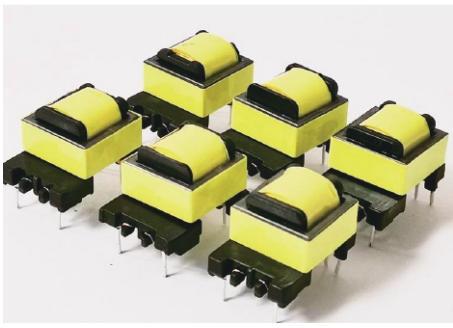
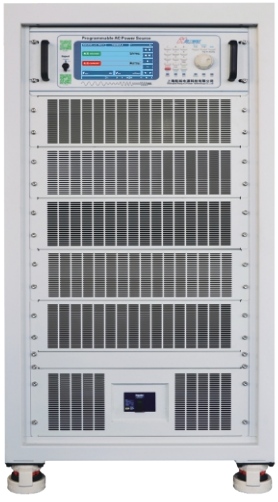
HY-WF Series

Programmable Wide-Frequency Power Source

Military Quality Power Expert

AC&DC Power Source





www.hypower.cn

HY-WF Series Programmable Wide-Frequency Power Source

High purity
High precision
High reliability

Product Features

- Output frequency range 300Hz-550kHz
- Output capacity range 50VA-2000VA
- Output voltage optional range AC 0-300Vrms
- Support front panel programming, no need for PC software control
- Voltage rising and falling slopes are adjustable
- Power output soft-start function
- 16 bits D/A high precision converter, accurate output
- 16 bits A/D high precision converter, more accurate readback
- Multiple protection functions OVP/OCP/OTP
- 19-inch standard rack size or floor-standing cabinet
- 4 inch & 7 inch large LCD screen
- Touch screen operation & numeric key input
- Multi-level shuttle adjustment knob
- The power input is controlled by a circuit breaker, which is more secure
- Output ON/OFF button
- Fan intelligent speed regulation design to reduce noise
- Front/side air intake, rear air outlet, saving cooling space
- Support Modbus protocol
- Standard interface: RS-485&RS-232
- Optional interface: LAN&CAN
  USB
  GPIB
  Analog programming and monitoring (isolated)

Application Field

- High frequency transformer
- Current Transformer
- Sensor
- Piezoelectric Ceramics
- Magnetic material
- Scientific research

HY-WF Series Product Selection Table

In the selection table, special specifications outside the range of voltage/ frequency/output capacity can be customized

HY-WF Series Programmable Wide-Frequency Power Source				
Output frequency (Hz)	Output voltage(Vrms)/Output capacity(VA)			
	300Vrms	150Vrms	50Vrms	30Vrms
300Hz-10kHz	-		2000VA/1000VA/500VA	
300Hz-50kHz			300VA/100VA/50VA	
5kHz-100kHz	1000VA/500VA/300VA/100VA			
5kHz-150kHz				
5kHz-200kHz				
5kHz-300kHz				
10kHz-300kHz				
100kHz-550kHz				

Product Model Naming Rules

Product series	Output voltage		Output current		Customized function
HY-WF	10	-	30	-	100k
Series name	Output voltage is 10V		Output current is 30A		Optional frequency Max:100kHz

Selection example:
Product model: HY-WF 10-300-100k
Output voltage 0-10V, output current 30A, optional frequency Max: 100kHz

AC Input	
Wiring	L+N+PE（1Φ）
Input voltage	220V±10%
Input frequency	47Hz - 63Hz
AC Output	
Wiring	L+N+PE（1Φ）
Output capacity	50VA - 2000VA (Customization is acceptable)
Output voltage	Optional voltage range AC 0 -300Vrms (Customization is acceptable)
Output frequency	Optional range 300HZ - 550kHZ (Customization is acceptable)
Input Regulation	≤1%F.S.（Resistive test）
Waveform distortion(THD)	Sine wave，THD<3%
Programming And Readback Accuracy & Resolution	
Frequency Output | Programming Accuracy	±0.01% F.S.
Voltage Setting | Resolution	0.01V
Frequency Setting | Resolution	0.01Hz
Voltage Readback | Resolution	0.01V
Current Readback | Resolution	0.01A
Frequency Readback | Resolution	0.01Hz
Protective Function	
Protective function	OVP, OCP, internal overheating, short circuit
Environmental Conditions	
Surroundings	Indoor use; installation overvoltage class: II; pollution class: P2; class II equipment
Working temperature	0℃ to 45℃；optional -20℃ to 45℃
Storage ambient temperature	-20℃ to 65℃
Working environment humidity	20%-90%RH，no condensation, continuous operation
Storage environment humidity	10%-95%RH，no condensation
Altitude	Above 2000 meters above sea level, the power decreases by 2% for every 100 meters, or the maximum working environment temperature decreases by 1 °C every 100 meters;When not in operation, up to 12,000 meters above sea level
Cool down	Forced air cooling, intelligent speed-adjustable fan, air intake from both sides/front, air out from the rear
Noise	≤ 65dB(A)，weighted measurements with 1m

HY-WF Series Technical Parameters

Control Panel	
Display	4"/7", LCD display, touch screen
Show items	Voltage (set value & measurement value), current measurement value, operating time, cumulative operating time, current time and date
Control function	Digital key input, multi-level shuttle knob adjustment (coarse adjustment of outer ring / fine adjustment of inner ring) Output ON/OFF switch, Lock keyboard and touch lock, Reset restart Status Indicators (Shift / Local / Remote / Alarm / Lock / Output)
Programming function	Step/ladder/gradient
Communication Interface	
Standard	RS-485 & RS-232
Options	LAN、CAN、USB、GPIB, analog programming and monitoring interface (isolated)
Appearance Color & Size	
Color	RAL 7035
Size	4U, standard 19-inch rack type, or desktop desktop (with fixed feet); 10U, standard 19-inch rack type, or floor table (with movable universal casters and brakes); 18U and above, floor-standing cabinet, with movable swivel casters and brakes.

Customized Interface

- LAN LAN Communication Interface
- CAN CAN Communication Interface
- USB USB Communication Interface
- GPIB GPIB Communication Interface
- APM Analog programming and monitoring interface (isolated)

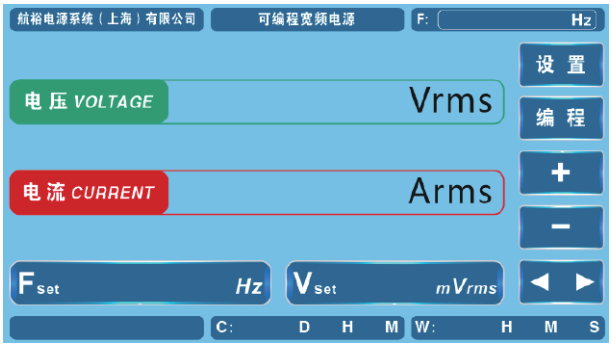
Customized Function

- T2 Operating temperature -20℃ to 45℃
- CF User-defined functions (please specify when ordering)
- MR Measurement report (issued by a third party certified by CNAS)

*The equipment runs continuously for more than 30 minutes at the specified operating temperature All technical indicators can be guaranteed.

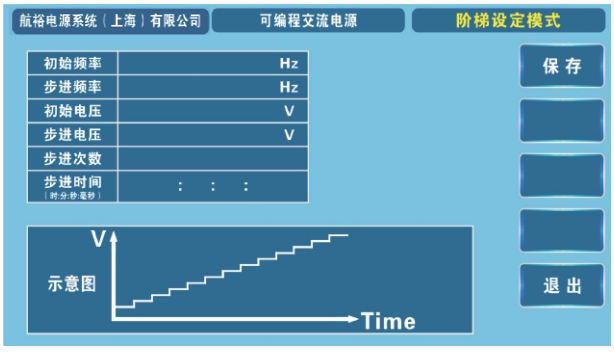
Programmable Function

Programmable Function Introduction



Main interface of single-phase power supply

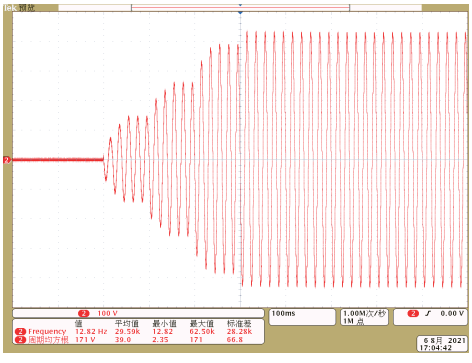
The step setting page can set the desired frequency, voltage, Run time, initial step, end step, and number of cycles



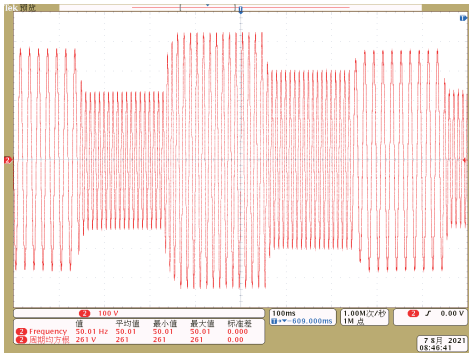
The ladder setup page can set the desired initial frequency, Step frequency, initial voltage, step voltage, step times and. Step time

The gradient settings page can set the desired voltage and frequency. Run time, initial step, end step

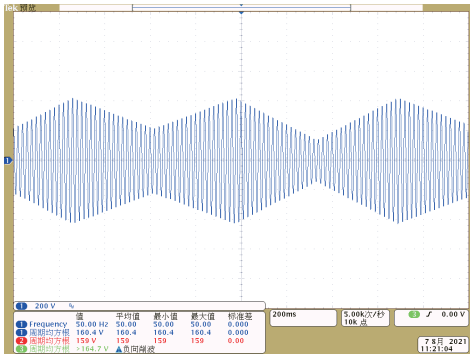
Single Phase



Step

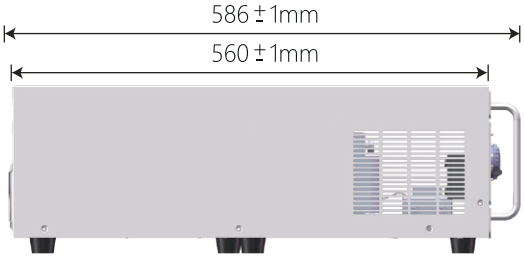


Ladder

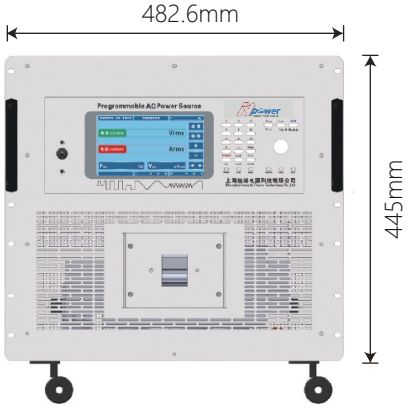


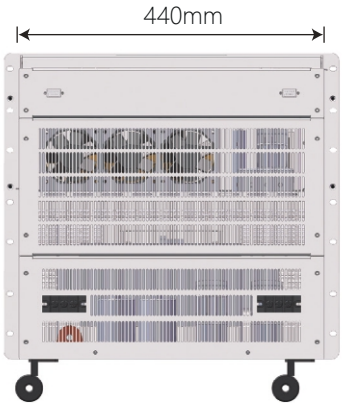
Gradient

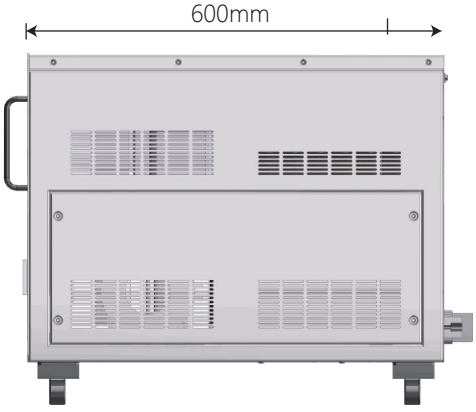
4U 430(W)*560(D)*178(H)mm



10U 440(W)*600(D)*445(H)mm

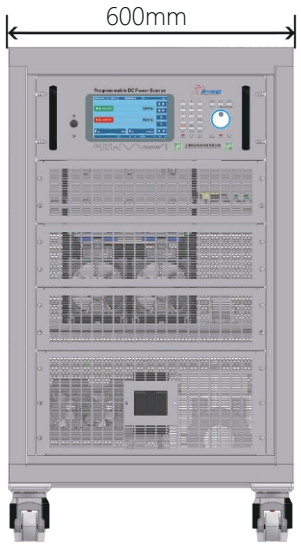


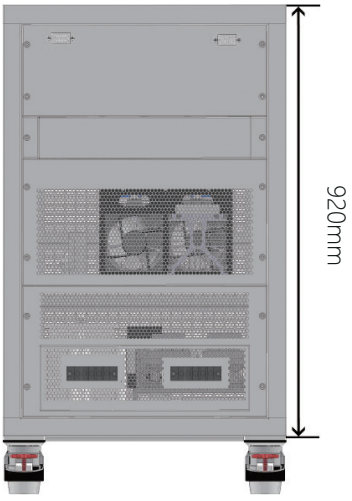


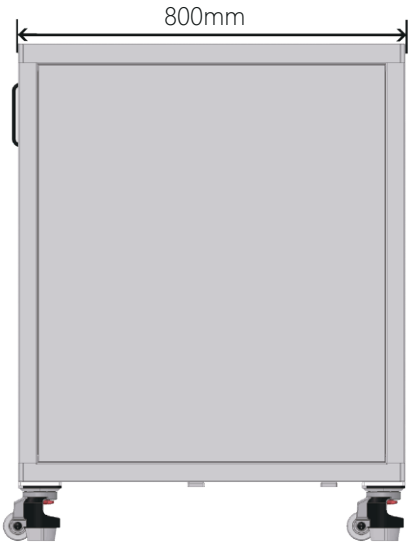


Outline Dimension

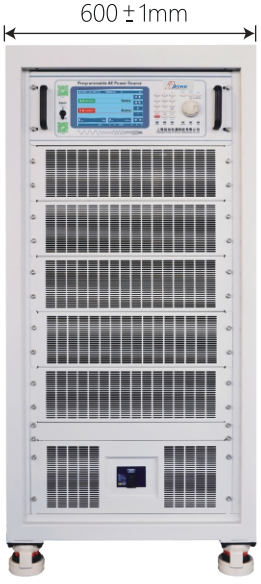
18U 600(W)*800(D)*920(H)mm

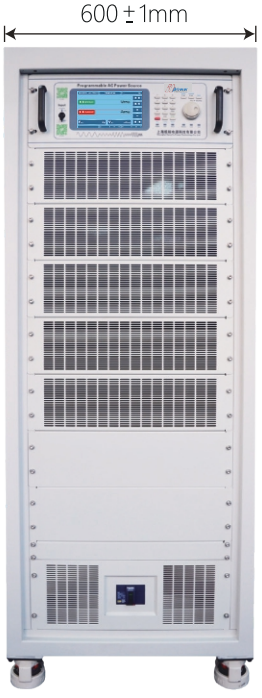


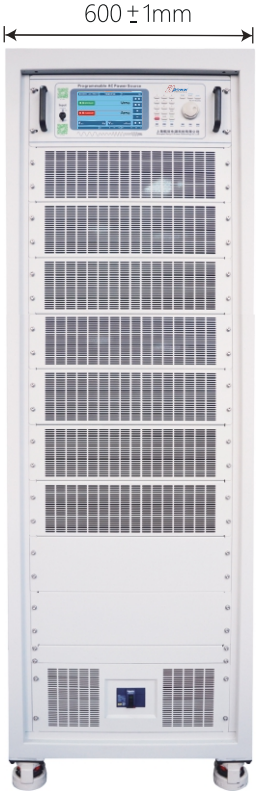




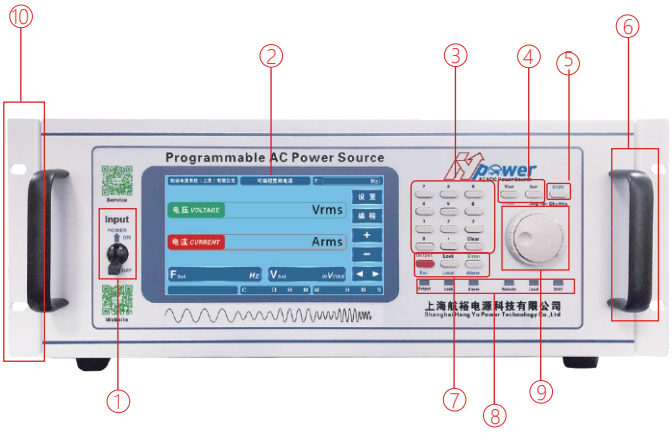
24U 600(W)*800(D)*1190(H)mm
30U 600(W)*800(D)*1453(H)mm
36U 600(W)*800(D)*1718(H)mm





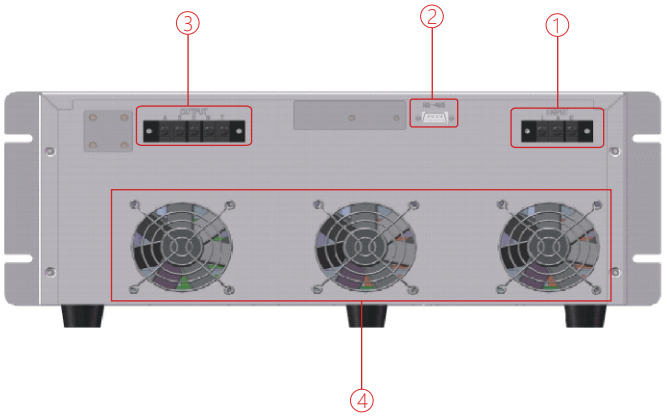


Control Panel



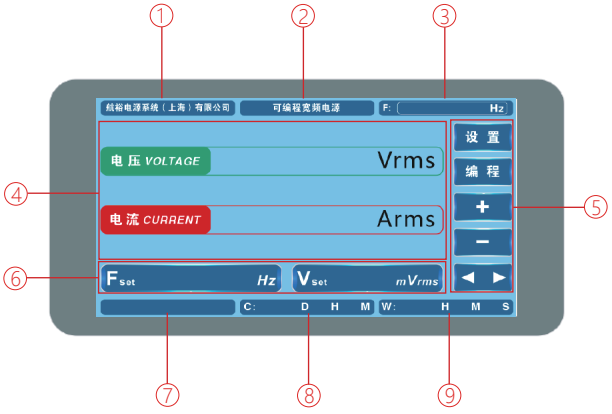
① Power input circuit breaker
② LCD monitor (7 inches, touch screen)
③ Numerical input keyboard
④ Frequency/voltage or current setting key
⑤ Shift function key
⑥ Chassis handle
⑦ Lock to lock, Enter to confirm, Esc to exit
Local local, Reset restart
Output ON/OFF switch
⑧ Status indicator
⑨ Multi-stage shuttle adjustment knob (fine adjustment of inner ring/coarse adjustment of outer ring)
⑩ 19-inch standard rack mounting holes

Rear Panel



① AC input terminal
② RS485 and RS232 communication interface
③ AC output terminal
④ Cooling air outlet

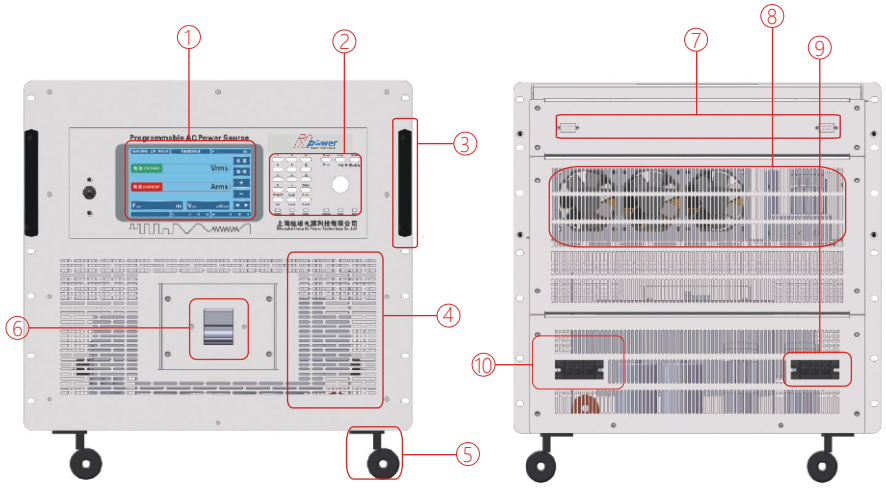
Display Interface



① Manufacturer's name
② Product name
③ Product frequency
④ Three-phase voltage and current display area
⑤ Function setting area
⑥ Frequency/voltage setting value
⑦ Current time
⑧ Cumulative running time
⑨ The current running time

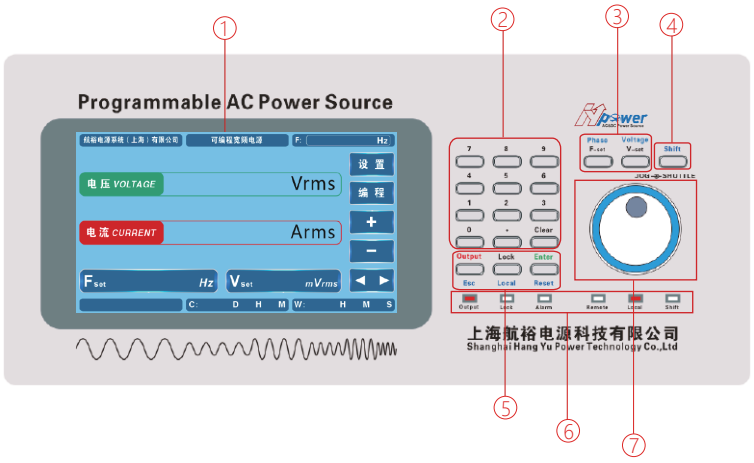
Display & Control Pannel

Front Panel & Rear Panel



① LCD display (7 inches, touch screen)
② Control area
③ 19-inch standard rack handle
④ Cooling air inlet
⑤ Casters
⑥ Power input circuit breaker
⑦ Communication interface
⑧ Cooling air outlet
⑨ AC input terminal
⑩ AC output terminal

Control Panel



① LCD display (7 inches, touch screen)
② Numerical input keyboard
③ Frequency/voltage or current setting key
④ Shift function multiplexing key
⑤ Lock to lock, Enter to confirm, Esc to exit
Local local, Reset restart
Output ON/OFF switch
⑥ Status indicator
⑦ Multi-stage shuttle adjustment knob (fine adjustment of inner ring/coarse adjustment of outer ring)

Cooperative Clients (Partial)

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)
- CASC 803 institute (Shanghai Institute of Space Propulsion)
- CASC 804 institute (Shanghai Aerospace Electronic Communication Equipment Research Institute)
- CASC 805 institute (Shanghai Aerospace Systems Engineering Research Institute)
- CASC 808 institute (Shanghai Institute of Precision Metrology and Testing)
- CASC 811 institute (Shanghai Space Power Research Institute)
- CASC 812 institute (Shanghai Satellite Equipment Research Institute)
- CASC 502 institute (Beijing Institute of Control Engineering)
- CASC 510 institute (Lanzhou Institute of Space Technology Physics)
- CASIC 206 institute (Beijing Institute of Mechanical Equipment)
- CASIC 307 factory (Aerosun Corporation)
- CASIC 33 institute (Institute 33 of Aerospace Science and Industry Third Institute)
- CASIC 3651 factory (Guizhou Aerospace Linquan Motor Co., Ltd)
- AVIC 603 institute (AVIC Xi'an Aircraft Design and Research Institute)
- AVIC 613 institute (China Aviation Industry Group Luoyang Electro Optic 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)
- AVIC 631 institute (AVIC Aerospace Computing Technology Research Institute)
- AVIC 105 factory (Tianjin Aviation Electromechanical Co., Ltd)
- AVIC 115 factory (Shaanxi Aviation Electric Co., Ltd)
- AVIC 118 factory (Shanghai Aviation Electrical Appliances Co., Ltd)
- AVIC 181 factory (Wuhan Aviation Instrument Co., Ltd)
- AVIC 607 institute (China Leihua Electronic Technology Research Institute)
- AVIC 304 institute (Beijing Great Wall Metrology and Testing Technology Research Institute)
- AECC 606 institute (Shenyang Engine 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)
- CETC 36 institute (Jiangnan Electronic Communication Research Institute)
- CETC 38 institute (East China Electronic Engineering Research Institute)
- 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)
- 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)
- 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)
- Jiangnan Shipbuilding (Group) Co., Ltd
- Nanjing Panda Electronics Co., Ltd
- State owned 741 Factory (Nanjing East China Electronics Group Co., Ltd.)

Scientific Research & Third Party Quality Inspection Institutions

- Institute of Physical and Chemical Technology (Beijing)
- Urban Environment Research Institute (Xiamen)
- Institute of Electrical Engineering (Beijing)
- Institute of Applied Physics (Shanghai)

中国科学院 CHINESE ACADEMY OF SCIENCES

SEARI 上电科 上海電器科學研究所(集团)有限公司 Shanghai Electrical Apparatus Research Institute (Group) Co., Ltd.

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

中国工程物理研究院 CHINA ACADEMY OF ENGINEERING PHYSICS

长春市产品质量监督检验院 Changchun product quality supervision and inspection institute

中国地震局 地壳应力研究所 The Institute of Crustal Dynamics

西安市产品质量监督检验院 Xi'an Supervision & Inspection Institute of Product Quality

福建省产品质量检验研究院 FUJIAN INSPECTION AND RESEARCH INSTITUTE FOR PRODUCT QUALITY

杭州市质量技术监督检测院 Hangzhou Technical Supervision and Procuratorate

Cooperative Clients (Partial)

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

Commercial Aircraft Corporation of China Limited

Rockwell Collins

Guangzhou Aircraft Maintenance Engineering Co., Ltd

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

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
- polary
- 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
- HONGFA
- EOPLE
- FLUKE
- Philips
- Gree
- Guilin Rubber Machinery Factory
- CASCO
- CRRC
- US PI
- HILTI
- BOSCH
- linde
- NARI-TECHNOLOGY
- Shanghai Electric
- New Thunder Energy
- Silan

Official WeChat:
HY Power-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 solutionsPlan.

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 q uality and service,

Win unanimous praise from users.

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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 militaryUsing 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