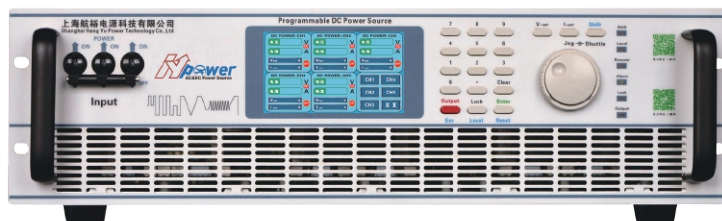
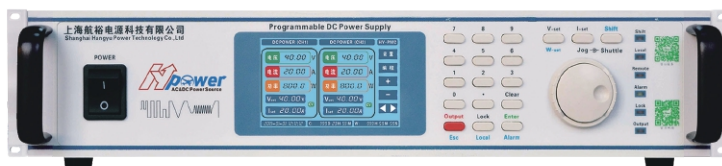
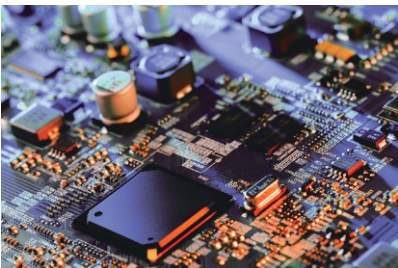




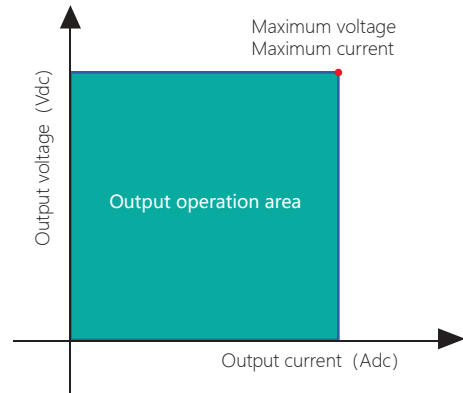
HY-PMC series

Programmable Multi-Channel DC Power Supply

Military Quality Power Supply Expert



High purity, precision, and reliability



This multi-channel power module has a flexible architecture, allowing users to test according to the requirements. The testing requirements of the product can be configured arbitrarily for each channel to meet various testing requirements.

Product Features

- high-precision
- high resolution 1mV / 1mA
- Linear amplification technology, ultra-low ripple noise
- More than two channels of output, up to 120 channels, each channel's voltage/current can be independently controlled and adjustable, and each channel's output has isolation
- 16 bits D/A High precision converter with precise output
- 20 bits A/D High precision converter for more accurate read back

Application Area

This multi-channel power supply is suitable for production line aging testing and automatic testing system construction, as well as various experiments and evaluations, quality management and other occasions.

- Provide pure power supply for RF, microwave circuits or components
- Industrial DC/DC converters
- Automotive Electronic Circuit Testing
- Production line scale aging test
- Power semiconductor testing
- R&D laboratory testing
- System Integration Test
- National Defense and Military Industry
- AEROSPACE

HY-PMC Series Product Selection Table

Product Selection Instructions

Product Model Naming Rules

Product series	Output voltage	Output current	Number of output channels	Purchasing function
HY-PMC	80	- 10	- 2CH	- CF

Selection examples:

Model: HY-PMC 80-10-2CH-CF

Output voltage 0 - 80 V, Output current 0 - 10 A,

The number of output channels is two,

Choose User Defined Features

Communication protocol

Modbus
SCPI

Standard communication interface

RS-485
RS-232
Digital I/O

Optional communication interface (Users can install it themselves)

- LAN : Ethernet communication interface
- CAN : CAN Communication interface
- GPIB : GPIB Communication interface
- IA : Analog programming and monitoring interface (isolated type)

Purchasing function

- PN : Positive and negative switching
- CP : Constant power function
- ABD : Anti backflow diode
- BD : Anti reverse diode
- TVS : tvs
- HS : High speed jump function (installed during factory shipment)
- HR : High resolution/precision
- DI : DC IN, DC 28 V / 270 V (Please specify when ordering)
- T1 : Operation temperature -10°C to 50°C
- T2 : Operation temperature -20°C to 50°C
- T4 : Operation temperature -40°C to 50°C
- CF : User defined functions (please specify when ordering)
- MR : Measurement report (issued by a third party certified by CNAS)
- SP : Sequence and function programming functions

*Only when the equipment operates continuously at the specified operating temperature for more than 30 minutes can all technical indicators be guaranteed.

HY-PMC Series Product Selection Table

In the selection table, special specifications beyond the voltage/current/power range are accepted for customization

Model	Output voltage	Output current	Output power
HY-PMC 80-10	0 - 80V	0 - 10A	800W
HY-PMC 80-5		0 - 5A	400W
HY-PMC 60-10	0 - 60V	0 - 10A	600W
HY-PMC 60-5		0 - 5A	300W
HY-PMC 40-20	0 - 40V	0 - 20A	800W
HY-PMC 40-10		0 - 10A	400W
HY-PMC 30-20	0 - 30V	0 - 20A	600W
HY-PMC 30-10		0 - 10A	300W
HY-PMC 20-40	0 - 20V	0 - 40A	800W
HY-PMC 20-20		0 - 20A	400W

HY-PMC Series Ordering information

CV Mode

Settable output range	0 - Rated output value
Input adjustment rate	$\leq 0.01\% + 0.01\%$ (range)
Load regulation	$\leq 0.01\% + 0.01\%$ (range)
Ripple effective value ms (3Hz-300kHz)	$\leq 0.01\%$ (80%-100% Rated Output)
Telemetry maximum compensation voltage	<30V When 2V; $\geq 30V$ When 8V; (Customizable according to demand)
Transient response time	$\leq 100\mu s$

CC Mode

Settable output range	0 - Rated output value
Input adjustment rate	$\leq 0.03\% + 0.03\%$ (range)
Load regulation	$\leq 0.03\% + 0.03\%$ (range)
Ripple effective value rms (3Hz-300kHz)	$\leq 0.03\%$ (80%-100% Rated Output)

Programming And Readback Accuracy Resolution

Voltage output programming accuracy	Rated output voltage 0.05%
Current output programming accuracy	Output current 0.1%+Rated output current 0.1%
Voltage setting resolution	0.001V ($\leq 60V$), 0.01V ($\leq 600V$), 0.1V ($> 600V$)
Current setting resolution	0.001A ($\leq 60A$), 0.01A ($\leq 600A$), 0.1A ($> 600A$)
Voltage output readback accuracy	Rated output voltage $\pm 0.02\%$ +Actual voltage $\pm 0.02\%$
Current output readback accuracy	Rated output current $\pm 0.1\%$ +Actual current $\pm 0.1\%$
Voltage read back resolution	0.00001V ($\leq 10V$), 0.0001V ($\leq 100V$), 0.001V ($100V < U \leq 1000V$), 0.01V ($> 1000V$)
Current read back resolution	0.00001A ($\leq 10A$), 0.0001A ($\leq 100A$), 0.001A ($100A < I \leq 1000A$)

Stability Temperature Coefficient

Stability (rated output voltage/current)	U:0.01% I: 0.01% (UAfter 30 minutes of power on at a certain input voltage and load ambient temperature, 8 hours)
Temperature coefficient (rated output voltage/current)	U:50ppm/°C I: 70ppm/°C (After 30 minutes of power on)

HY-PMC Series Technical Parameter

Protection Function

OVP Over voltage protection setting range	10 - 110%, Immediate shutdown of output beyond limit
OCP Over current protection setting range	0 - 105%, Immediate shutdown of output beyond limit
OTP Over temperature protection	Immediate shutdown of output beyond limit
OPP Over power protection	10 - 110%, Immediate shutdown of output beyond limit

Ambient Condition

Environment	Indoor use; Installation overvoltage level: II; Pollution level: P2; Class II equipment
Ambient temperature	0°C to 50°C, optional -10°C to 50°C, -20°C to 50°C, -40°C to 50°C
Storage environment temperature	-20°C to 65°C,
Working environment humidity	20%-90% RH, No condensation, continuous operation
Storage environment humidity	10% - 95% RH, No condensation
Altitude	Above an altitude of 2000 meters, the power decreases by 2% for every 100 meters increase, or the maximum working environment temperature decreases by 1 °C for every 100 meters; When not in operation, it can reach an altitude of 12000 meters
Burial	Forced air cooling, intelligent variable speed fan, front/side air inlet, rear air outlet
Noise	≤ 65dB(A), Weighted measurement with 1 m

Control Panel

Monitor	4-inch&7-inch, LCD display, touch screen
Control function	Digital key input, multi-level shuttle knob adjustment (outer circle coarse adjustment/inner circle fine adjustment) output ON/OFF switch, Lock keyboard and touch lock, reset restart status indicator light (Shift/Local/Remote/Alarm/Lock/Output)
Programming function	Step, ladder, gradient functions

Input Power Supply

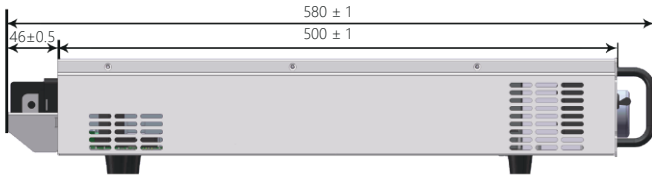
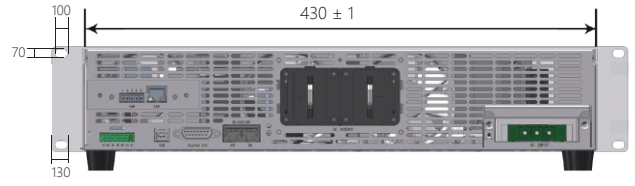
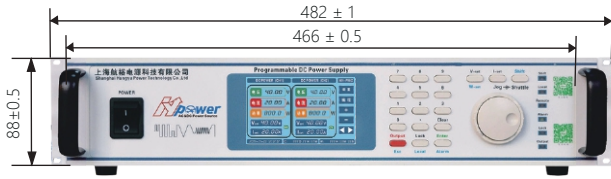
Frequency	47 Hz - 63 Hz
Connection	Single phase two wire+ground wire, AC220V±15%

Size

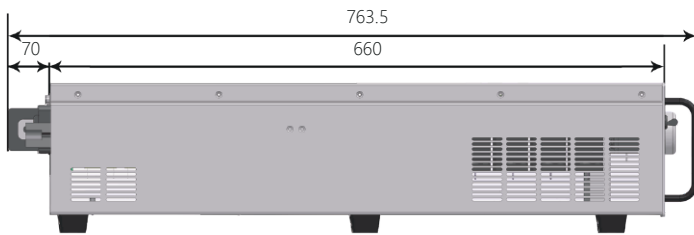
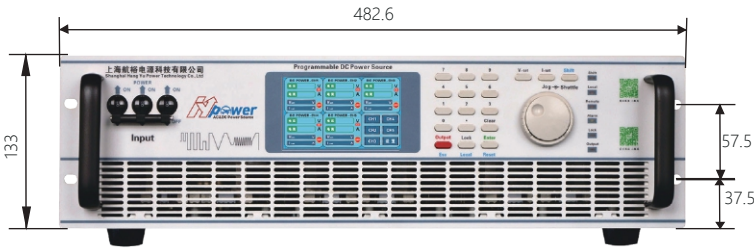
Size	430(W) * 500(D) * 88(H) mm, 2U 482.6(W) * 660(D) * 133(H) mm, 3U 430(W) * 560(D) * 178(H) mm, 4U 不同的电压、功率使用不同的机箱
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Appearance&Size Outline Dimension

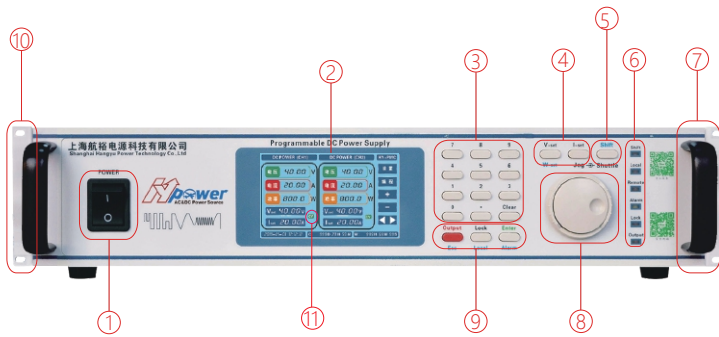
2U 430(W) * 500(D) * 88(H) mm



3U 482.6(W) * 660(D) * 133(H) mm

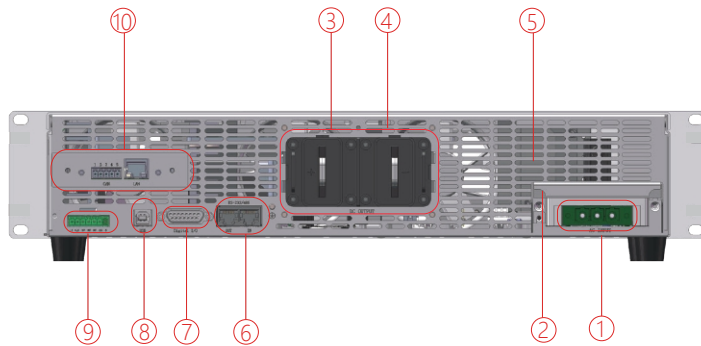


Control Panel



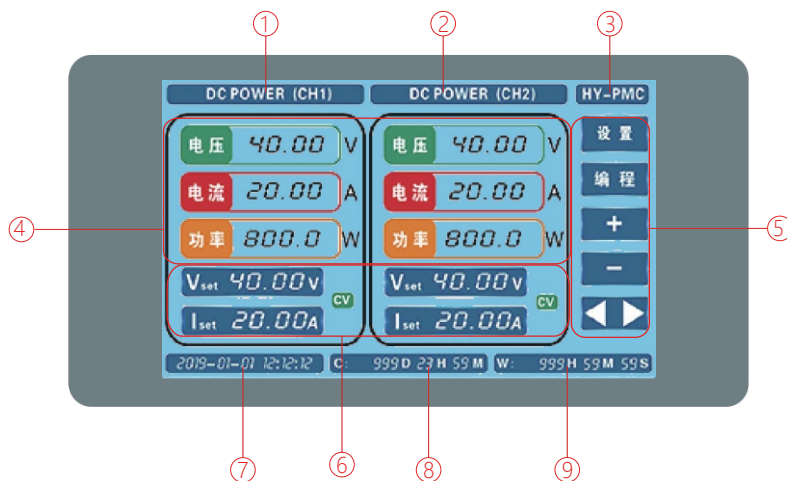
- ① Power input circuit breaker (2U single-phase, 3U three-phase)
- ② LCD Display (4-inch, touch screen)
- ③ Number input keyboard
- ④ Voltage/current/power setting key
- ⑤ Shift Function reset key
- ⑥ Status
- ⑦ Chassis handle
- ⑧ Multistage shuttle adjustment knob (inner circle fine adjustment/outer circle coarse adjustment)
- ⑨ Lock, Enter to confirm, Esc to exit/Local, Reset restart Output ON/OFF switch
- ⑩ 19 inch standard rack mounting holes
- ⑪ CC/CV priority can be set

Rear Panel



- ① AC input terminal
- ② AC input terminal protective cover
- ③ DC output terminal (+ / -)
- ④ DC output terminal protective cover
- ⑤ Heat dissipation air outlet
- ⑥ RS-485 & RS-232 Communication interface
- ⑦ Digital I/O Communication interface
- ⑧ USB Communication interface
- ⑨ Remote compensation measurement terminal
- ⑩ Purchase communication interface (one out of three)
 LAN & CAN Communication interface
 GPIB Communication interface
 Analog programming and monitoring interface (isolated type)

Display Interface



- ① thoroughfare 1
- ② thoroughfare 2
- ③ Product Series
- ④ Voltage/current/power read back display area
- ⑤ Function setting area
- ⑥ Voltage/Current Setpoints&CV/CC Status
- ⑦ TIME
- ⑧ Accumulated running time
- ⑨ This run time

Cooperative Clients (Partial)

Power Semiconductor Customers



Changchun Guoke



Electrical industry



China Resources
Microelectronics



Shanghai Huinengtai
Semiconductor



Yuexin Technology



Wishing to create
technology



Group core
microelectronics



Hangzhou Zhongsi



Feishide



Suzhou Lianxun
Instrument



Weiyujia
Semiconductor



Shanghai Zhanxin
Semiconductor



Chengxin
Technology



Zhuoxinda
Technology

Enterprises In The Field Of Automotive Electronics



China Automotive
Research and
Development



Heavy Industry Automotive
Research and Development



BMW
Brilliance



Red Banner



SAIC Group



SAIC Volkswagen



GEELY



tesla



Weilai



Xiaomi Automobile



BYD



value



polaris



Lantu Automobile



Inovance



HAOMO.AI



MKLtech



Shanghai Tongmin
Vehicle



Ningde Era



Human Horizons



Hezhong New Energy

High Tech R&D Enterprises



Huawei



FARATRONIC



Panasonic



EPCOS



TYCO



Weidmuller



Honeywell



Nader



SIEMENS



ABB



Schneider



NOSRK



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EOPLE



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Philips



Gree



Guilin Rubber
Machinery Factory



CASCO



CRRC



US PI



喜利得



BOSCH



linde



NARI-TECHNOLOGY



Shanghai Electric



New Thunder Energy



Silan

Aerospace and National Defense Military Industry Research Institute

						
china aerospace	CASIC	aviation industry	China Aerospace	CETC	CSSC	CSIC
CASC 800 institute (Shanghai Aerospace Precision Machinery Research Institute)	CASC 801 institute (Shanghai Institute of Space Propulsion)	AVIC 603 institute (AVIC Xi'an Aircraft Design and Research Institute)	AVIC 613 institute (China Aviation Industry Group Luoyang Electro Optic Equipment Research Institute)	CETC 14 institute (Nanjing Institute of Electronic Technology)	CETC 21 institute (Shanghai Micromotor Research Institute)	CETC 23 institute (Shanghai Transmission Line Research Institute)
CASC 803 institute (Shanghai Institute of Space Propulsion)	CASC 804 institute (Shanghai Aerospace Electronic Communication Equipment Research Institute)	AVIC 615 institute (China Aviation Industry Group Luoyang Electro Optic Equipment Research Institute)	AVIC 618 institute (Xi'an Automatic Flight Research Institute of China Radio Aviation Research Institute)	CETC 23 institute (Shanghai Transmission Line Research Institute)	CETC 36 institute (Jiangnan Electronic Communication Research Institute)	CETC 38 institute (East China Electronic Engineering Research Institute)
CASC 805 institute (Shanghai Aerospace Systems Engineering Research Institute)	CASC 808 institute (Shanghai Institute of Precision Metrology and Testing)	AVIC 631 institute (AVIC Aerospace Computing Technology Research Institute)	AVIC 105 factory (Tianjin Aviation Electromechanical Co., Ltd)	CETC 50 institute (Shanghai Microwave Technology Research Institute)	CETC 51 institute (Shanghai Microwave Equipment Research Institute)	CETC 54 institute (Shijiazhuang Communication Measurement and Control Technology Research Institute)
CASC 811 institute (Shanghai Space Power Research Institute)	CASC 812 institute (Shanghai Satellite Equipment Research Institute)	AVIC 115 factory (Shaanxi Aviation Electric Co., Ltd)	AVIC 118 factory (Shanghai Aviation Electrical Appliances Co., Ltd)	CETC 55 institute (Nanjing Institute of Electronic Devices)	CSIC 707 institute (Tianjin Institute of Navigation Instruments)	CSIC 7107 institute (Shaanxi Aerospace Navigation Equipment Co., Ltd)
CASC 502 institute (Beijing Institute of Control Engineering)	CASC 510 institute (Lanzhou Institute of Space Technology Physics)	AVIC 181 factory (Wuhan Aviation Instrument Co., Ltd)	AVIC 607 institute (China Leihua Electronic Technology Research Institute)	CSIC 719 institute (Wuhan Second Ship Design and Research Institute)	CSIC 704 institute (Shanghai Shipbuilding Equipment Research Institute)	CSIC 726 institute (Shanghai Institute of Ship Electronic Equipment)
CASIC 206 institute (Beijing Institute of Mechanical Equipment)	CASIC 307 factory (Aerosun Corporation)	AVIC 304 institute (Beijing Great Wall Metrology and Testing Technology Research Institute)	AECC 606 institute (Shenyang Engine Research Institute)	Jiangnan Shipbuilding (Group) Co., Ltd	Nanjing Panda Electronics Co., Ltd	State owned 741 Factory (Nanjing East China Electronics Group Co., Ltd.)
CASIC 33 institute (Institute 33 of Aerospace Science and Industry Third Institute)	CASIC 3651 factory (Guizhou Aerospace Linquan Motor Co., Ltd)					

Scientific Research&Third Party Quality Inspection Institutions

	Institute of Physical and Chemical Technology (Beijing)		上海电器科学研究所(集团)有限公司 Shanghai Electrical Apparatus Research Institute (Group) Co., Ltd.
	Urban Environment Research Institute (Xiamen)		苏州电器科学研究院股份有限公司 国家智能电网中高压成套设备质量监督检验中心 国家电器产品质量监督检验中心
	Institute of Electrical Engineering (Beijing)		长春市产品质量监督检验院 Changchun product quality supervision and inspection institute
	Institute of Applied Physics (Shanghai)		西安市产品质量监督检验院 Xi'an Supervision & Inspection Institute of Product Quality
	中国工程物理研究院 CHINA ACADEMY OF ENGINEERING PHYSICS		杭州市质量技术监督检测院 Hangzhou Technical Supervision and Procuratorate
	中国科学院 CHINESE ACADEMY OF SCIENCES		
	中国地震局 地壳应力研究所 The Institute of Crustal Dynamics		
	福建省产品质量检验研究院 FUJIAN INSPECTION AND RESEARCH INSTITUTE FOR PRODUCT QUALITY		

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Cooperative Clients

The Chinese People's Liberation Army

South China Sea Fleet
 East China Sea Fleet
 North Sea Fleet
 Navy Factory 701/702
 4724 Factory (Shanghai Haiying Machinery Factory)
 95861 Unit (Air First Base)
 The 5720th Factory of the People's Liberation Army of China

Commercial Aviation



Rockwell Collins



Beijing Aircraft Maintenance Engineering Co., Ltd

Military Academies And Local Universities



National University of Defense Technology



Aerospace Engineering University



Army Engineering University



Air Force Engineering University



Naval University of Engineering



Dalian Naval Academy



Naval Aviation University



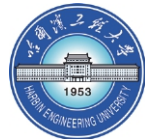
Beihang University



Beijing Institute of Technology



Harbin Institute of Technology



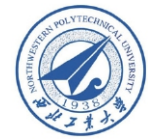
Harbin Engineering University



Nanjing University of Aeronautics and Astronautics



Nanjing University of Science and Technology



Northwestern Polytechnical University



University of Science and Technology of China



Tsinghua University



Peking University



Shanghai Jiaotong University



Zhejiang University



Tianjin University



Huazhong University of Science and Technology



University of Electronic Science and Technology



Shanghai University



Beijing University of Technology



Shanghai Maritime University



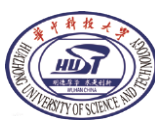
Dalian University of Technology



Dalian Maritime University



South China University of Technology



Huazhong University of Science and Technology



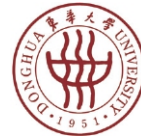
Xi'an Electronic Technology



Xi'an Jiaotong University



Sichuan University



Donghua University



North China Institute of Aerospace Engineering



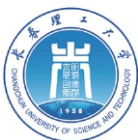
Fudan University



Xiamen University



North China Electric Power University



Changchun Institute of Technology



Xiangtan University



Zhejiang University of Technology



Xi'an University of Technology



University of Electronic Science and Technology of China

Official WeChat:
hypower-cn



About us

Hangyu Power was founded in 2011 and is a national high-tech enterprise. Located in Songjiang, the birthplace of the G60 Science and Technology Innovation Corridor in the Yangtze River Delta, for over a decade Strive to provide customers with accurate, intelligent, and convenient testing power solutions Plan.

Our company adheres to the product positioning of "specialty, precision, specialty, and novelty", and On the basis of targeting the market demand for "import substitution", propose "poor The development strategy of "differentiated import substitution" and "high-quality manufacturing" is committed to Innovative development of testing power supply technology in China, promoting the rejuvenation of science and technology in China The national cause is thriving.

Hangyu Power Series products cover power semiconductors, automotive electronics Aerospace, Defense and Military Industry, Low Voltage Electrical Appliances, Medical, Sensors Capacitors, inductors, smart grids, airborne, shipborne, weapons, ships.

Radar, communication, rail transit, power electronics, and other testing and other disciplines In the field of research, we strive to achieve perfect import substitution, with excellent military quality and service,

Win unanimous praise from users.

Contact us

Tel: +86 1380 1800 699

Email: sales@hangyupower.com
neo@hangyupower.com

Address: Building 9, No. 615 Lianhe Road, Songjiang District, Shanghai, China

website: www.hangyupower.com

- 2009 ● Establishing Shanghai Ouzu Electronics Brand
- 2010 ● Successfully delivered 400kVA high-power AC power supply
- 2011 ● Hangyu Power Supply was established and officially put into operation as a three-phase precision AC power supply and military Using a gyroscope to test the power supply, replacing Russian made products
- 2012 ● Formal production of programmable variable frequency power supply and AC constant current source
- 2013 ● Formal production of programmable AC/DC power supply and HY-AE excitation power supply
- 2014 ● Formal production of high-power bipolar testing power supply
- 2015 ● Formal production of HY-PM series and HY-GT series new models Dual phase/three-phase gyroscope power supply
- 2016 ● HY-HP series programmable high-power DC power supply officially put into operation
- 2017 ● HY-HV series programmable high-voltage DC power supply officially put into operation
- 2018 ● HY-CTL/CTS capacitor testing high-frequency high current testing power supply And successfully delivered 100kHz, 100Arms
- 2019 ● Official production of high-speed power supply for automotive electronic testing within 500kHz
- 2020 ● Officially put into operation LV123 new energy vehicle testing high-voltage ripple testing power supply
- 2021 ● HY-UHS series ultra-high stability magnet power supply officially put into operation
- 2022 ● HY-HVL series linear high-voltage programmable DC power supply officially put into operation

