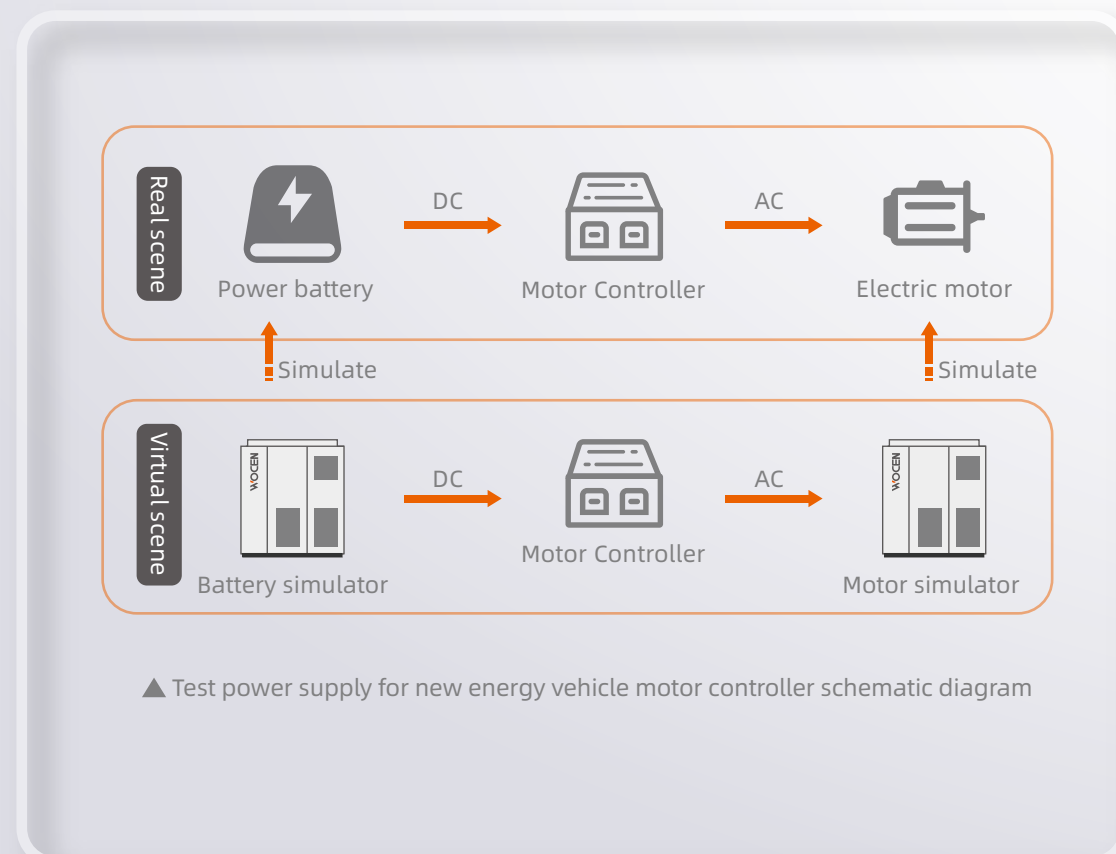
Application

New energy vehicle field

Test power supplies are widely used in new energy vehicles. They are required for the research, development, production, and testing of **power batteries**, **electric drive systems**, **vehicle power systems**, **charging piles**, and **other electrical components**. Third-party testing institutions and downstream vehicle manufacturers all need to use test power supplies.

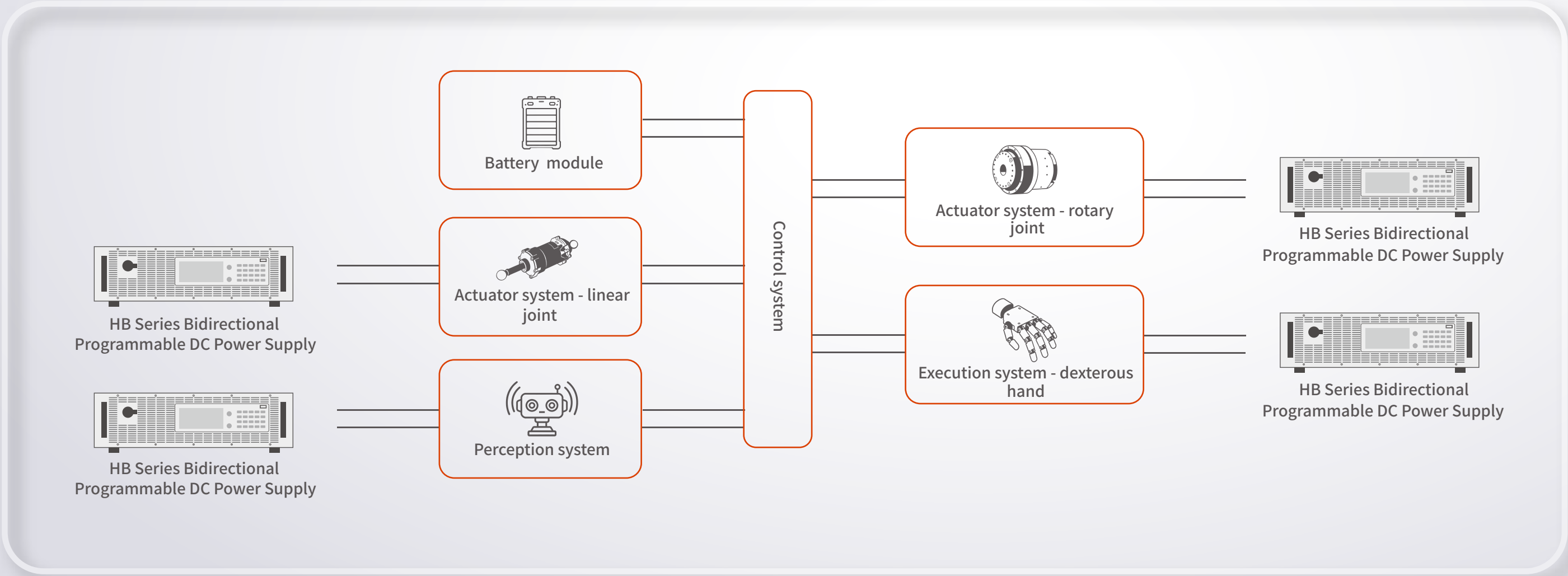
Battery simulator: accurately simulates different parameters of the battery to test the efficiency, stall, overspeed, power feeding, overload, and other performance of the electric drive system, and can replace the real battery to test the DC charging pile;

Grid simulator: simulates special working conditions such as voltage changes, harmonics, flicker, etc., and can be used for the grid adaptability test of the charging pile.



Humanoid Robot Field

With the rapid development of technologies such as AI, IOT and 5G, the robotics industry has witnessed explosive growth worldwide. The humanoid robot testing solutions provided by Wocen Power can meet the testing requirements for its rotating joints, linear joints and dexterous hands.



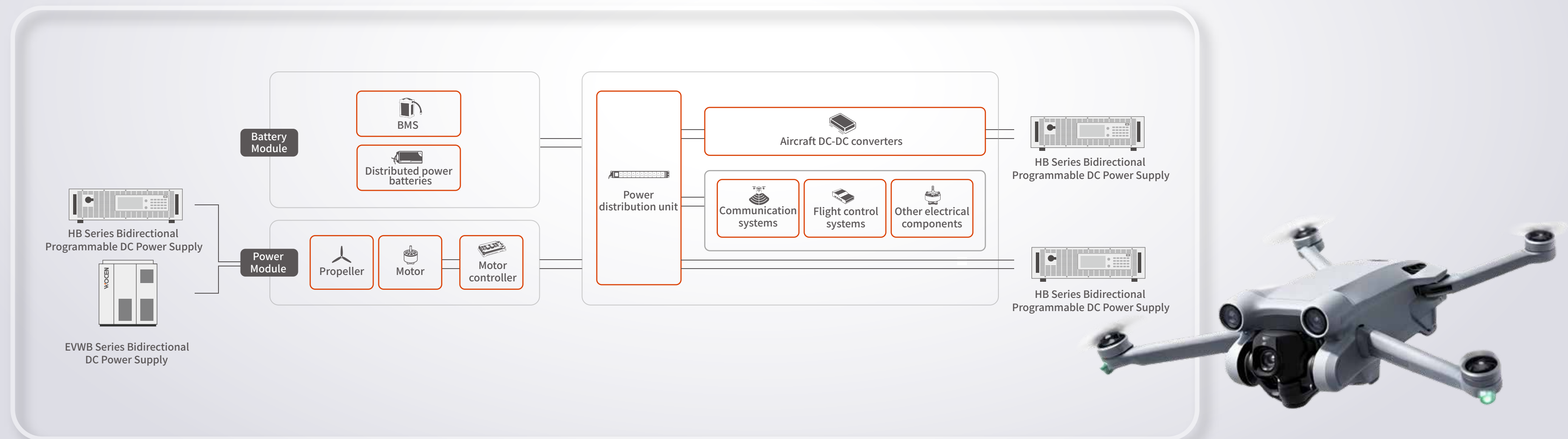
▲ Application Schematic Diagram in the Humanoid Robot Field



Application

New energy vehicle field

The battery PACK charge and discharge test system is an automated test system that integrates a bidirectional DC test power supply, an environmental chamber, a water chiller, and other third-party equipment. It is mainly used in power batteries for new energy vehicles and energy storage batteries in the energy storage field. This test system is required for the research and development, production, third-party testing agencies, and downstream vehicle manufacturers of battery PACKs.



▲ Schematic Diagram of Applications in the UAV Field

Application

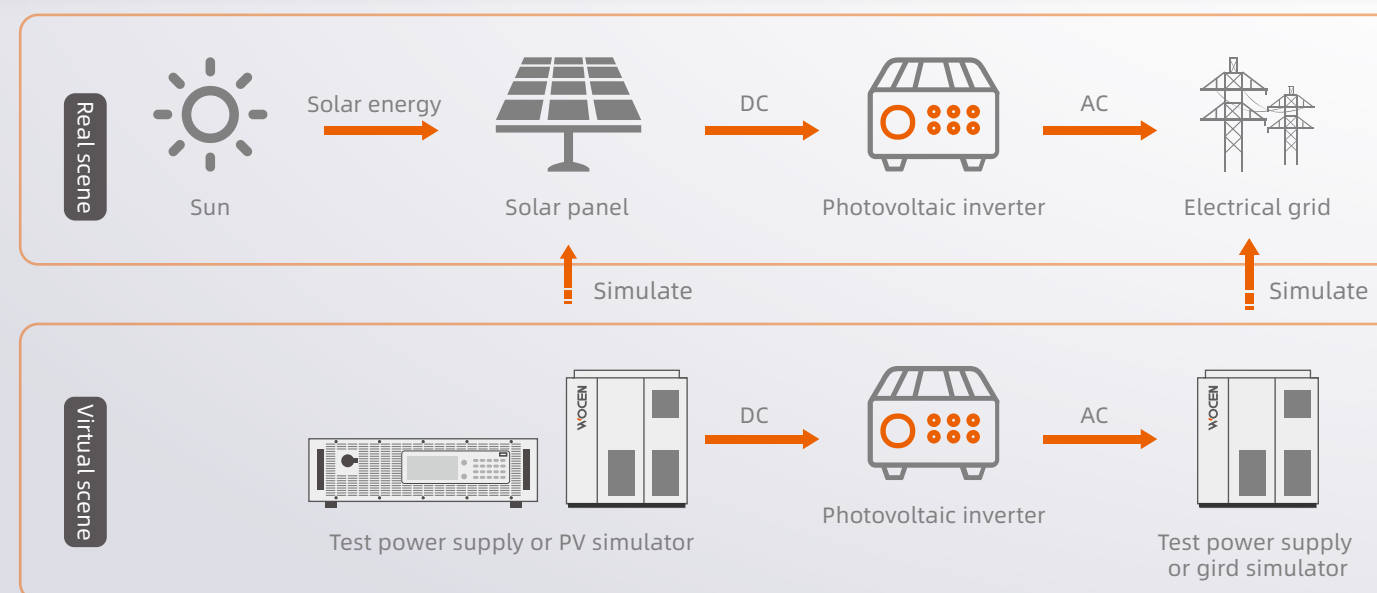
New energy generation field

The main application of high-power test power supplies in the field of renewable energy power generation is to test **photovoltaic inverters**, core components of photovoltaic power generation, **energy storage converters** and **energy storage battery packs**, core components of energy storage power generation, as well as grid-connected adaptability testing of generator sets. It can also be used for solar panels, photovoltaic junction boxes and other components.

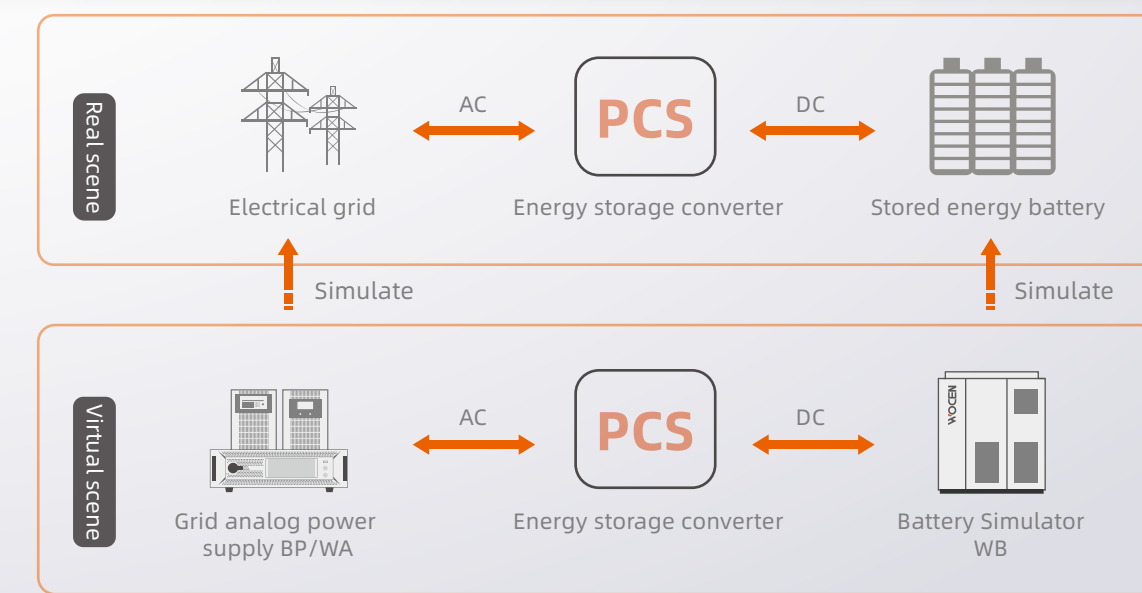
Taking photovoltaic inverters as an example, test power supplies are required in each stage of their R&D and production:

Design and development: During the prototype development and finalization stages, the R&D team and third-party testing organizations need to test and verify product performance and functions, whether they meet international/national standards, and whether they meet mass production/supply conditions. They need to test the power supply to simulate various complex working conditions, grid voltage, abnormal grid working conditions, and fully simulate the characteristics of photovoltaic solar panels;

Production application: After the product is assembled, it needs to undergo offline testing, factory testing, aging screening tests, and other tests. Before formal grid-connected power generation, it needs to undergo grid adaptability testing.



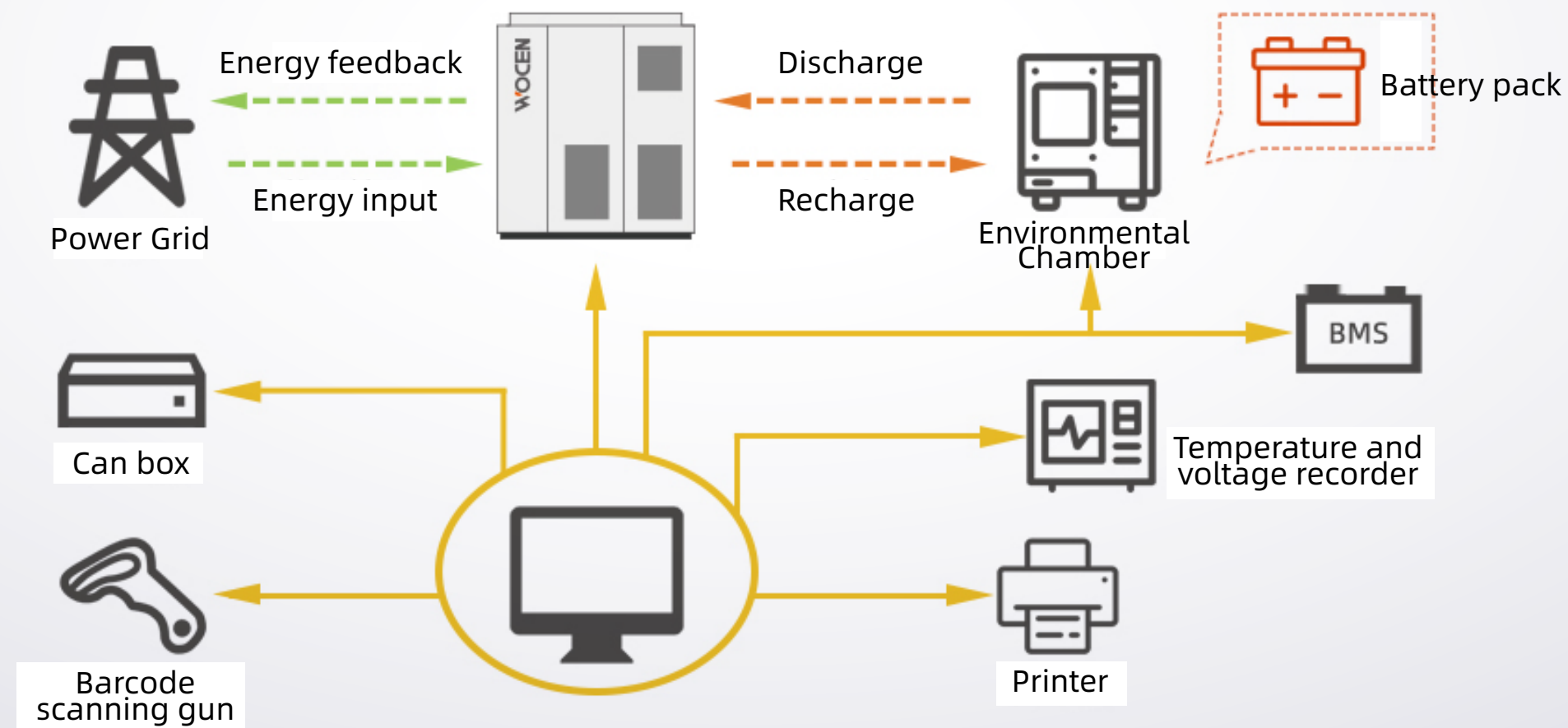
▲ Schematic diagram of test power supply for photovoltaic inverter



▲ Energy storage converter test schematic

Battery PACK Testing Application Field

The battery PACK charge and discharge test system is an automated test system that integrates a bidirectional DC test power supply, an environmental chamber, a water chiller, and other third-party equipment. It is mainly used in power batteries for new energy vehicles and energy storage batteries in the energy storage field. This test system is required for the research and development, production, third-party testing agencies, and downstream vehicle manufacturers of battery PACKs.

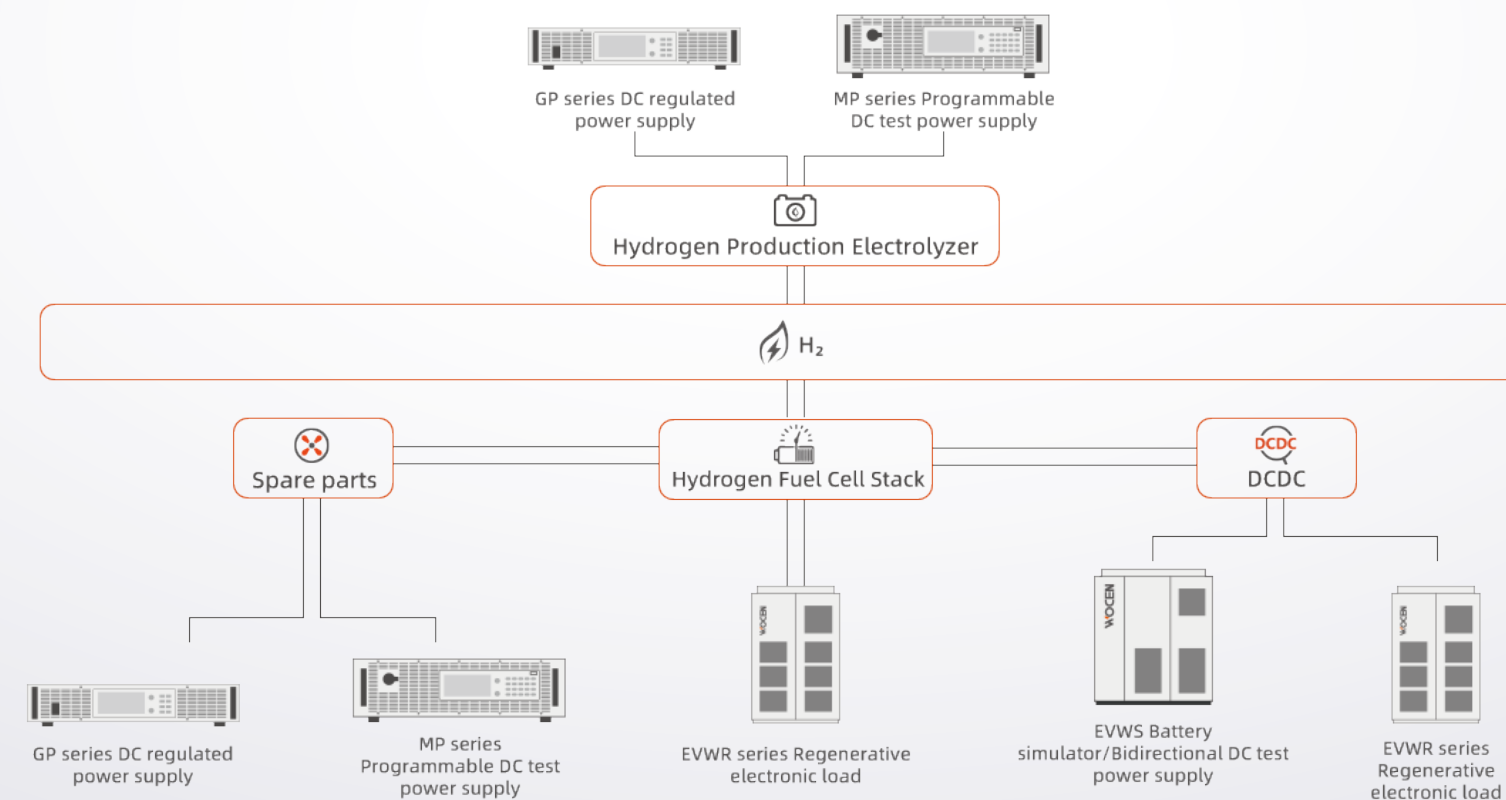


▲ Battery PACK test system diagram

Application

Hydrogen energy field

As a supplement to electricity, the hydrogen energy industry is the key development direction in the future. Green hydrogen production and hydrogen fuel cell vehicles have entered a period of rapid growth. DC power supplies are mainly used in the research and development and testing of hydrogen production electrolyzers and PEM water electrolysis for hydrogen production. Feedback DC loads are mainly used in the research and development, production, aging, third-party testing agencies, and downstream vehicle manufacturers of hydrogen fuel cell electric propulsion, hydrogen fuel cell engines, and DCDC of hydrogen fuel cells.



▲ Hydrogen energy application diagram

P R O D U C T L I N E

FULL PRODUCT LINE

WOCEN POWER

Product Line

- EVWB Series Bidirectional DC Test Power Supply
- WB3000 Series High-Frequency Bidirectional DC Test Power Supply
- EVWR Series Regenerative Electronic Load
- HB Series Bidirectional Programmable DC Test Power Supply
- MP Series Programmable DC Test Power Supply
- GP Series Programmable DC Test Power Supply (1.5-3kW)
- GP Series DC Regulated Power Supply (10-400kW)
- WA Series Regenerative Grid Simulator
- BP Series Variable Frequency Power Supply
- AP Series Shore Power Supply
- WBTS Series Power Battery PACK Testing System



EVWB Series

Bidirectional DC Test Power Supply

WOCEN

EVWB series bidirectional DC test power supply is specially developed for motor controller, drive motor and vehicle testing in the new energy electric vehicle industry. It adopts core technologies such as four-quadrant PWM rectification, bidirectional BUCK conversion and pure digital control, and has the main features of bidirectional energy flow, 100% energy feedback, high precision, fast transient characteristics, high conversion efficiency, low pollution to the grid, rich communication interfaces and perfect protection functions.

The EVWB series products are equipped with power battery simulation and programming functions as standard.

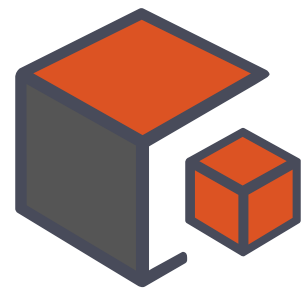
Parameters:

Voltage Level: 800V/1000V/1200V

Current Level: 200A~1200A

Power Level: 50kW~600kW





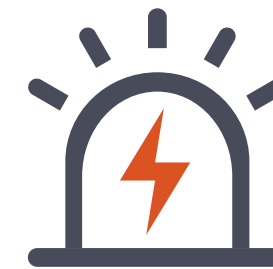
Black box function

The electrical parameters/temperature data before and after the alarm occurs are automatically recorded and stored, providing a basis for fault analysis/data tracing.



Core temperature monitoring function

Real-time monitoring of the operating temperature of power devices such as IGBT (chips), transformers, and reactors to enhance system operation safety.



Pre-alarm/alarm parameters can be set

Customers can set the output U, I, P upper and lower limit warning/alarm parameters according to their working conditions, and the warning and alarm functions can be switched.



Output parameter upper limit can be set

For different test stages or different operators, customers can customize the upper limits of the output U, I, and P settings to prevent unnecessary damage caused by misoperation and improve test security.

EVWB Series

Bidirectional DC Test Power Supply



1.3x Peak Power/Current Rating
High Reliability



**Capacitor Cabinet/Discharge Cabinet/Junction
Box/Insulation Monitoring**
Multiple Optional Configurations



100 Sets of Black Box Data
**Exclusive in the Industry,
Traceable Core Parameters**



Premium & Custom Battery Models
**Meets Both Convenience and
Customization Needs**

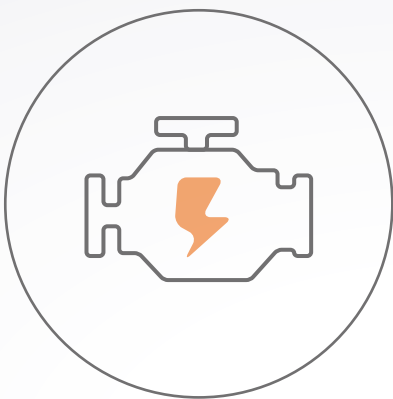
EVWB Series
Bidirectional DC Test Power Supply



Application fields



EV Motor Test
EV Motor Controller Test



Electric Vehicle
Powertrain Test



EV Complete
Vehicle Test



EV DCDC Test



Hybrid Vehicle
Generator Test



EV Axle Test



Drone Application
Fields

WB3000 Series

High-Frequency Bidirectional DC Test Power Supply

WOCEN

The WB3000 series is developed for the research and development and testing of electric vehicle drive motors, electric vehicle powertrain systems, DC charging piles, energy storage converters and many other fields. Compared with the previous generation of products, the EVWB3000 series adopts the new third-generation wide bandgap semiconductor device SiC design. The product focuses more on high frequency, modularization, standardization, and high performance. It is a high-quality bidirectional DC power supply that integrates high precision, high dynamic response and high efficiency.

The mathematical model of the built-in power battery has 10 battery simulation curves (5 typical battery curves are built-in, and 5 battery curves can be customized).

Parameters:

Voltage Level: 1200V

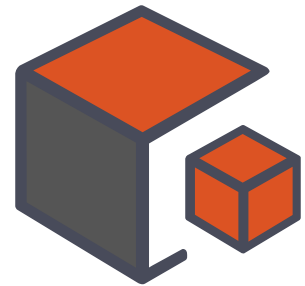
Current Level: 300A~1200A

Power Level: 100kW~600kW



WB3000 Series

High-Frequency Bidirectional DC Test Power Supply



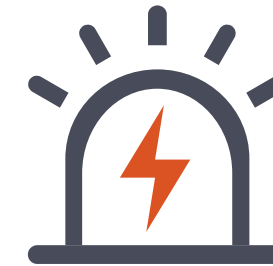
Black box function

The electrical parameters/temperature data before and after the alarm occurs are automatically recorded and stored, providing a basis for fault analysis/data tracing.



Core temperature monitoring function

Real-time monitoring of the operating temperature of power devices such as IGBT (chips), transformers, and reactors to enhance system operation safety.



Pre-alarm/alarm parameters can be set

Customers can set the output U, I, P upper and lower limit warning/alarm parameters according to their working conditions, and the warning and alarm functions can be switched.



Output parameter upper limit can be set

For different test stages or different operators, customers can customize the upper limits of the output U, I, and P settings to prevent unnecessary damage caused by misoperation and improve test security.

WB3000 Series

High-Frequency Bidirectional DC Test Power Supply



**Compact size,
lightweight
design**

**Dual-channel
output**

**Excellent
overcurrent
resistance**

**Superior
reliability**

1.3 X

Peak current capability

0.05%F.S.

Higher accuracy

198kW/m³

High power density

> 95%

High efficiency

**High-level battery
model**

5 standard modes + 5 user-defined modes

200V/ms

Voltage slope

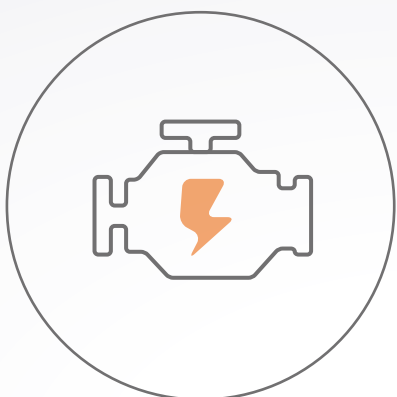
WB3000 Series
High-Frequency Bidirectional DC Test Power Supply



Application fields



EV Motor Test
EV Motor Controller Test



Electric Vehicle
Powertrain Test



EV Complete
Vehicle Test



EV DCDC Test



Hybrid Vehicle
Generator Test



EV Axle Test



Drone Application
Fields

EVWR Series

Regenerative DC Electronic Load

WOCEN

EVWR series regenerative DC electronic load is specially developed for fuel cell engine test, fuel cell stack, fuel cell DCDC test, charging pile aging test, etc. Developed using core technologies such as four-quadrant PWM rectification, DCDC bidirectional BUCK-BOOST conversion, and pure digital control, 100% energy feedback, high precision, rapid transient characteristics, high conversion efficiency, low pollution to the grid, rich communication interfaces, and protection functions perfect and other main features.

Parameters:

Voltage Level: 800V/1000V/1200V

Current Level: 200A~1200A

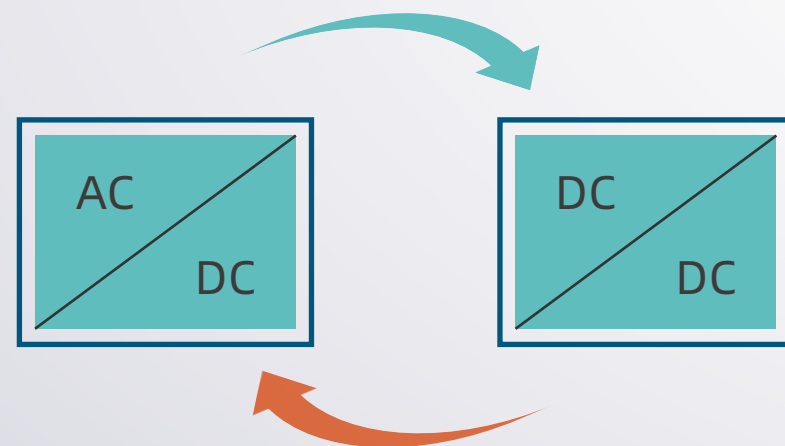
Power Level: 50kW~600kW



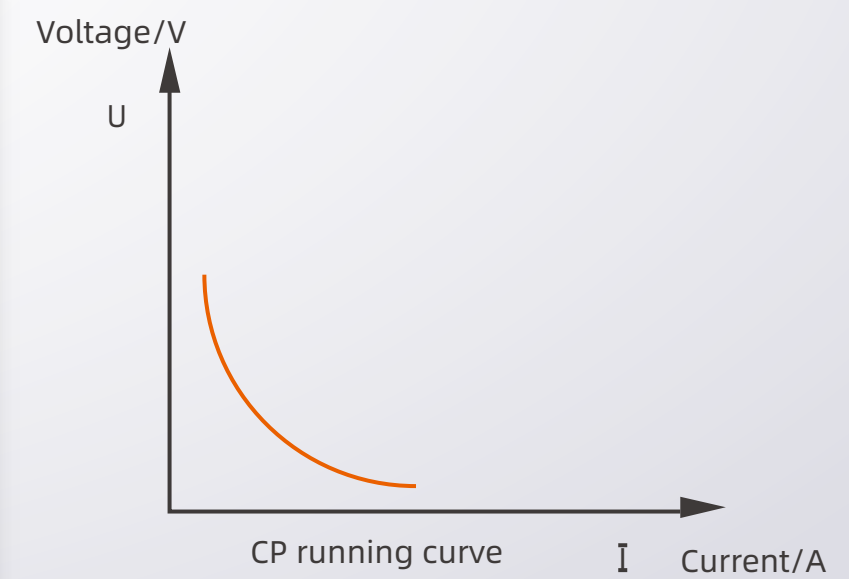
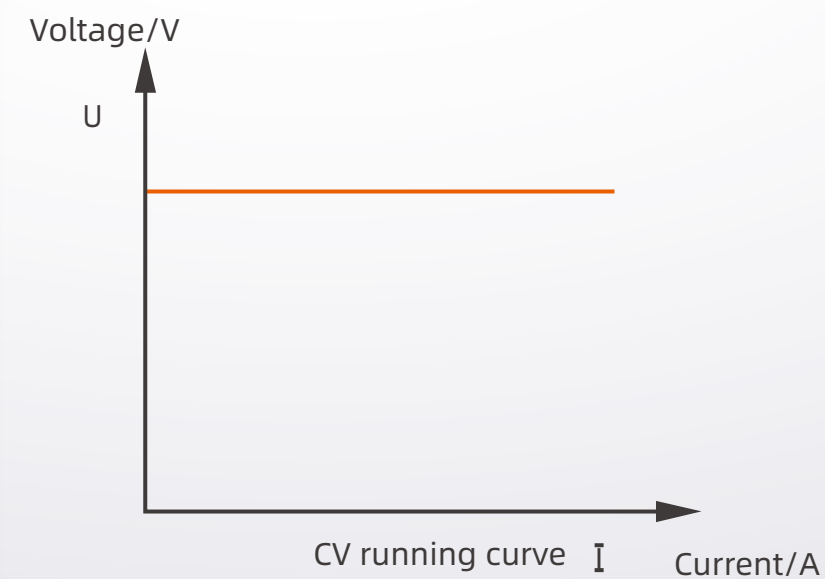
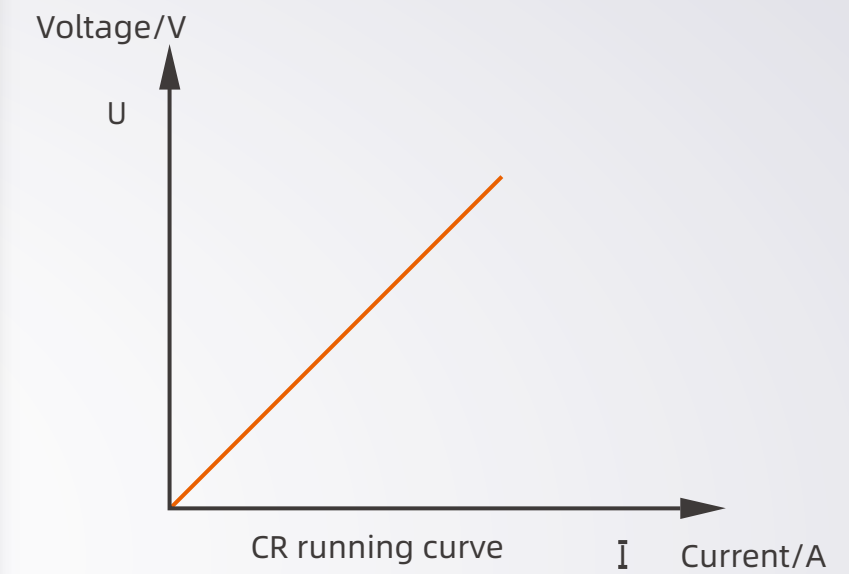
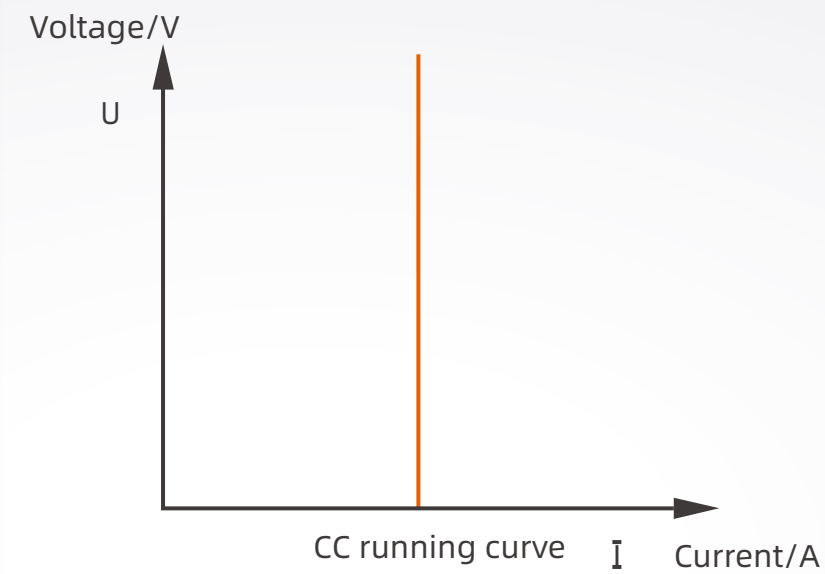


Standard source-load system

One = bi-directional power supply + regenerative load



4 kinds of operating mode





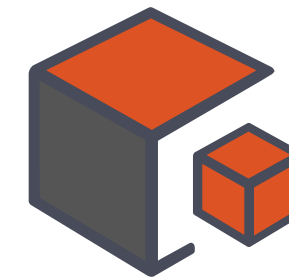
Online real-time insulation monitoring

Real-time online monitoring of the insulation impedance of the DC positive and negative poles to the chassis (ground), triggering the first/second level insulation alarm.



Disconnection monitoring function

Real-time monitoring of the communication status between the upper and lower computers, and communication anomalies trigger disconnection faults.



Black box function

The electrical parameters/temperature data before and after the alarm occurs are automatically recorded and stored, providing a basis for fault analysis/data tracing.



Reverse Polarity Protection

Equipped with DC-side reverse polarity protection to prevent equipment damage caused by reversed positive and negative connections between the stack (or engine) and the load.

0.1%FS

Excellent accuracy indicators

10ms

Fast dynamic characteristics

**Slope can be
adjusted arbitrarily**

Voltage, current and rate adjustable

**Low voltage and
high current**

Low voltage long-term high current load

EVWR Series

Regenerative DC Electronic Load



Application fields



Fuel Cell System
Testing



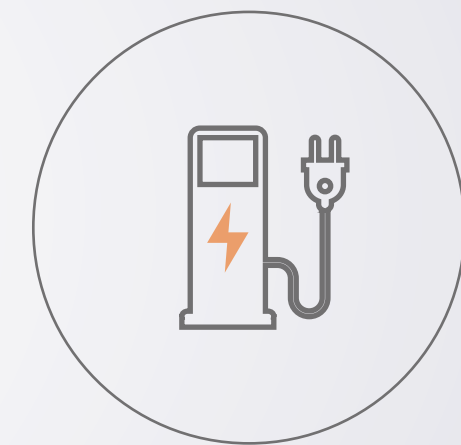
Fuel Cell
DC-DC Testing



Electric Vehicle
Generator Testing



Electric Vehicle
DC-DC Testing



Charging Pile
Testing

HB Series

Bidirectional Programmable DC Test Power Supply



The HB series bidirectional programmable DC test power supply has the characteristics of source and load integration. It can not only provide DC power supply for the load, but also feed back the electric energy to the power grid without pollution. It adopts the international standard 3U chassis and provides a power output capacity of up to 30kW. It provides powerful programmable testing capabilities and embeds a variety of automotive test standards for users to quickly call. It is particularly suitable for early research and development, later type testing, reliability testing and production line product factory testing in the fields of new energy vehicle motors and their controllers, electric vehicle assembly systems, battery testing, automotive electronics, power supply testing, etc.



Electrical Parameter Range:

Voltage Class:

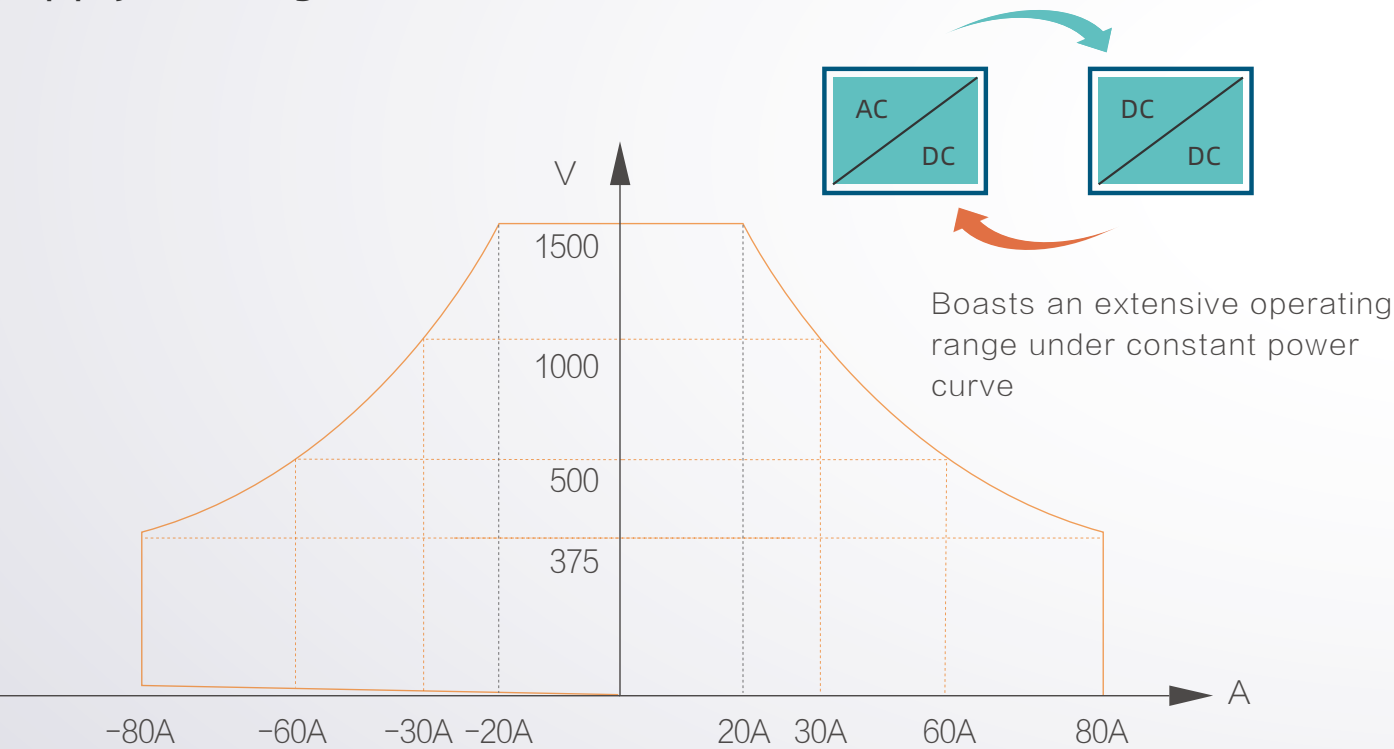
100V/330V/500V/750V/1000V/1500V/2250V

Current Class: 25A~510A

Power Class: 5kW~30kW

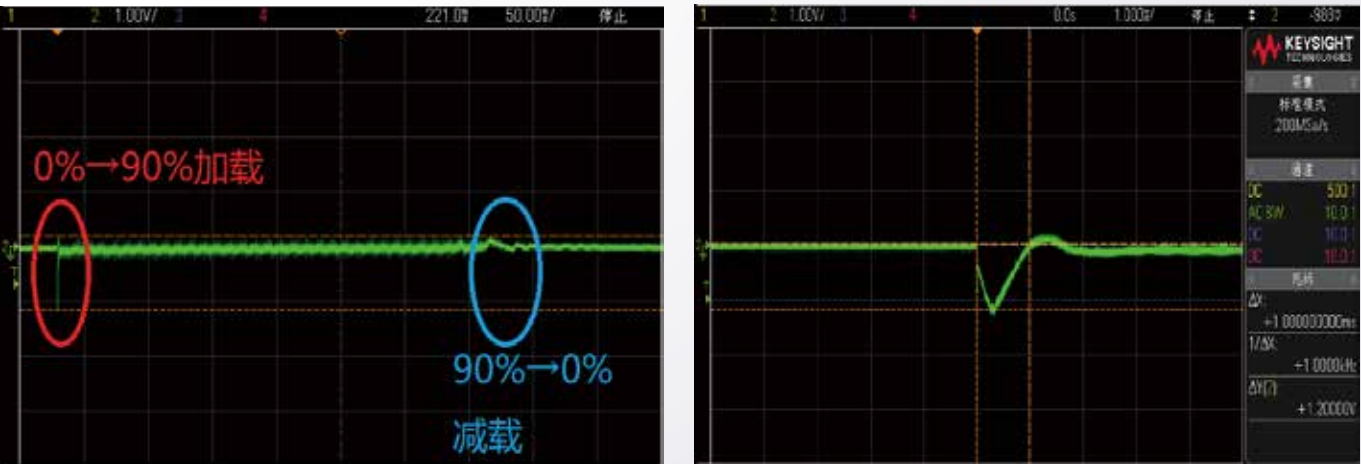
All-in-one source and load design

Bidirectional energy flow, with both programmable DC test power supply and regenerative load characteristics



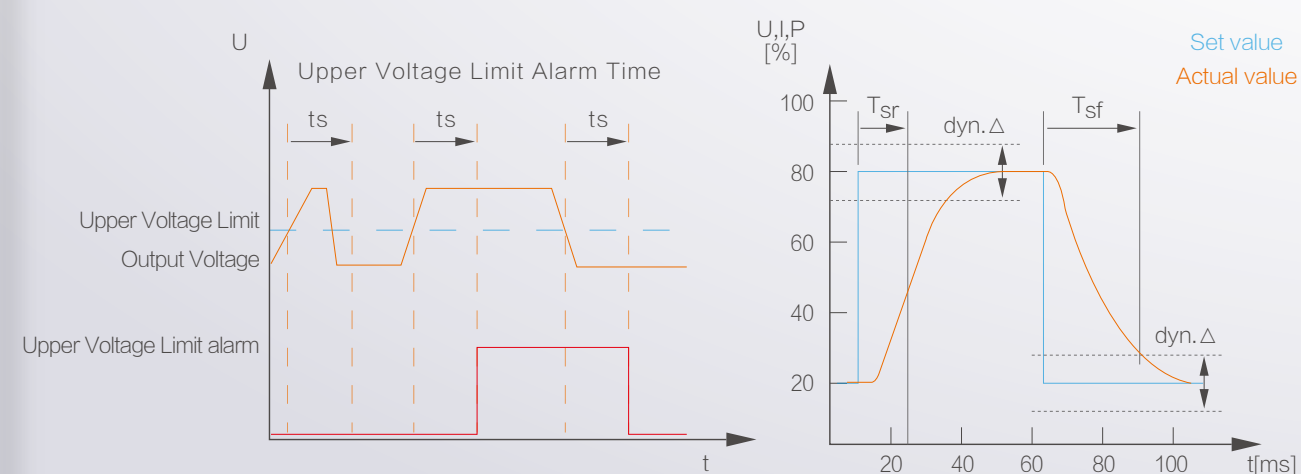
Ultra-fast dynamic response performance

Relying on advanced multi-loop composite control technology, the HB power supply achieves ultra-fast dynamic response. The voltage drop during instant loading is controlled within 1%, there is no voltage fluctuation during unloading, and the dynamic response time is as fast as less than 1.5ms, delivering superior performance.



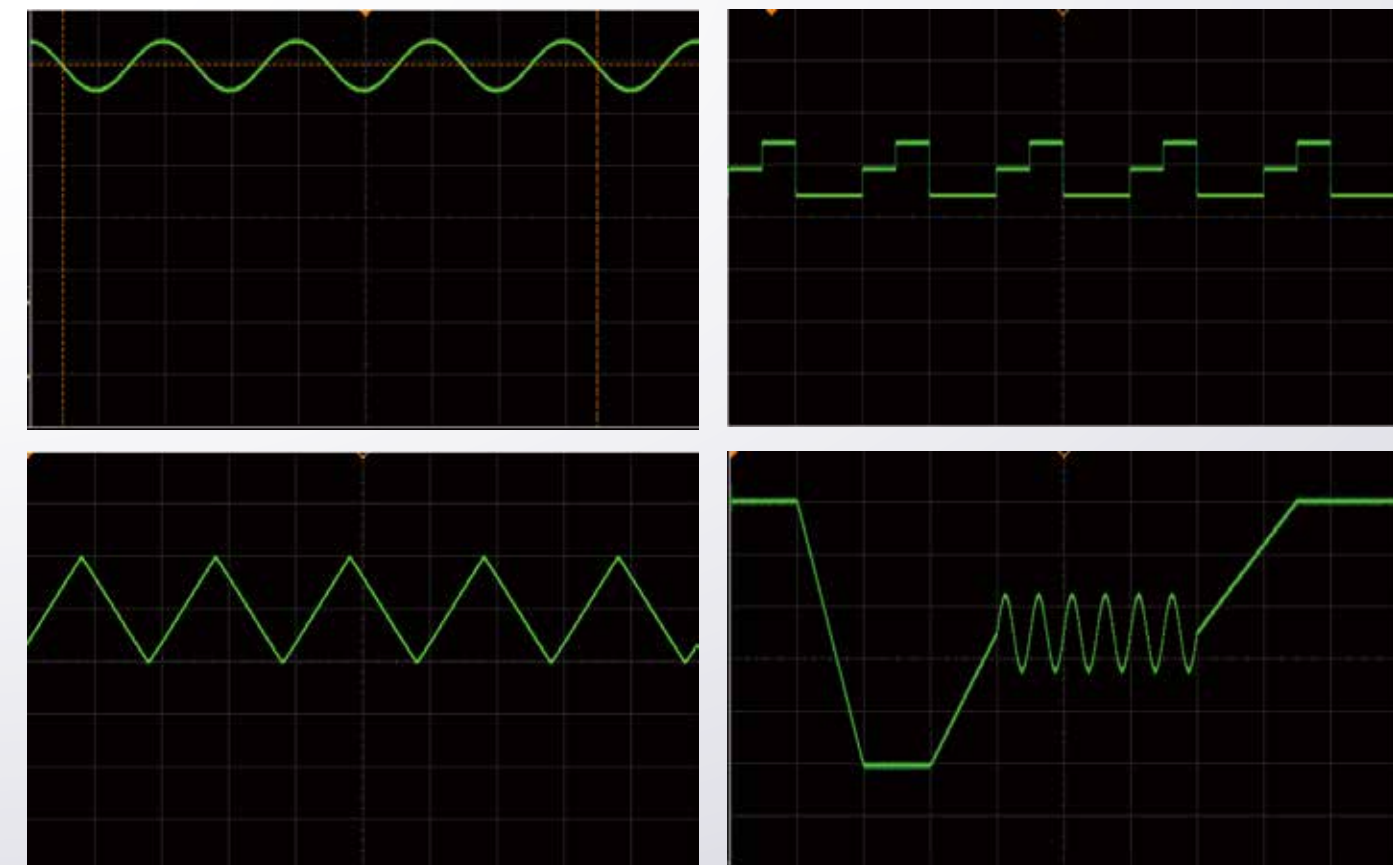
Reliable Protection Mechanism

The HB series power supply products provide comprehensive and reliable protection mechanisms. They offer fast and reliable protection and alarm mechanisms against abnormal conditions such as abnormal input AC voltage (overvoltage, undervoltage, phase loss), abnormal DC bus voltage (overvoltage, undervoltage), internal power transistor overcurrent, overtemperature, output overvoltage, undervoltage, output overcurrent, output current exceeding limits, voltage/current step response time exceeding limits, and reversed or overcompensated compensation circuit connections. Furthermore, load-related protection thresholds are configurable.



Powerful Arbitrary Waveform Generator

The HB series power supplies are equipped with built-in multi-waveform generators. Users can easily generate single or combined outputs of triangular, rectangular, trapezoidal, sine, and step waveforms, which can be applied to either the output voltage or output current. This provides users with powerful programmable testing capabilities.



HB Series

Bidirectional Programmable DC Test Power Supply



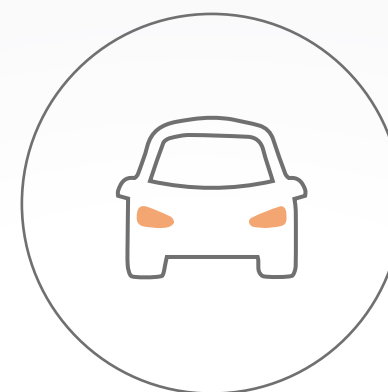
Application fields



PV Inverter



New energy vehicle motor
& controller



New energy
vehicle components



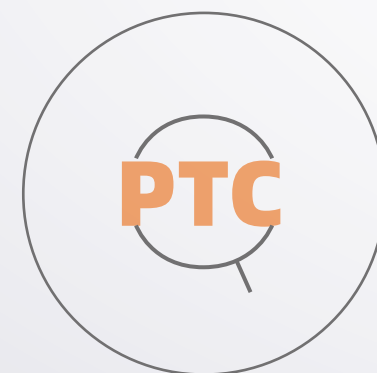
OBC/BOBC



Research institutes
/ Universities



PEU



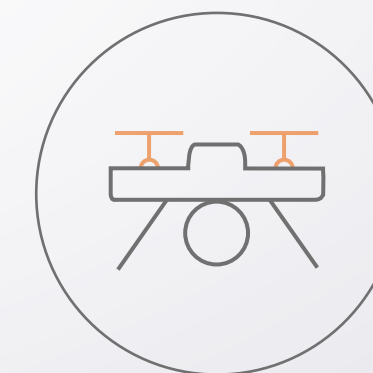
PTC



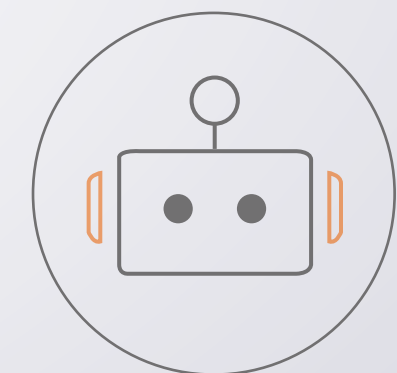
Electric air conditioning
compressor



High-voltage junction
box PDU



UAV



Robot

MP Series

Programmable DC Test Power Supply



MP series programmable DC test power supply is suitable for various test system integration, test benches, laboratories, production lines, military industry, scientific research institutes or maintenance institutions. It adopts international standard 3U chassis, provides power output capacity up to 15kW, has a variety of superior performance, and has unprecedented flexibility. The power supply has automatic range and wide range output capability, providing more comprehensive power supply test capabilities.

Electrical Parameter Range

Voltage Class:

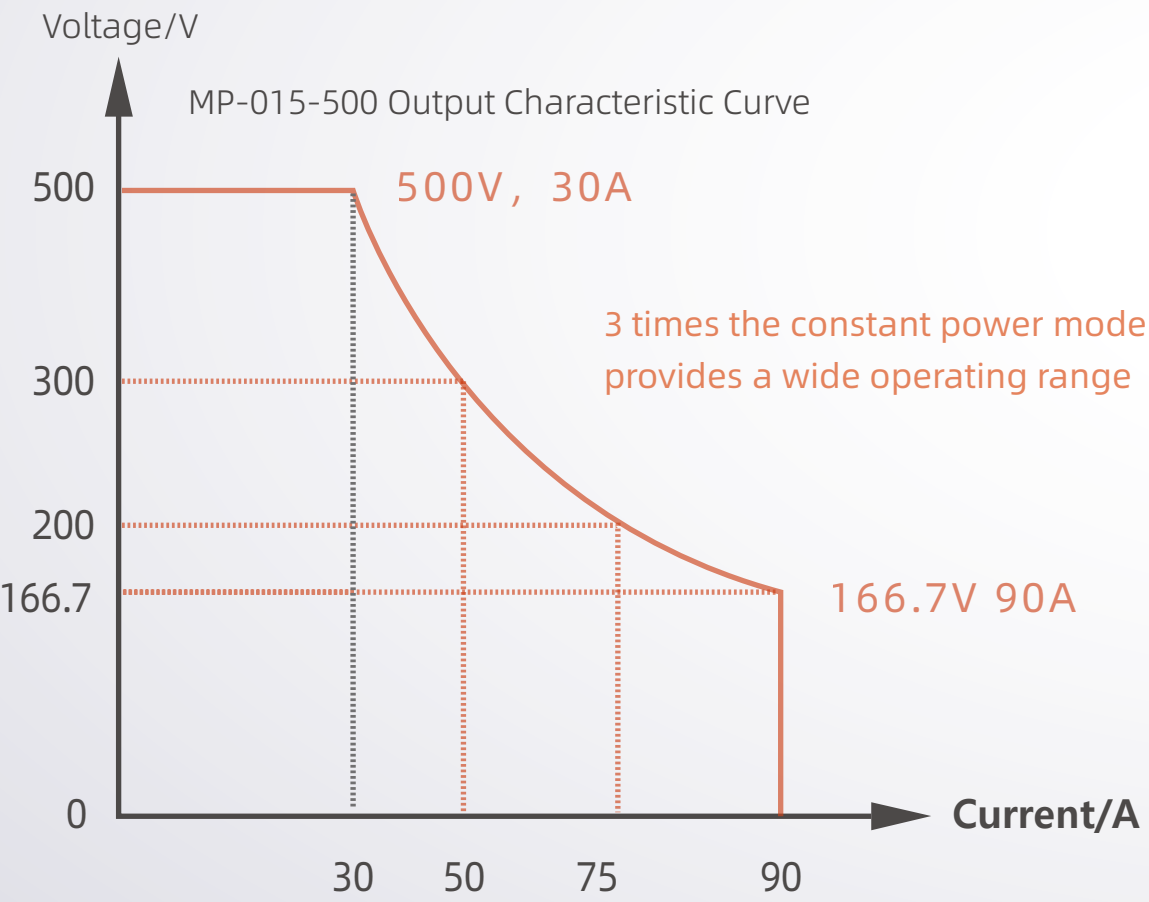
80V/200V/360V/500V/750V/1000V/1500V/2250V

Current Class: 6A~510A

Power Class: 1.5kW~15kW

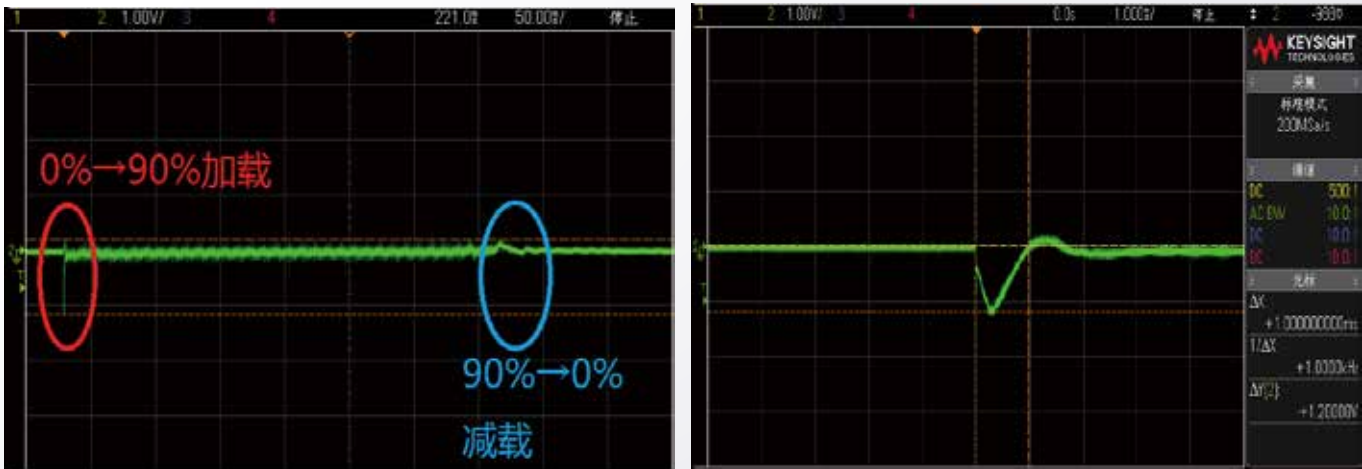


Wide Range Constant Power Output Capability



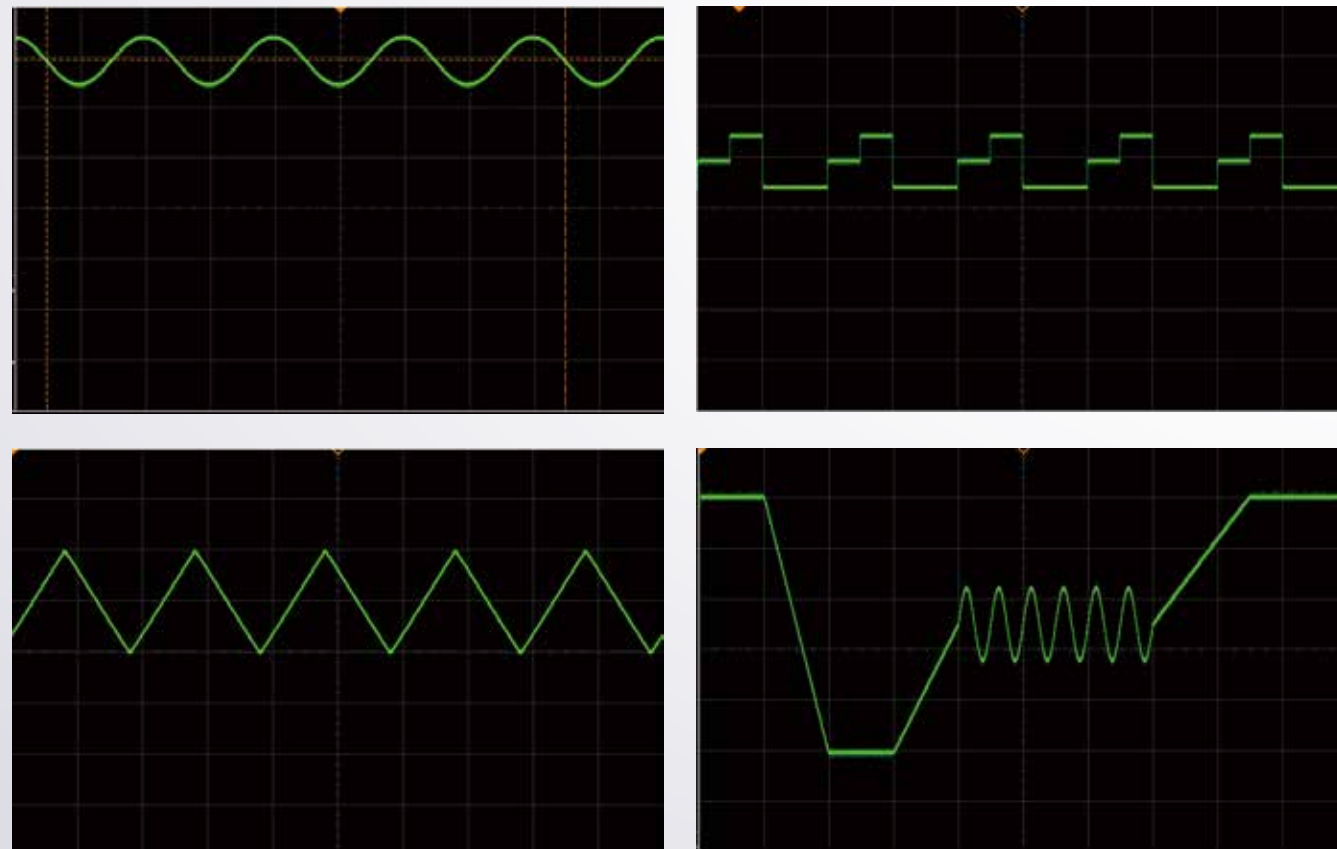
Excellent Output Performance

Adopting advanced multi-loop compound control technology, the MP power supply delivers fast dynamic response. The voltage drop under instantaneous loading is $< 1\%$, there is almost no voltage overshoot during unloading, and the dynamic response time is $< 2\text{ms}$.



Powerful Arbitrary Waveform Generator

The MP series power supplies are equipped with a built-in multi-waveform generator. Users can easily generate single or combined outputs of triangular, rectangular, trapezoidal, sine, step and other waveforms, which can be applied to either output voltage or output current, providing users with powerful programmable testing capabilities.



WOCEN Power Control

- WOCEN POWER CONTROL is a newly developed Windows monitoring software platform.
 - Automatic device scanning, supports simultaneous monitoring of multiple different slave devices with multi-thread control that does not interfere with each other.
 - Supports output parameter display/setting, start/stop control, protection parameter configuration and status indication.
 - Function generator with 100-step arbitrary waveform editing capability and data storage. Provides storage for user configurations, function generator editing data and real-time output data.
 - Provides storage and recall functions,
 - supporting user-defined storage paths and storage intervals.
- Supports control via RS232, RS485, USB and LAN interfaces.

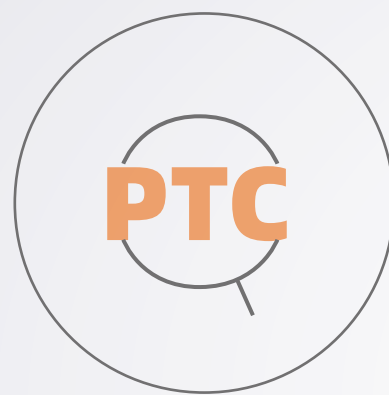


MP Series

Programmable DC Test Power Supply



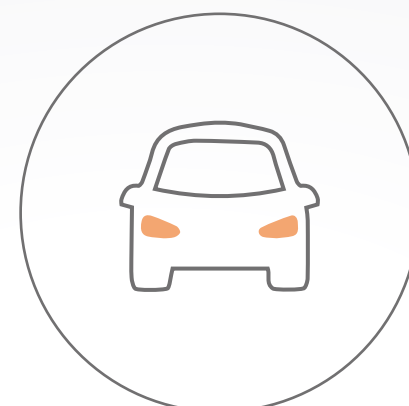
Application fields



PTC



Electronic Control MCU
(Electronic Control Reactive Endurance
Reliability Test)



New Energy Vehicle (NEV)
Components



Motor Stator Testing



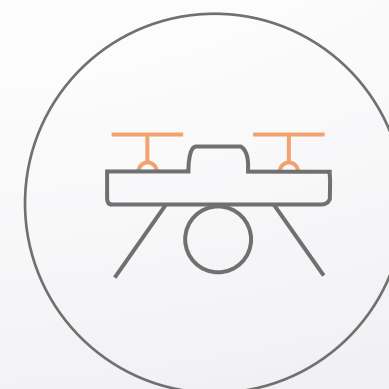
Research Institutes
& Universities



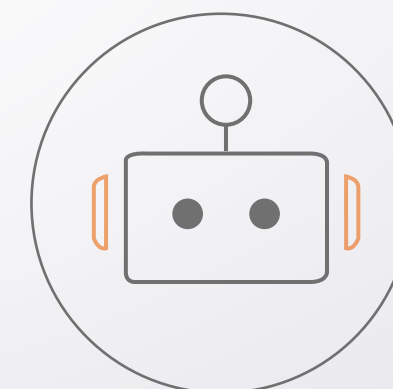
Electric A/C Compressor



HV-PDU



Drone



Robot

GP Series

Programmable DC Test Power Supply (1.5-3kW)



The GP (1.5kW~3kW) series DC regulated power supply is specially developed for all kinds of DC test systems, test benches, laboratories, scientific research units, and production enterprises. It is used to replace batteries for power tools, motors, automotive electronics, LED, It is an advanced multi-purpose DC power supply with the characteristics of good output performance, small size, light weight, convenient operation and reliable work.



Electrical Parameter Range:

Voltage Class: 36V/60V/120V/300V/400V

Current Class: 4A~100A

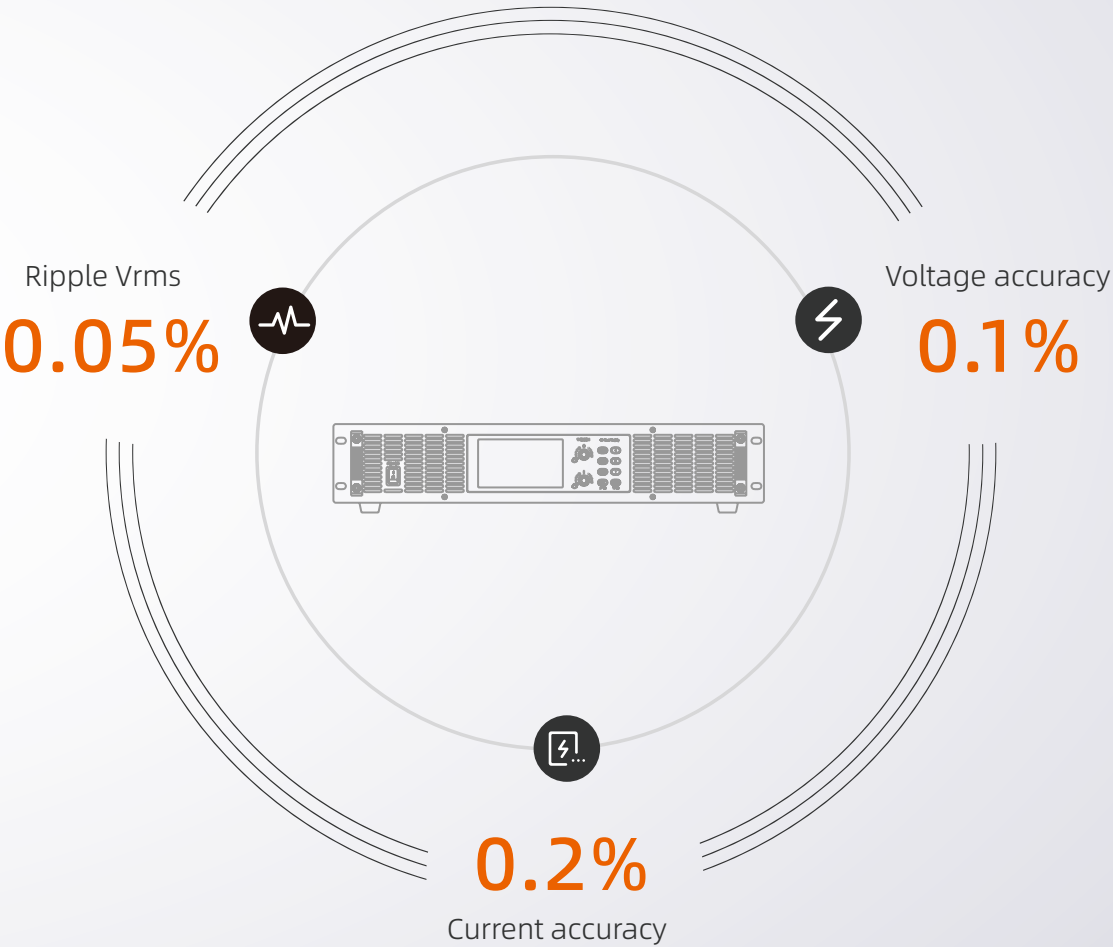
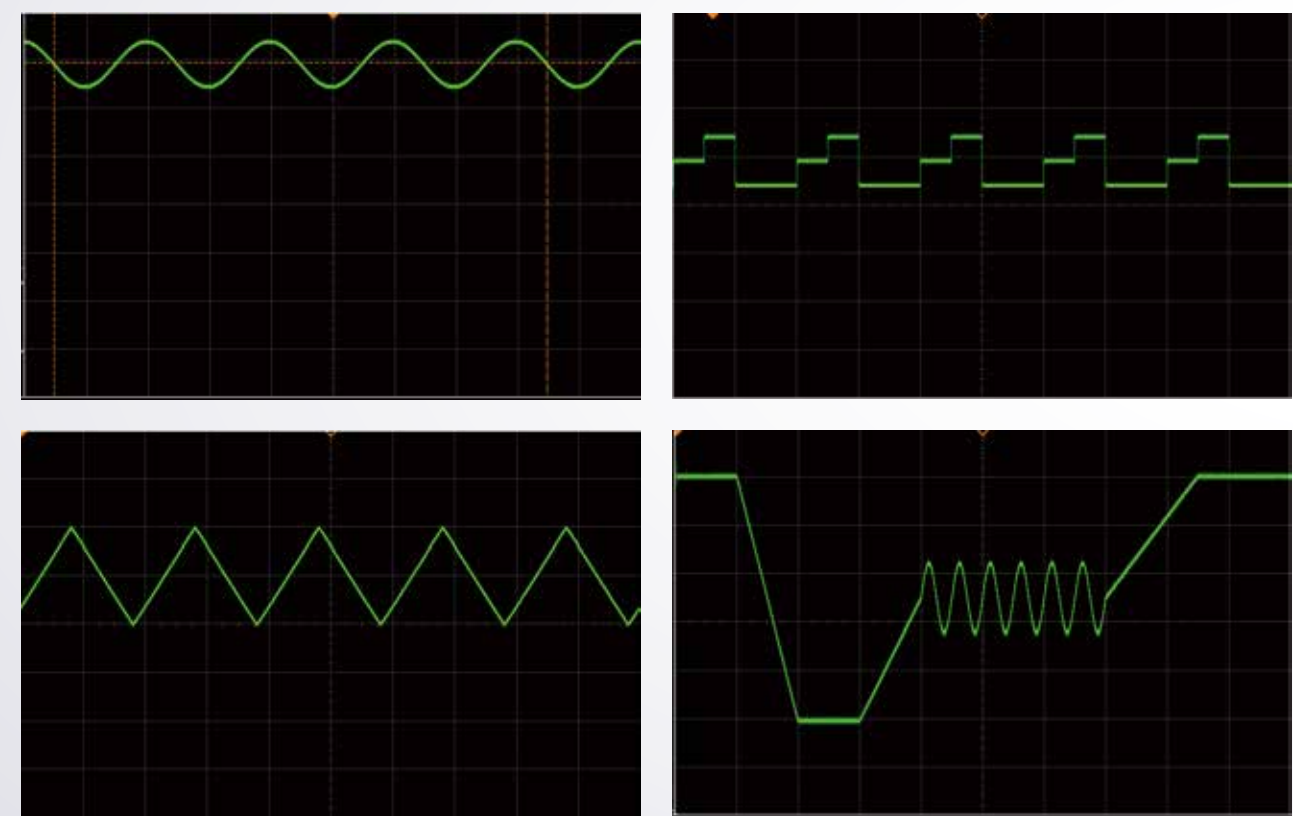
Power Class: 1.5kW,3kW

GP Series

Programmable DC Test Power Supply (1.5-3kW)



Built-in arbitrary waveform generator



GP Series

Programmable DC Test Power Supply (1.5–3kW)

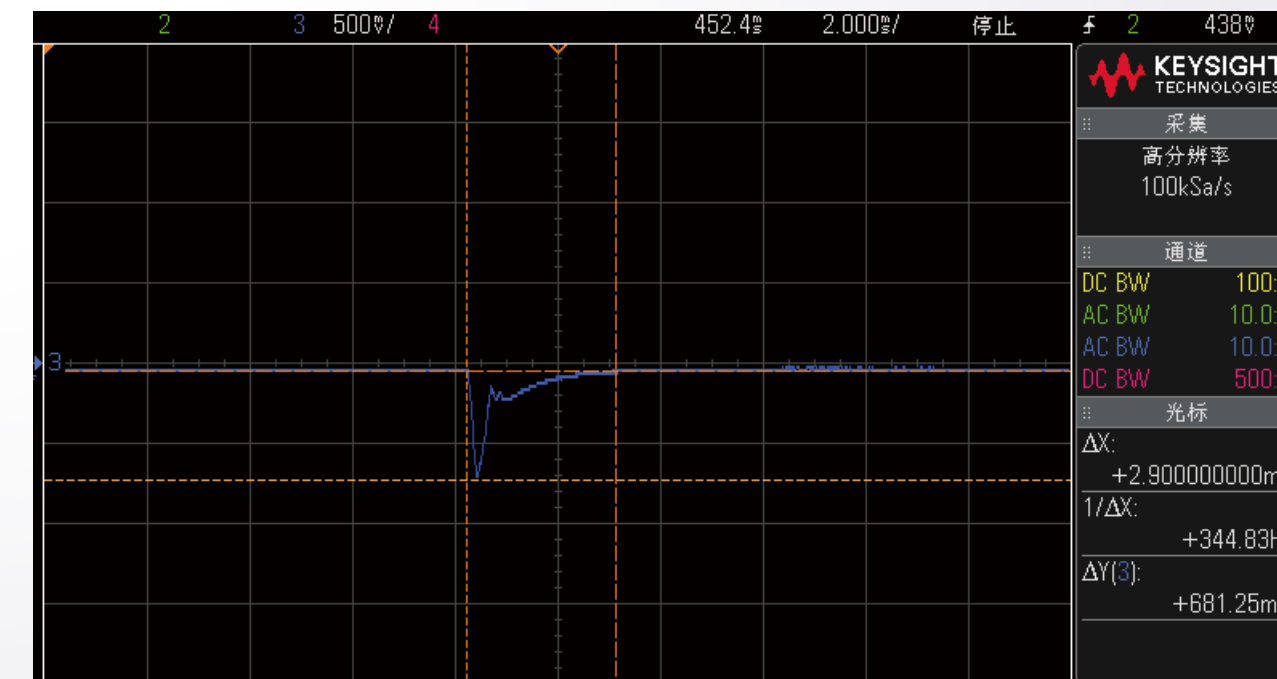


- ★ High power density, 2U height, depth only 380 mm
- ★ High output accuracy: 0.1% U_{max} , 0.2% I_{max}
- ★ CV / CC operating modes
- ★ Auto-detect voltage compensation terminals
- ★ Arbitrary waveform generator; supports multi-curve cycling
- ★ Master-slave operation, supports automatic current sharing in parallel operation
- ★ Standard with RS485, CAN, LAN communication interfaces
- ★ Supports WOCEN POWER CONTROL upper computer monitoring software
- ★ Higher cost-performance ratio



Ultra-fast dynamic response performance

The GP (1.5–3kW) series programmable DC test power supplies adopt multi-loop waveform correction for excellent transient performance. For 10%–90% and 0%–50% load switching, the transient response time is < 5 ms, and the voltage variation is $< 5\%$ F.S. (F.S. = full-scale rated voltage).



GP-36100, 30V. Transient response: 10%Pe – 90%Pe (recovery time 2.9 ms, voltage drop 680 mV).

GP Series

Programmable DC Test Power Supply (1.5–3kW)

WOCEN

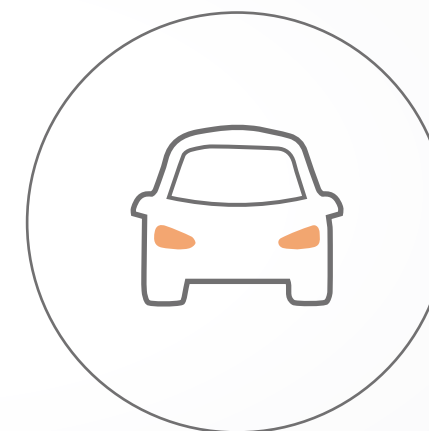
Application Fields



Low-voltage system
power supply



New Energy
Vehicle Motor



Automotive
Electronics



Research Institutes
& Universities

GP Series

DC Regulated Power Supply (10-400kW)



The GP series DC regulated power supplies adopt full-bridge soft-switching conversion technology and multi-stage closed-loop feedback control technology, featuring fast dynamic response, low output ripple, small size, light weight and high efficiency.

They are equipped with a visual human-machine interface, which is easy to operate, aesthetically pleasing and provides comprehensive information display.

Complete protection functions ensure safe and stable operation. Meanwhile, rich interfaces are available to meet system control requirements and realize unattended operation.

With a wide range of product models, we can customize any single unit with a power rating from 10 kW to 400 kW supported by our strong technical capabilities.

Electrical Parameter Range:

Voltage Class: 60V/120V/400V/600V/800V/1000V

Current Class : 30A~600A

Power Class: 15kW~400kW

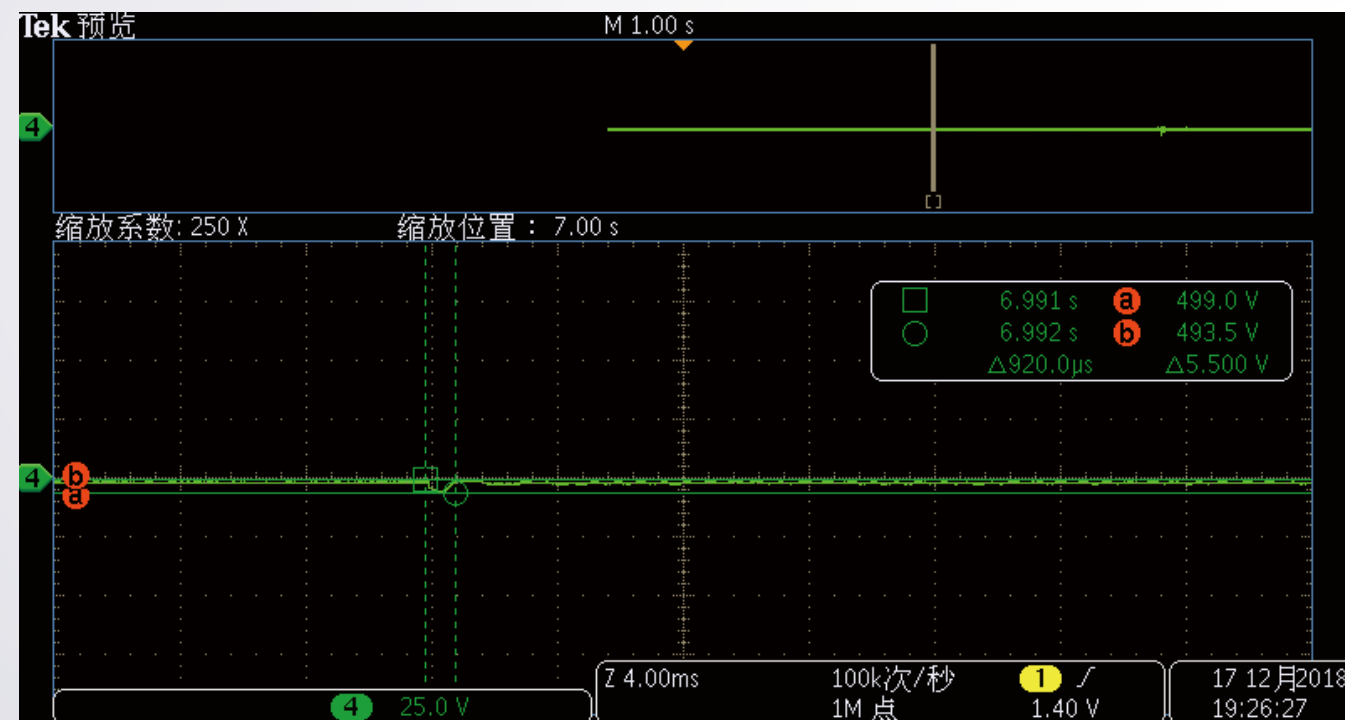


GP Series

DC Regulated Power Supply (10-400kW)



Double closed loop control circuit



< 10ms

10%-90%, 0-50% load switching
transient response time

< 5% F.S.

Voltage change value

1ms

Discharge opening time

GP Series

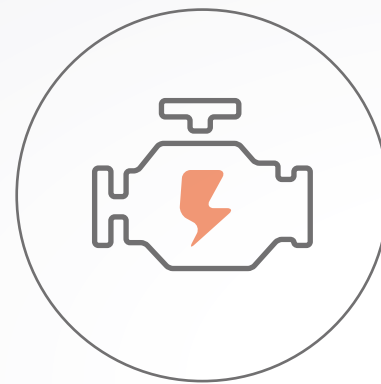
DC Regulated Power Supply (10-400kW)



Application fields



EV Motor Test
EV Motor Controller Test



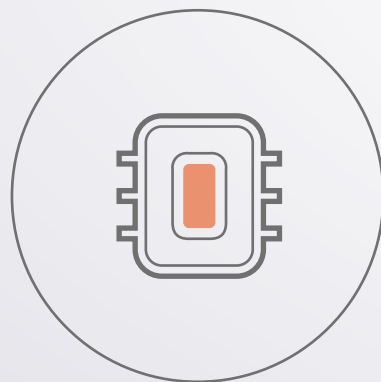
Electric Vehicle
Powertrain Test



EV Complete
Vehicle Test



Hydrogen
production



Electronic components



Wastewater treatment



Testing institutions



Institutions of
Higher Education

WA Series

Regenerative Grid Simulator

WOCEN

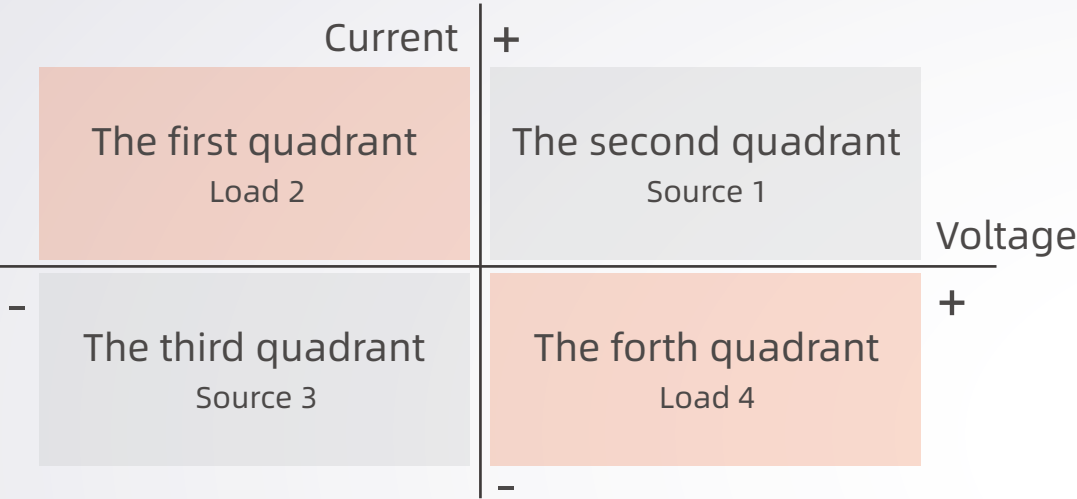
The WA series regenerative grid simulator adopts the new third-generation wide bandgap semiconductor device SiC technology. It is a high-performance bidirectional AC source and load product that integrates high precision, high dynamic response and high efficiency. The product integrates functions such as AC power supply, power grid simulator, DC power supply, and regenerative AC electronic load.

The WA series products have full four-quadrant operation capabilities, and the efficient regenerative capability can feed back electrical energy to the power grid without pollution, which not only meets the needs of low-carbon environmental protection, but also reduces the user's equipment investment and energy consumption costs. The product has built-in standard waveform libraries commonly used in photovoltaic, energy storage, new energy vehicles and other industry tests. You can also customize waveforms, and you can also choose single-phase, three-phase and other working modes according to test requirements, which provides high flexibility for testing and can be widely used in photovoltaics, energy storage systems, new energy vehicles, power electronics and other fields.

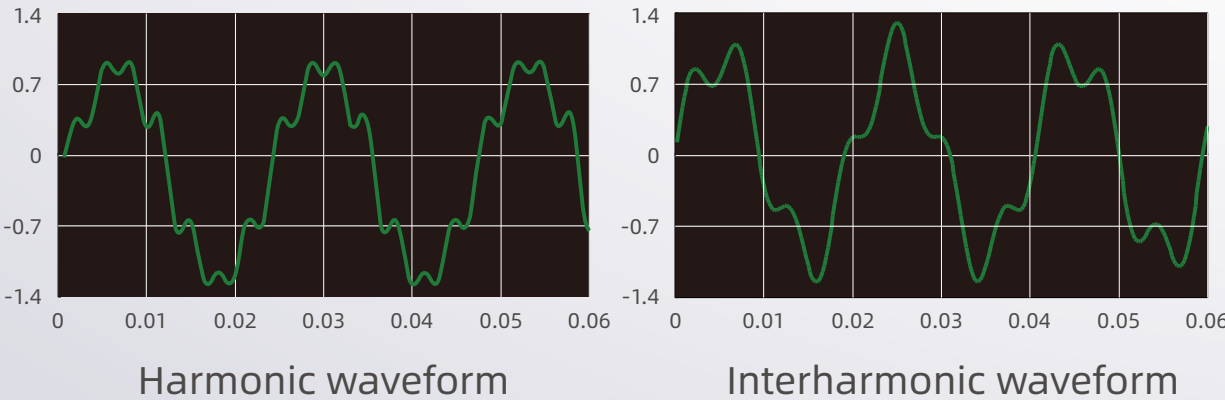
350V / 21kW / 105A



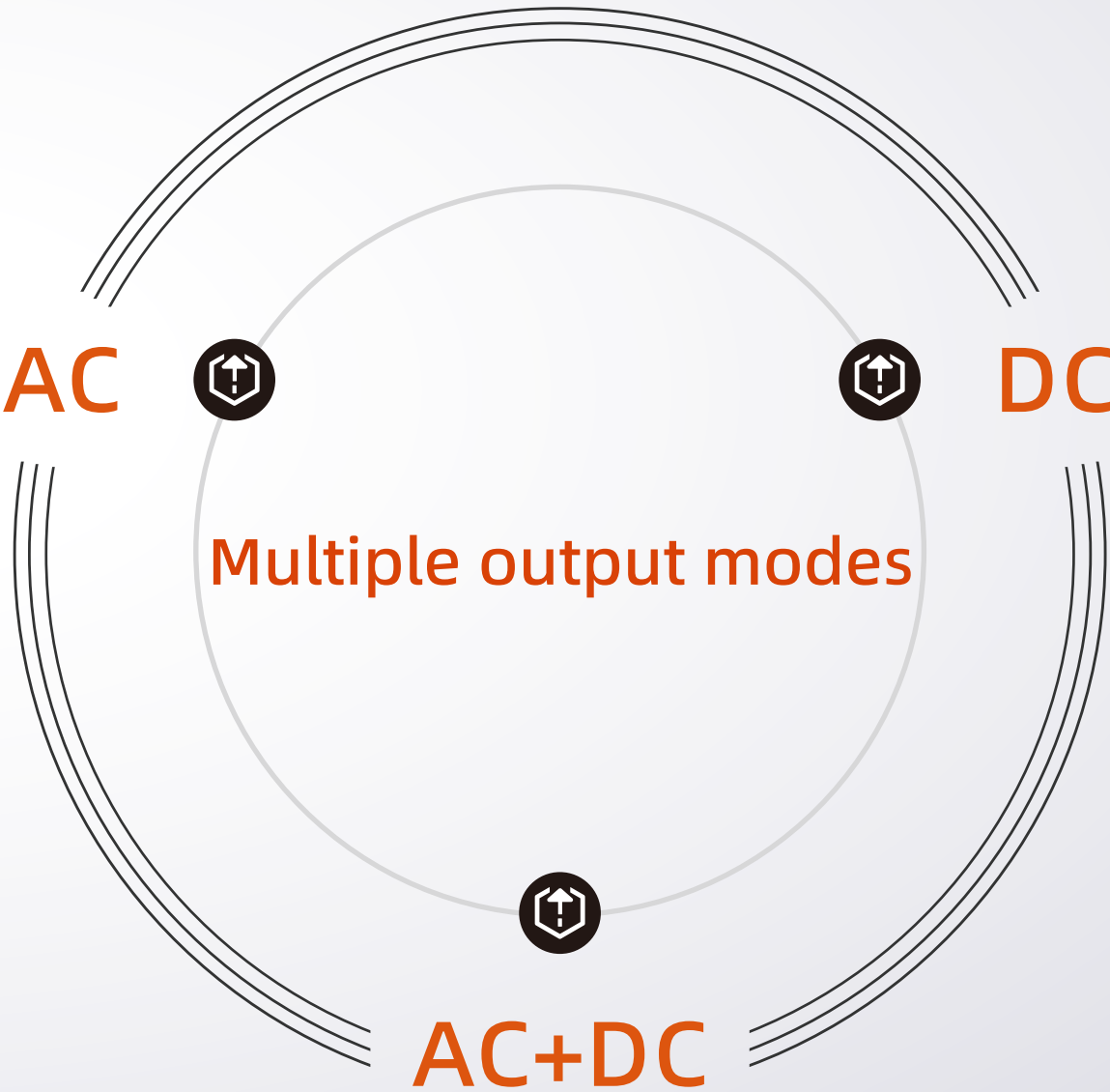
Built-in arbitrary waveform generator



Harmonic and waveform simulation



AC, DC, AC+DC and other output modes



WA Series

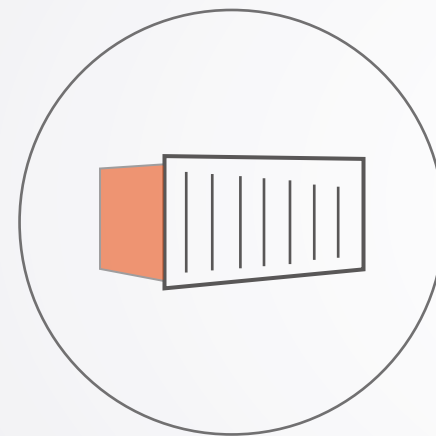
Regenerative Grid Simulator



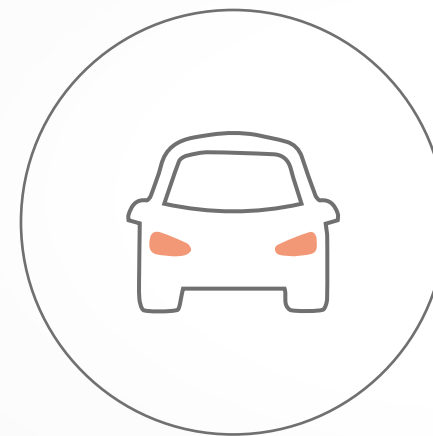
Application Fields



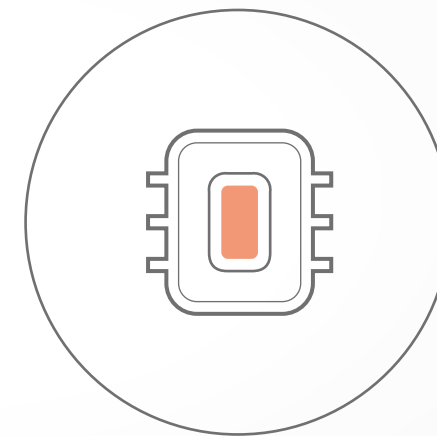
Photovoltaic
inverter



Energy storage
system



New energy
vehicles



Power
electronics



Research institutes
/universities



Testing
institutions

BP Series

Variable Frequency Power Supply



Variable frequency power supply is specially developed for industries such as charging stations, household appliances, electric motors, compressors, etc. It is used to replace traditional voltage regulators and frequency converters, and can simulate the voltage/frequency of various electrical grids, providing efficient, low-cost, and accurate testing solutions.

Electrical Parameter Range:

Phase Voltage Class: 150V , 300V

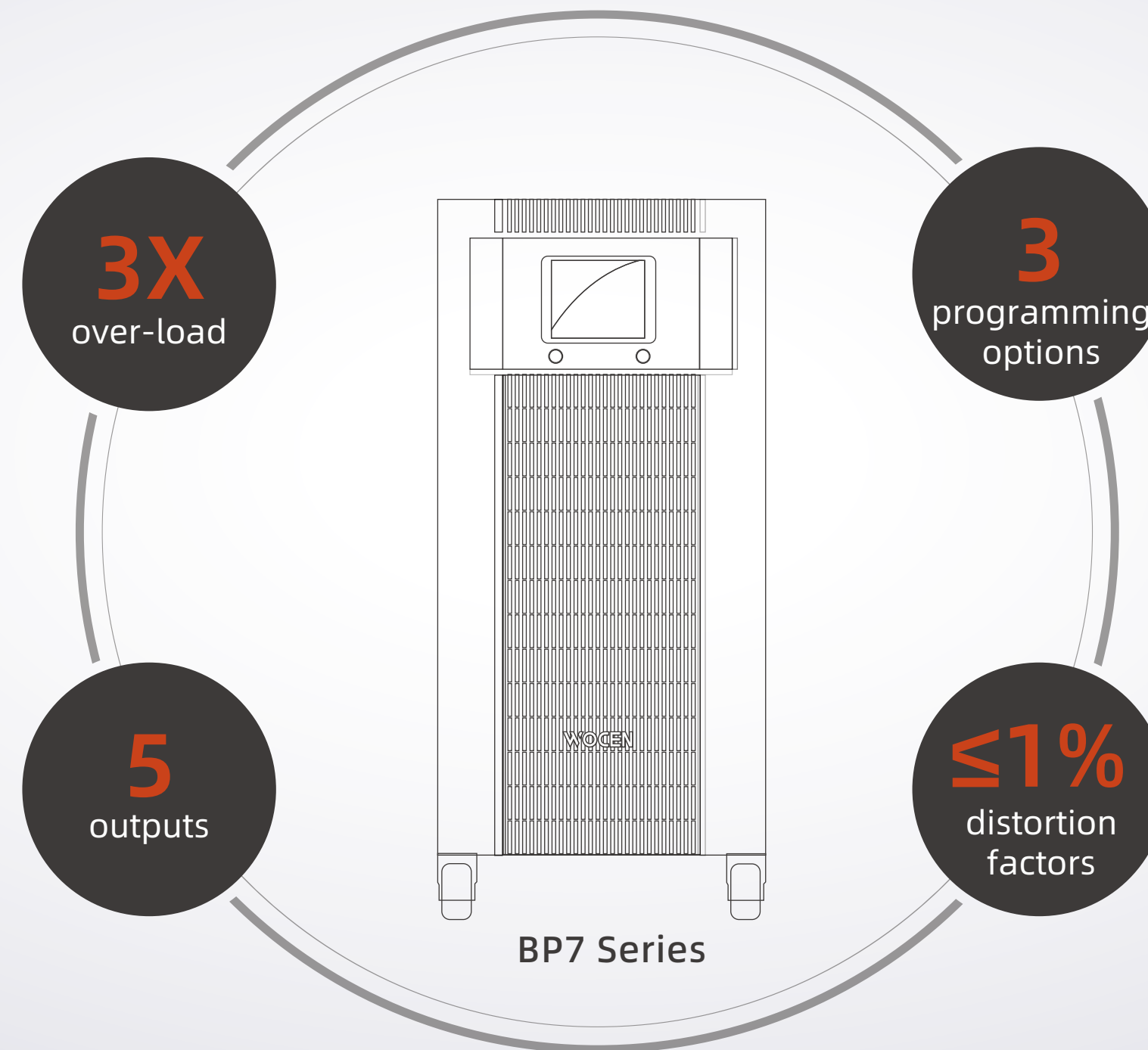
Current Class: 2A~3038A

Power Class: 0.5kW~2000kW

BP Series

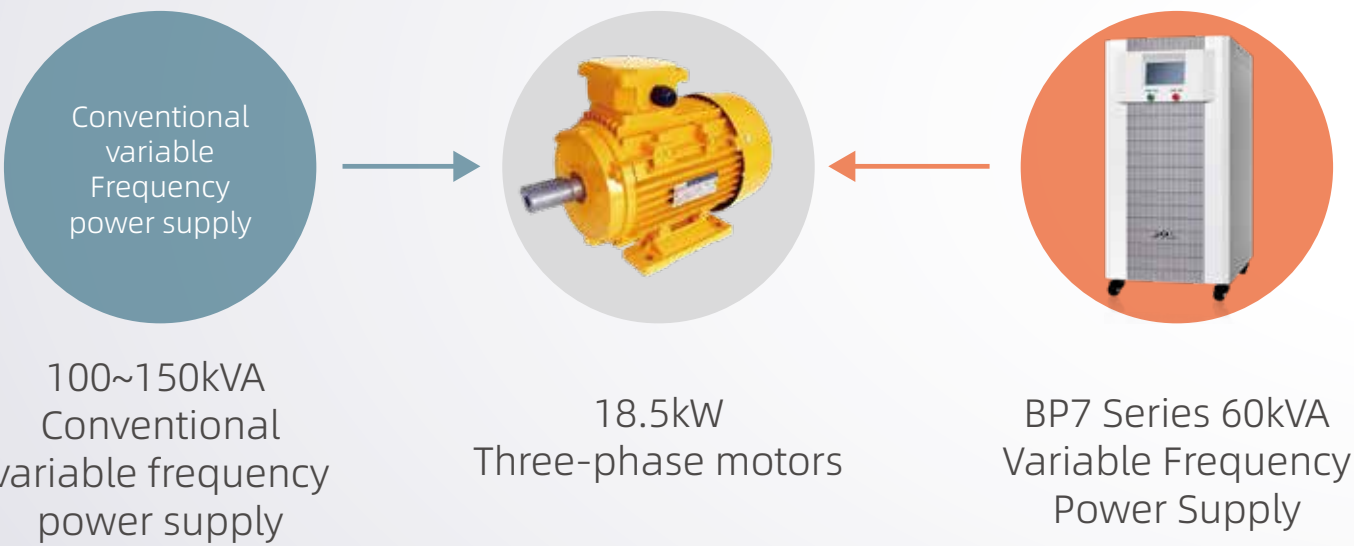
Variable Frequency Power Supply

WOCEN



Ultra-high overload capacity

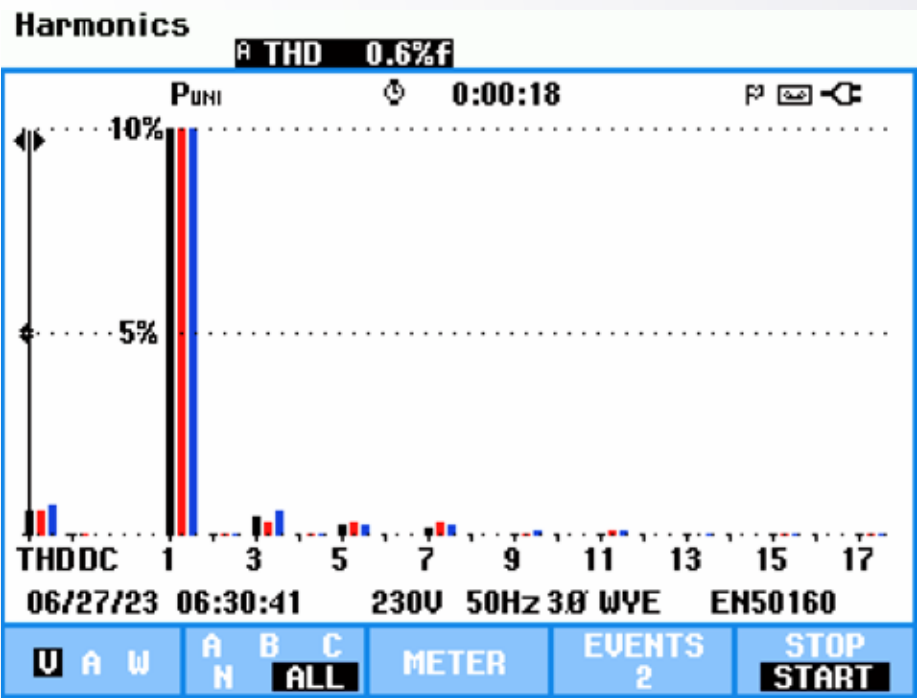
Up to 300% (BP63/70/73)



The overload capacity can reach up to 3 times, greatly reducing the power supply capacity required for motor loads and cutting costs. (Tests show that the 60kVA BP7 variable frequency power supply can directly start an 18.5kW motor.)

Ultra-low waveform distortion

The lower the distortion, the closer the output voltage is to the standard sine wave. When the output phase voltage of the BP series AC variable frequency power supply is 220V/110V±15%, it can achieve THDu ≤ 1%.



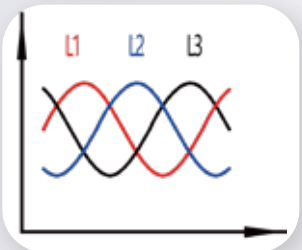
BP Series

Variable Frequency Power Supply

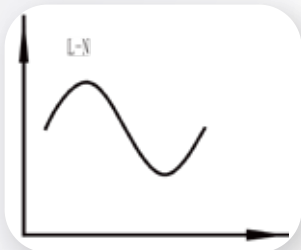


5 output modes

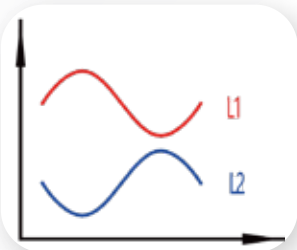
All-in-one



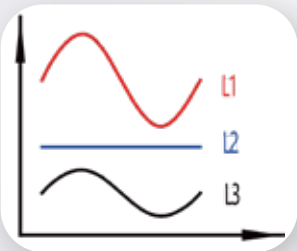
Three-phase standard output



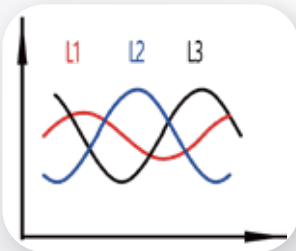
Parallel single-phase output



American standard two-phase output



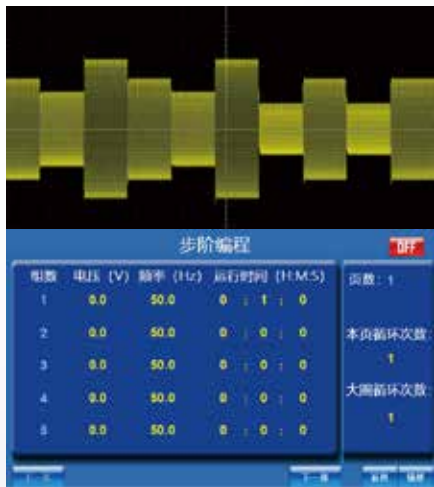
Three independent outputs



Three-phase unbalanced output

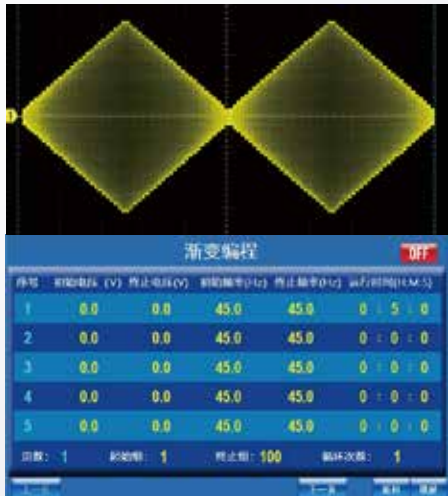
Step programming

50 groups of output voltage, frequency and operating time; 10 small cycles, 1 large cycle, cycle times: 60000



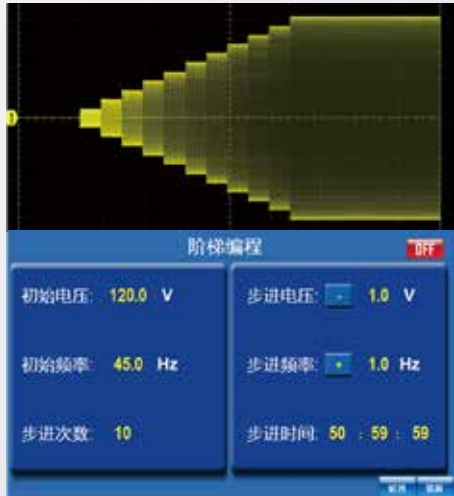
Ramp programming

100 groups of initial U/F, final U/F, operating time, cycle times: 60000



Staircase programming

Initial U/F, step U/F, step count, step voltage, step frequency, step time



BP Series

Variable Frequency Power Supply



Application fields



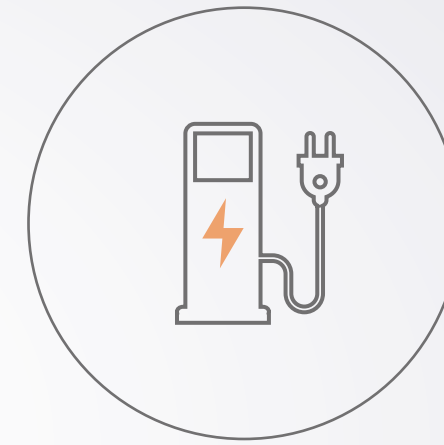
Home Appliances



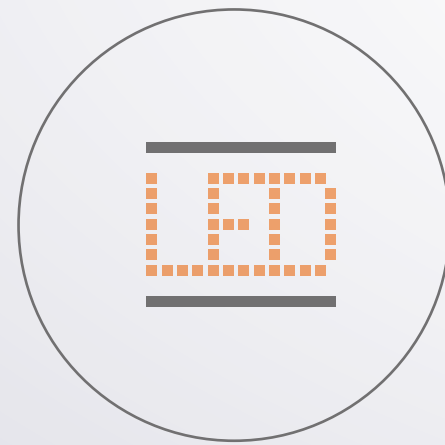
Electric Motors



Power Tools



Charging Pile Testing
& Compressors



LED



Electric air conditioning
compressor



Research
Institutions



Aerospace

AP Series

Shore Power Supply



The shore power supply AP series is a high-power shore power variable frequency power supply device specially designed and manufactured for the harsh operating environment of high temperature, high humidity, high corrosion, large load impact, etc. in ship repair/shipbuilding yards.



Ultra high power

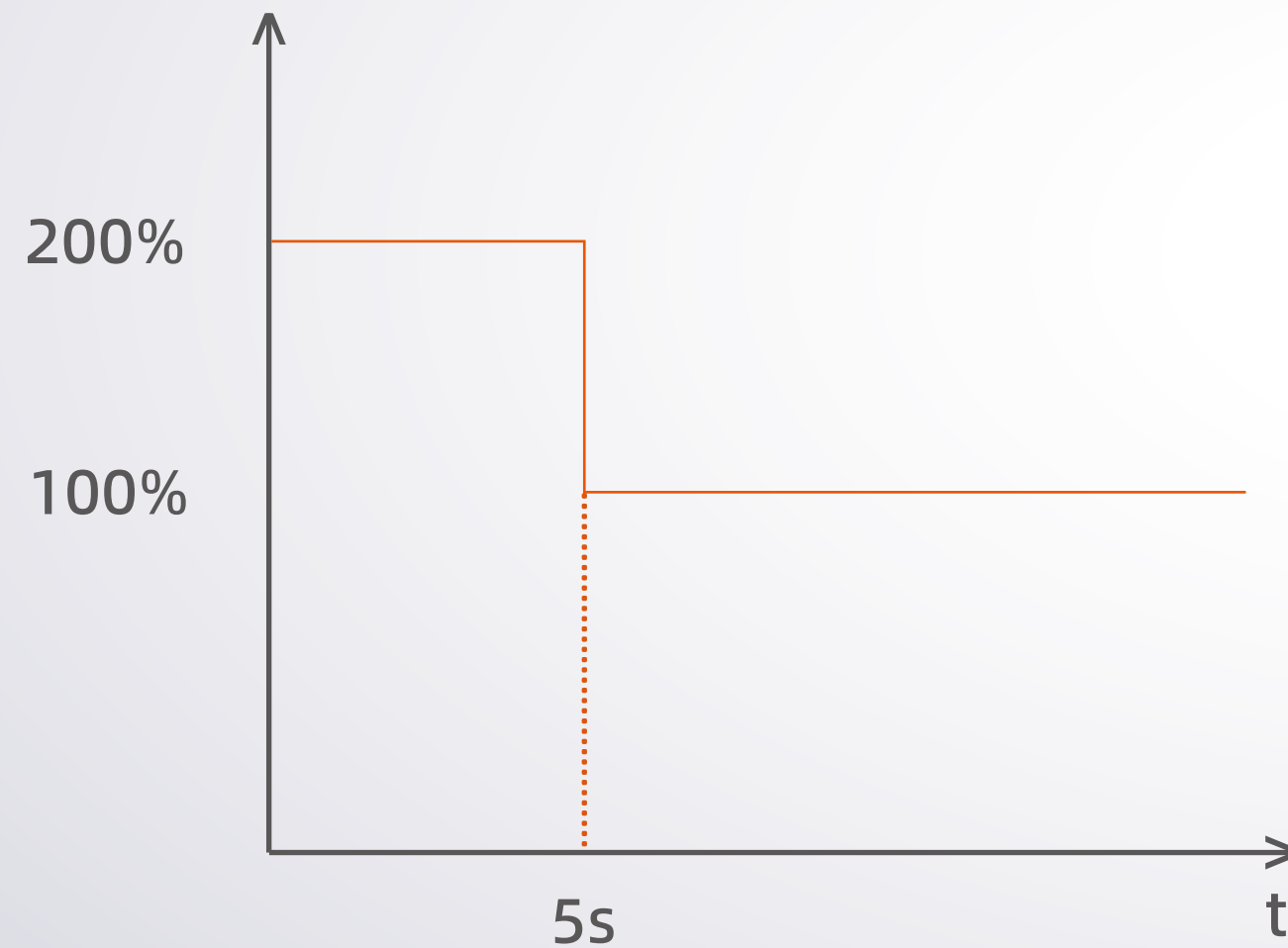
300kVA ~3000kVA





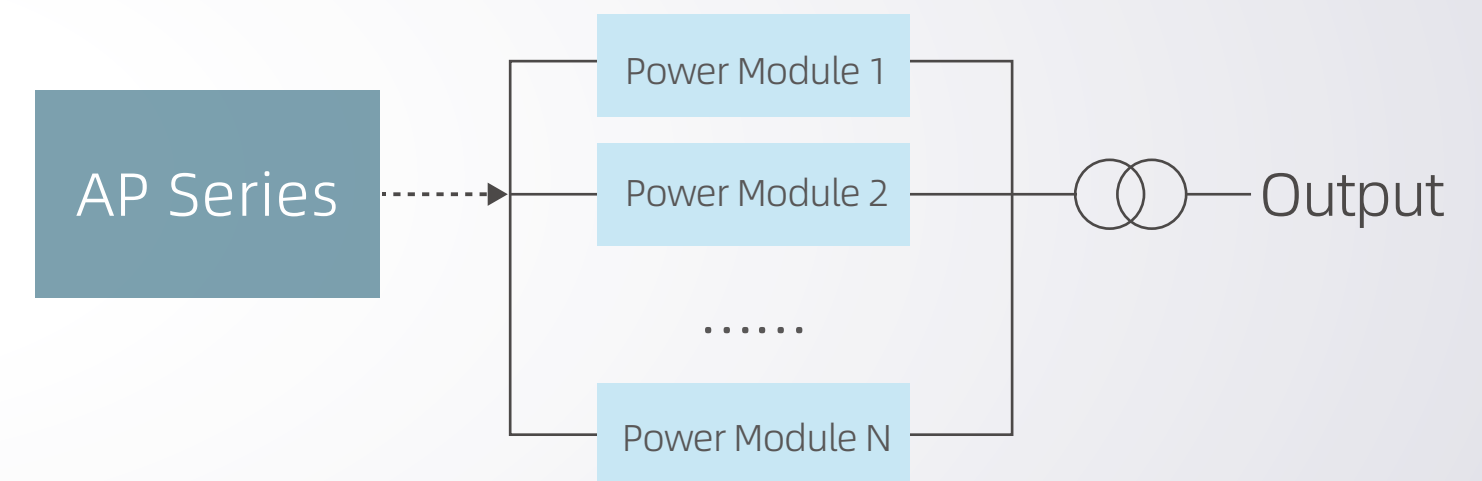
High overload capacity

200%, 5s



Multi-module parallel connection

Easy to expand/maintain



If any power module fails, it will automatically quit working and can be replaced when it is idle to ensure work efficiency.

AP Series

Shore Power Supply

WOCEN



Intelligent temperature controlled container

Automatic temperature control, lighting, insulation, fire protection



AP Series

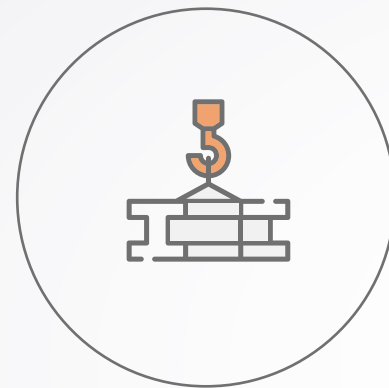
Shore Power Supply



Application fields



Shipbuilding and ship
repair industry



Quayside container
crane (QCC)



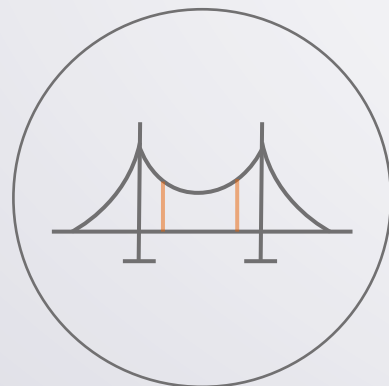
Gantry crane



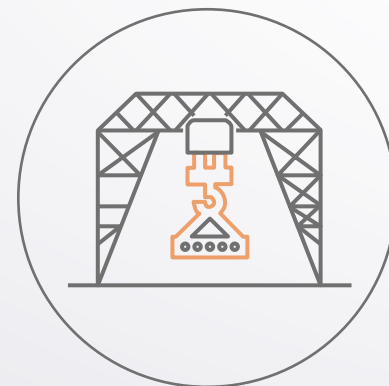
Ship loader



Car dumper



Large-tonnage bridge
crane (over 40 tons)



Gantry crane



Submersible pump
motor testing



Air compressor
motor testing



Offshore oil platform
commissioning

WBTS Series

Power Battery PACK Testing System

WOCEN

Designed specifically for testing power battery packs, including charging, discharging and operating condition simulation.

It adopts four-quadrant PWM rectification technology and full digital control technology.

It can realize AC-DC conversion to charge power from the grid into the battery pack, and also feed the energy discharged from the battery pack back to the grid in the form of grid-connected inversion, enabling recycling and reuse of this part of electric energy.

This equipment is an energy-regenerative bidirectional battery charge/discharge power processing system controlled by computer background software.

Electrical Parameter Range:

Voltage Class:800V/1000V/1200V

Current Class : 200A~1200A

Power Class: 50kW~600kW



WBTS Series

Power Battery PACK Testing System



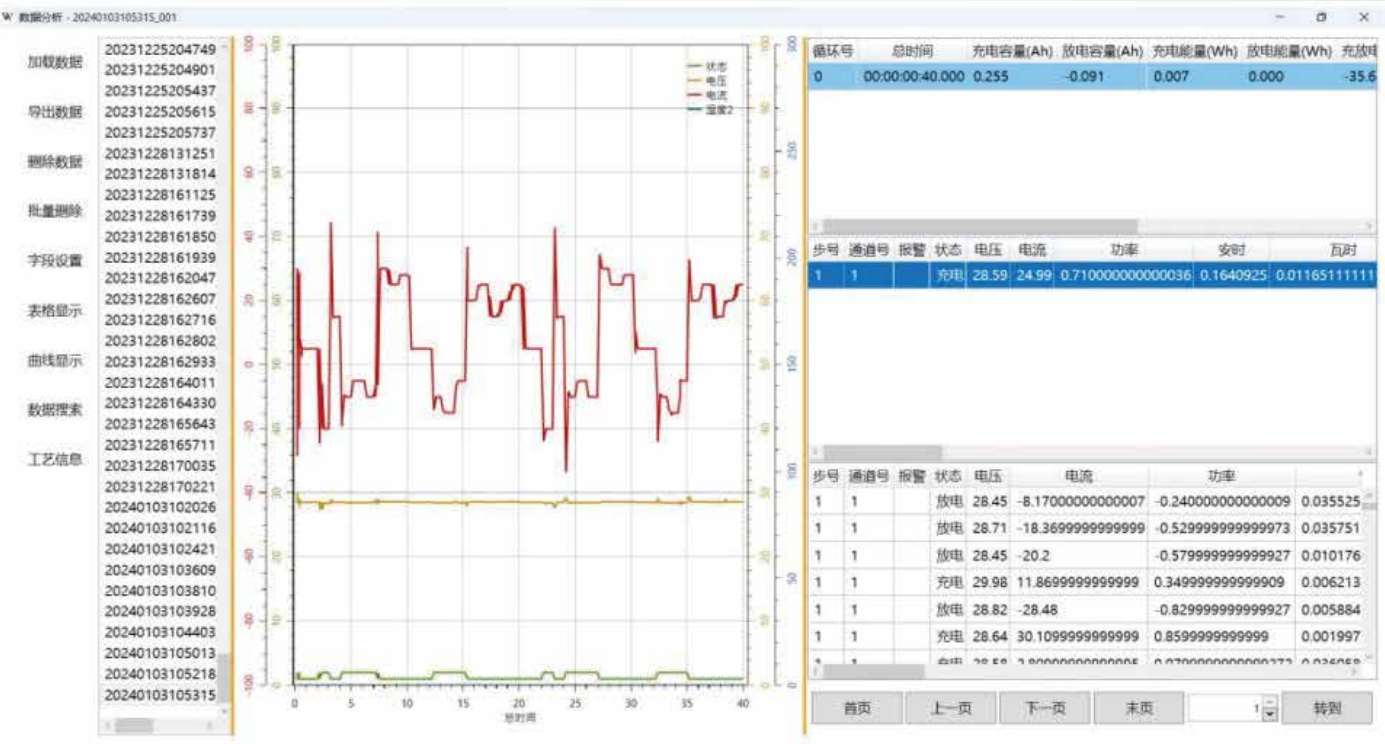
Realistic operating condition simulation

Support importing actual operating condition data of battery packs.



Powerful data management capabilities

Automatic data storage and curve display.



WBTS Series

Power Battery PACK Testing System



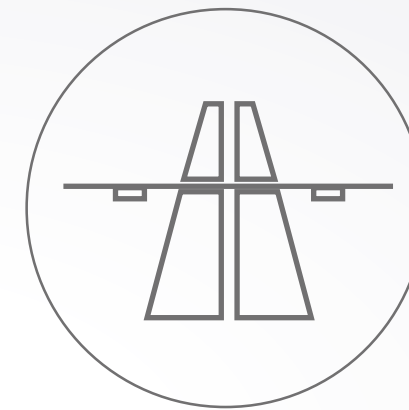
Application fields



Battery module production
testing for battery manufacturers



High-current charge and discharge
testing for EV/HEV power
battery systems



Battery simulation and testing
under real road conditions



High-current charge and discharge
testing of battery modules
by research institutions



The research institute conducts
high-current charge-discharge
testing and battery performance testing
on battery modules



Daily maintenance of
battery modules
in battery plants and
charging stations



Research, production and
application testing
of electric vehicles

Complete After-sales Service System



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Thanks



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