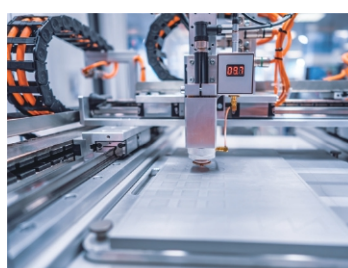


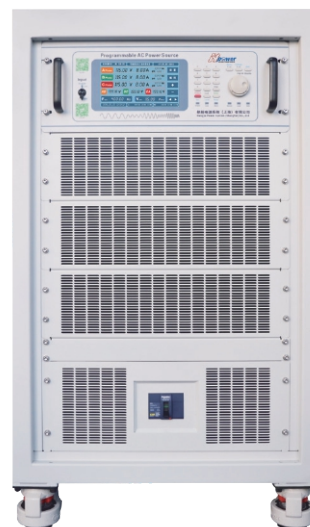
HY-PSA Series Programmable Switching AC Power Supply



Hangyu Power System (Shanghai) Co., LTD



3年
免费保修期



HY-PSA Series Programmable Switching AC Power Supply



High Power
High Precision
High Reliability



Application Field

- motor
- Household appliance industry
- Testing laboratory
- Industrial power supply
- Motor/Compressor
- IT manufactures electronics
- New energy
- Medical treatment
- Dock shore power/shipyard
- National defense industry



Product Features

- Output frequency range 45Hz-70Hz
- Output power range 1kVA-900kVA
- Output voltage L-N 0-150 Vrms/300Vrms/1 kVrms
- Three-phase voltage independent adjustable, phase difference 0-359.99° adjustable
- Support front panel programming, without computer software control
- The voltage rise and fall slopes are adjustable
- Power output soft start function
- 16 bits D/A high precision converter for accurate output
- 16 bits A/D high precision converter, more accurate read back
- Multiple protection functions OVP, OCP, and OTP
- Standard 19-inch rack size, or floor-to-ceiling cabinet
- 7 inch LCD screen
- Touch screen operation & digital key input
- Multistage shuttle adjustment knob
- The power input is controlled by circuit breaker, which is more secure
- Output the ON/OFF button
- Fan intelligent speed control design, reduce noise
- Supports Modbus protocol
- Supports Modbus protocol
- Optional interface: LAN、CAN、GPIB、USB
Analog programming and monitoring (isolated)

PSA

01

HY-PSA Series Product Selection Table

Product Model Naming Rules

Product Series	Input Phase Number	Output Phase Number	Output Capacity	Optional Function
HY-PSA	1	3	003	- CF
Series name	1: Input single phase 3: Input three-phase	1: Output single phase 3: Output three-phase	Output capacity 3kVA	Short for optional function See Optional features
Selection examples: Product model: HY-PSA 13003-CF Input single-phase, output three-phase, output capacity 3kVA, optional user-defined function.				

Optional Function

- HR — High resolution/high precision
- D028 — DC input, DC 28.5V(some models support, please specify when ordering)
- D270 — DC input, DC 270V(some models support, please specify when ordering)
- T2 — operating temperature -20°C to 45°C
- CF — user-defined function (please specify when ordering)
- MR — Measurement Report (issued by CNAS certified third party)

In the selection table, special specifications outside the voltage/frequency/output capacity range are accepted for customization.

PSA

02

Product Model	Output Capacity	Input	Exportation	Product Model	Output Capacity	Input	Exportation	Phase Voltage (L-N, Vrms)	Output Frequency
HY-PSA 11001	1kVA	Single phase		HY-PSA 1315L	1.5kVA	Single phase		0-150V 0-300V High and low output 0-600V 0-1000V (assorting)	45-70Hz
HY-PSA 11002	2kVA			HY-PSA 13003	3kVA				
HY-PSA 11003	3kVA			HY-PSA 1345L	4.5KVA				
HY-PSA 11005	5kVA			HY-PSA 33010	10kVA				
HY-PSA 31010	10kVA	Three phase	Single phase	HY-PSA 33015	15kVA	Three phase			
HY-PSA 31015	15kVA			HY-PSA 33030	30kVA				
HY-PSA 31030	30kVA			HY-PSA 33045	45kVA				
HY-PSA 31045	45kVA			HY-PSA 33060	60kVA				
HY-PSA 31060	60kVA			HY-PSA 33075	75kVA				
HY-PSA 31075	75kVA			HY-PSA 33090	90kVA				
HY-PSA 31100	100kVA			HY-PSA 33120	120kVA				
HY-PSA 31120	120kVA			HY-PSA 33150	150kVA				
HY-PSA 31150	150kVA			HY-PSA 33180	180kVA				
HY-PSA 31180	180kVA			HY-PSA 33210	210kVA				
HY-PSA 31200	200kVA			HY-PSA 33240	240kVA				
HY-PSA 31250	250kVA			HY-PSA 33300	300kVA				
HY-PSA 31300	300kVA			HY-PSA 33450	450kVA				
HY-PSA 31450	450kVA			HY-PSA 33600	600kVA				
HY-PSA 31500	500kVA			HY-PSA 33900	900kVA				

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

HY-PSA Series Technical Parameters

Single-phase output

Single in, single out					Three in, one out						
Product model	PSA 11001	PSA 11002	PSA 11003	PSA 11005	PSA 31010	PSA 31015	PSA 31030	PSA 31045	PSA 31060	PSA 31075	PSA 31100
Power	1kVA	2kVA	3kVA	5kVA	10kVA	15kVA	30kVA	45kVA	60kVA	75kVA	100kVA
Model size	4U	4U	10U	10U	15U	18U	30U	404	405	405	405
	*1) 4U, standard 19-inch rack mount, or tabletop (fixed pad); 2) 10U, standard 19-inch rack type, or floor type (with movable universal casters and brakes); 3) 15U, 18U and above non-standard cabinets, floor type cabinets, with movable universal casters and brakes.										
Circuit mode	IGBT/PWM pulse width modulation mode										
Communication mode	Standard: RS-485 & RS-232 Options: LAN, CAN, USB, GPIB, analog programming and monitoring interface (isolated type)										

Input

Connection mode	Single-phase two-wire + Ground (LN+PE)	Three-phase three-phase + Ground wire & Three-phase four-wire + Ground wire (ABC+PE/ABCN+PE)
Input phase	Single phase 1Φ	Three-phase 3Φ
Input waveform	Sinusoidal wave	Sinusoidal wave
Input voltage	220Vrms±15%	380Vrms±15%
Input frequency	47Hz-63Hz	47Hz-63Hz

Exportation

Output phase	Single phase 1Φ											
Rated set voltage	L-N 0-300Vrms continuously adjustable (high grade), L-N 0-150Vrms continuously adjustable (low grade), Max1000Vrms continuously adjustable (optional model, output current will be reduced proportionally)											
Rated current	Top grade	3.34A	6.67A	10A	16.67A	33.34A	50A	100A	150A	200A	250A	333.34A
	low-end	6.67A	13.34A	20A	33.34A	66.67A	100A	200A	300A	400A	500A	666.67A
	Annotation	The high grade rated current calculated based on 300V voltage; The low rated current is calculated based on the 150V voltage.										
Maximum current	Top grade	4.2A	8.4A	12.5A	20.84A	41.68A	62.5A	125A	187.5A	250A	312.5A	416.68A
	low-end	8.4A	16.7A	25A	41.7A	83.34A	125A	250A	375A	500A	625A	833.34A
	Annotation	The high grade maximum current is calculated according to 300V voltage; The maximum low current is calculated based on the 150V voltage.										
Frequency	45Hz-70Hz Continuously adjustable											

Property

Input adjustment rate	≤0.5%F.S. (Resistance test)
Load adjustment rate	≤1%F.S. (Resistance test)
Waveform distortion (THD)	Sine wave, THD≤2% below 100kVA; 100kVA-300kVA THD≤3%; ≤5% above 300kVA (resistance test)
Efficiency	≤150kVA model efficiency ≥90%; > 150kVA model efficiency ≥92%;
Frequency stability	≤0.02%F.S.
Voltage stability	≤0.5%F.S.
Voltage crest coefficient	1.414±0.05
Noise	≤65dB(A), use 1m to weigh the measurement

PSA

03

HY-PSA Series Technical Parameters

Programming And Readback Accuracy & Resolution

Settings	Voltage output programming accuracy	$\pm 0.5\%F.S.$
	Frequency output programming accuracy	$\pm 0.01\%F.S.$
	Voltage setting resolution	0.01V
	Frequency setting resolution	0.01Hz
Backward read	Voltage output read-back accuracy	$\pm 0.5\%F.S.$
	Current output read back accuracy	$\pm 0.5\%F.S.$
	Frequency output read-back accuracy	$\pm 0.01\%F.S.$
	Voltage read back resolution	0.01V
	Current read back resolution	0.01A
	Frequency read-back resolution	0.01Hz

Protection Function

Protection function	Overvoltage, overcurrent, internal overheating, short circuit
Overload capacity	125% current 15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately
Memory function	Parameters of the last run
Preset function	Adjust the output voltage and frequency online

Environmental Condition

Environment	Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment
Operating ambient temperature	0°C to 45°C; Choose from -20°C to 45°C
Storage ambient temperature	-20°C to 65°C
Working ambient 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 is reduced by 2% per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters;When not in operation, it can reach an altitude of 12,000m.
Cooling condition	Forced air cooling, intelligent speed control fan, both sides/front air, rear air
Transport condition	Road transport

Control Panel

Display	7 inches, LCD LCD display, touch screen
Display item	Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display, Frequency set value, working time, cumulative working time, current time and date
Control function	Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator
Mode of operation	Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment)
Control mode	Local control/remote control
Programming function	Step/ladder/gradient

PSA

04

HY-PSA Series Technical Parameters

Three-phase output											
One in, three out				Three in, three out							
Product model	PSA 1315L	PSA 13003	PSA 1345L	PSA 33010	PSA 33015	PSA 33030	PSA 33045	PSA 33060	PSA 33075	PSA 33090	
Power	1.5kVA	3kVA	4.5kVA	10kVA	15kVA	30kVA	45kVA	60kVA	75kVA	90kVA	
Model size	4U	4U	10U	18U	18U	30U	404	405	405	405	
	*1) 4U, standard 19-inch rack mount, or tabletop (fixed pad); 2) 10U, standard 19-inch rack type, or floor type (with movable universal casters and brakes); 3) 15U, 18U and above non-standard cabinets, floor type cabinets, with movable universal casters and brakes.										
Circuit mode	IGBT/PWM pulse width modulation mode										
Communication mode	Standard: RS-485 & RS-232 Options: LAN, CAN, USB, GPIB, analog programming and monitoring interface (isolated type)										
Input											
Connection mode	Single-phase two-wire + Ground (LN+PE)			Three-phase three-phase + Ground wire & Three-phase four-wire + Ground wire (ABC+PE/ABCN+PE)							
Input phase	Single phase 1Φ			Three-phase 3Φ							
Input waveform	Sinusoidal wave			Sinusoidal wave							
Input voltage	220Vrms±15%			380Vrms±15%							
Input frequency	47Hz-63Hz			47Hz-63Hz							
Exportation											
Output phase	Sinusoidal wave										
Rated set voltage	L-N 0-300Vrms Continuously adjustable (high grade), L-N 0-150Vrms continuously adjustable (low grade) Max1000Vrms continuously adjustable (optional model, output current will be reduced proportionally)										
Rated current	Top grade	1.67A	3.34A	5A	11.1A	16.67A	33.34A	50A	66.67A	83.34A	100A
	low-end	3.34A	6.67A	10A	22.2A	33.34A	66.67A	100A	133.34A	166.67A	200A
	Annotation	The high-grade rated current is calculated according to 300V voltage; The low rated current is calculated based on the 150V voltage.									
Maximum current	Top grade	2.1A	4.2A	6.3A	13.9A	20.84A	41.68A	62.5A	83.34A	104.18A	125A
	low-end	4.2A	8.4A	12.5A	27.8A	41.68A	83.34A	125A	166.68A	208.34A	250A
	Annotation	The high grade maximum current is calculated according to 300V voltage; The maximum low current is calculated based on the 150V voltage.									
Frequency	45Hz-70Hz continuously adjustable										
Property											
Input adjustment rate	≤0.5%F.S. (Resistance test)										
Load adjustment rate	≤1%F.S. (Resistance test)										
Waveform distortion(THD)	Sine wave, THD≤2% below 100kVA; 100kVA-300kVA THD≤3%; ≤5% above 300kVA (resistance test)										
Efficiency	≥90%										
Frequency stability	≤0.02%F.S.										
Voltage stability	≤0.5%F.S.										
Voltage crest coefficient	1.414±0.05										
Voltage unbalance	Three-phase output ≤1Vrms (no load or balanced load)										
Phase difference	Load three-phase balance or no-load ±2°										
Three-phase voltage/phase difference	Three-phase voltage independent adjustable, phase difference 0-359.99° adjustable										
Noise	≤65dB(A), use 1m to weigh the measurement										

PSA

05

HY-PSA Series Technical Parameters

Programming And Readback Accuracy & Resolution

Settings	Voltage output programming accuracy	±0.5%F.S.
	Frequency output programming accuracy	±0.01%F.S.
	Voltage setting resolution	0.01V
	Frequency setting resolution	0.01Hz
Backward read	Voltage output read-back accuracy	±0.5%F.S.
	Current output read back accuracy	±0.5%F.S.
	Frequency output read-back accuracy	±0.01%F.S.
	Voltage read back resolution	0.01V
	Current read back resolution	0.01A
	Frequency read-back resolution	0.01Hz

Protection Function

Protection function	Overvoltage, overcurrent, internal overheating, short circuit
Overload capacity	125% current 15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately
Memory function	Parameters of the last run
Preset function	Adjust the output voltage and frequency online

Environmental Condition

Environment	Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment
Operating ambient temperature	0°C to 45°C; Choose from -20°C to 45°C
Storage ambient temperature	-20°C to 65°C
Working ambient 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 is reduced by 2% per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters;When not in operation, it can reach an altitude of 12,000m.
Cooling condition	Forced air cooling, intelligent speed control fan, both sides/front air, rear air
Transport condition	Road transport

Control Panel

Display	7 inches, LCD LCD display, touch screen
Display item	Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, cumulative working time, current time and date
Control function	Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator
Mode of operation	Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment)
Control mode	Local control/remote control
Programming function	Step/ladder/gradient

PSA

06

4U 433(W)*560(D)*177(H)mm



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



Size

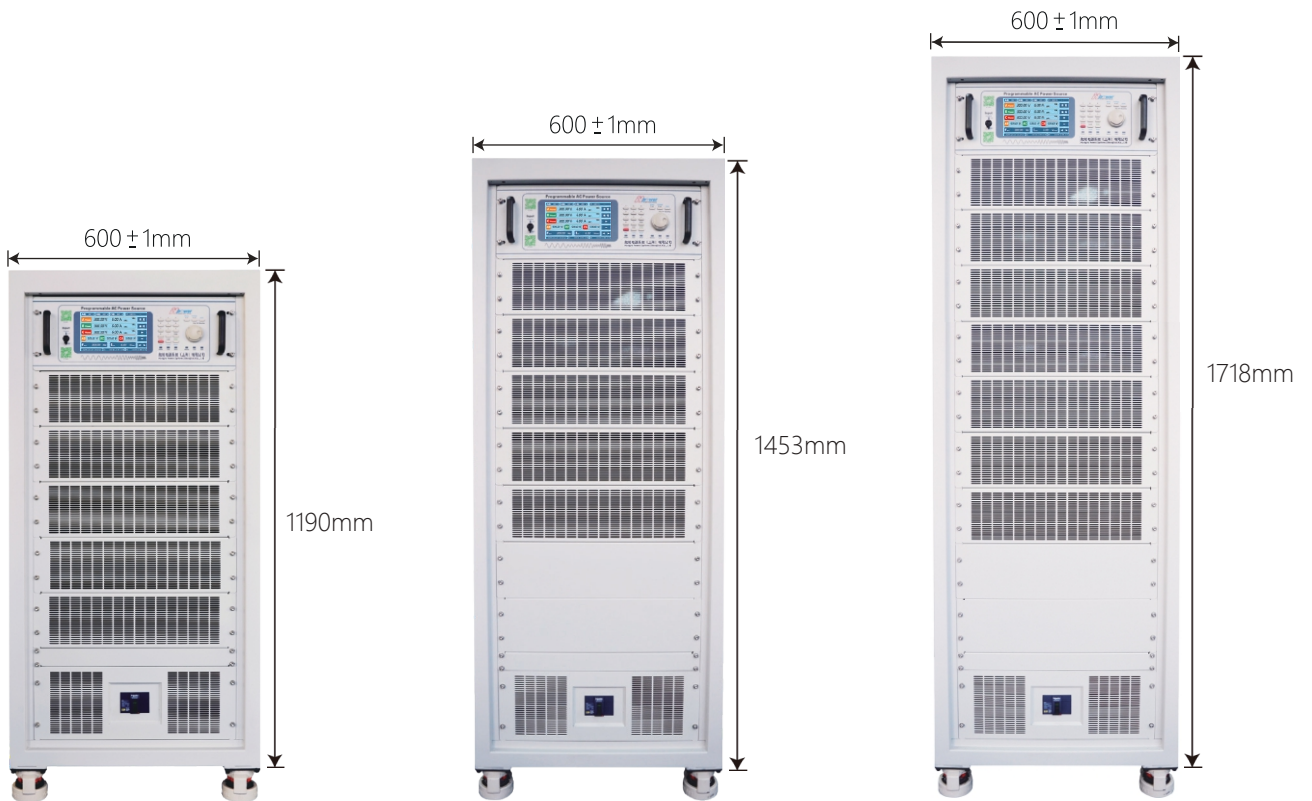
07

Appearance&Size

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

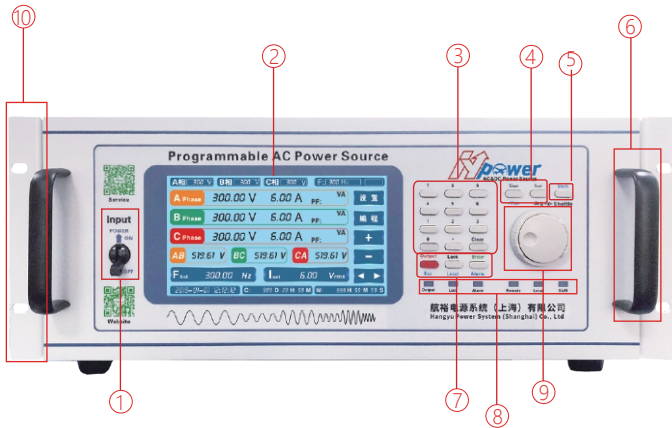


Size

08

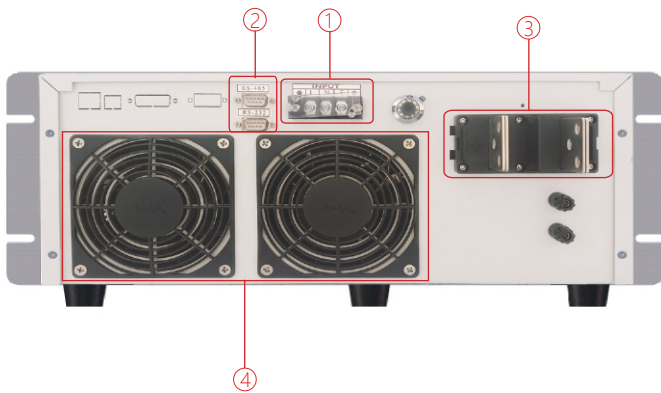
Display And Control Panel

Control Panel



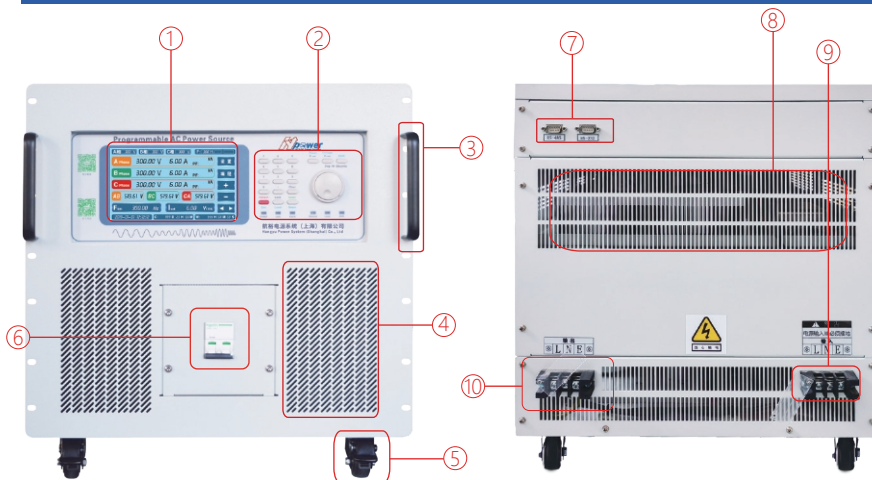
- ① Power input circuit breaker
- ② LCD display (7 inches, touch screen)
- ③ Numeric input keyboard
- ④ Frequency/voltage or current setting key
- ⑤ Shift function reuse key
- ⑥ Chassis handle
- ⑦ Lock Lock, Enter confirm, Esc exit
Local Local or Reset Restarts
Output ON/OFF Switch
- ⑧ Status indicator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

Rear Panel



- ① AC input terminal
- ② RS-485 & RS-232 communication interface
- ③ AC output terminal
- ④ Heat dissipation outlet

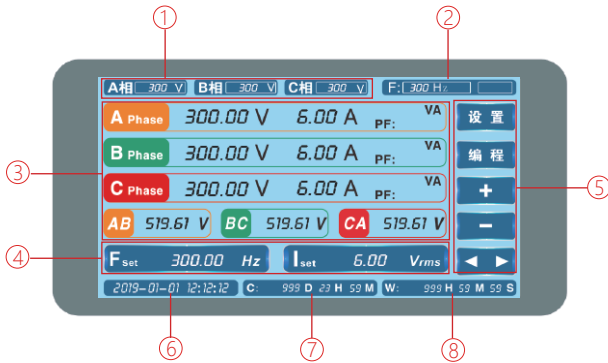
Front Panel & Rear Panel



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

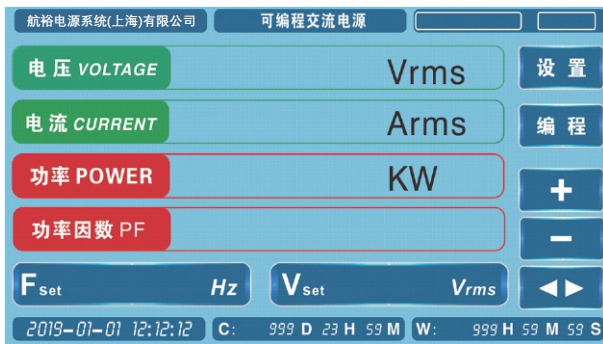
Display And Control Panel

Display Interface



- ① Three-phase voltage
- ② Product frequency
- ③ Three-phase voltage and current display area
- ④ Frequency/voltage setting value
- ⑤ Function setting area
- ⑥ Current time
- ⑦ Cumulative running time
- ⑧ This running time

Display Interface

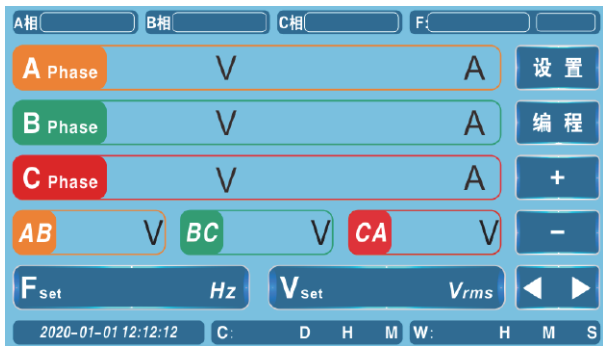


Main interface of single-phase power supply



Main interface of the dual phase power supply

Panel
10

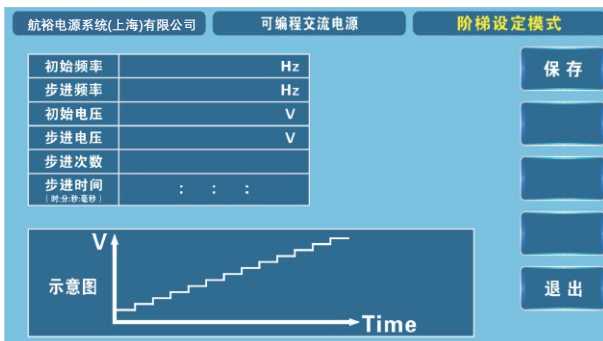


Main interface of three-phase power supply

航裕电源系统(上海)有限公司 可编程交流电源 步阶设定模式

步号	频率 (Hz)	电压 (V)	运行时间 (H:M:S.mS)	起始步
			: : :	起始步
			: : :	结束步
			: : :	循环次数
			: : :	保存
			: : :	退出
			: : :	上一页
			: : :	下一页

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



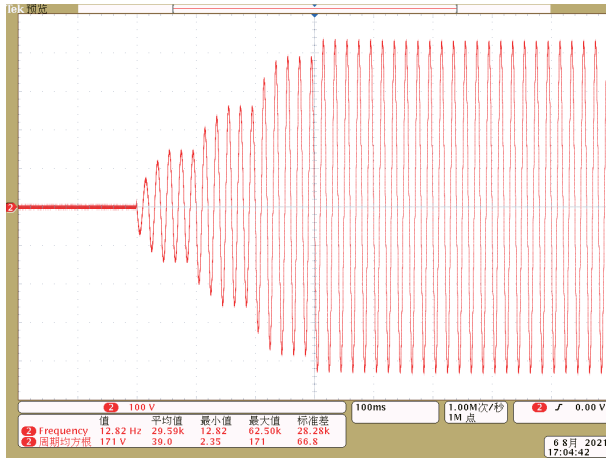
Step setting page can set the required initial frequency, Step frequency, initial voltage, step voltage, step number and step time

航裕电源系统(上海)有限公司 可编程交流电源 渐变设定模式

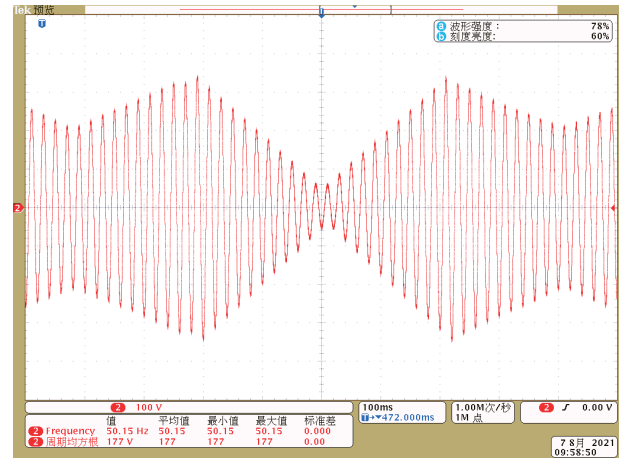
步号	频率 (Hz)	电压 (V)	运行时间 (时:分:秒:毫秒)	起始步
起			: : :	起始步
止			: : :	结束步
起			: : :	循环次数
止			: : :	保存
起			: : :	退出
止			: : :	上一页
起			: : :	下一页

The gradient Settings page can set the required voltage and frequency Run time, initial step, end step

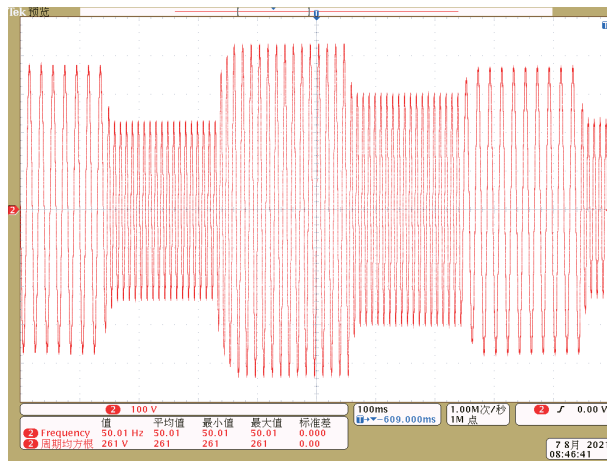
Output Voltage Waveform Of Single-phase Power Supply



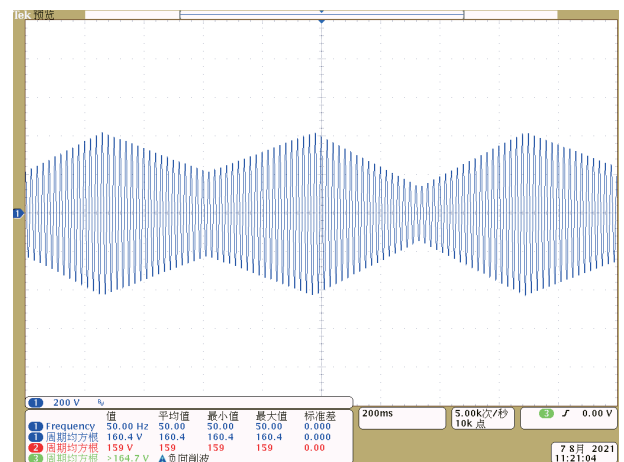
Step



Step

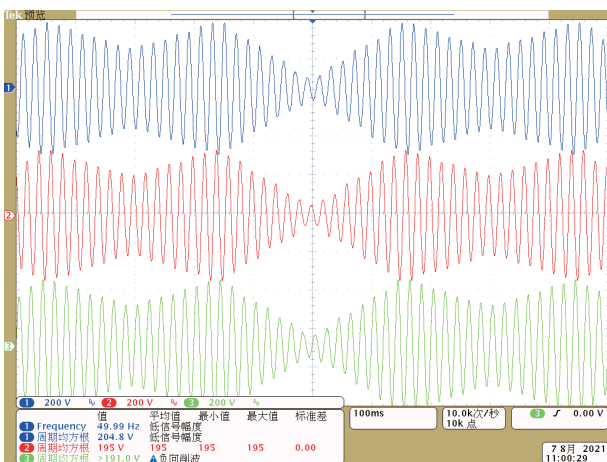


Ladder

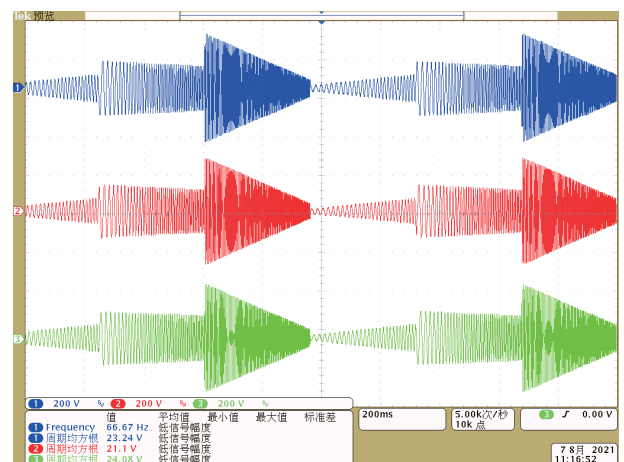


Gradation

Output Voltage Waveform Of Three-phase Power Supply



Three-phase step



Three-phase gradient

Cooperative Customers (Part)

Aerospace & Defense Military Research Institute



China Aerospace



Aerospace science and engineering



Aviation industry



China Air Development



China Electrical Engineering Group



China Shipbuilding Corporation



China Shipbuilding Industry Corporation

CASC 803 (Shanghai Aerospace Control Technology Institute)
 CASC 800 (Shanghai Aerospace Precision Machinery Research Institute)
 CASC 804 (Shanghai Aerospace Electronic Communication Equipment Research Institute)
 CASC 805 (Shanghai Aerospace System Engineering Institute)
 CASC 808 (Shanghai Precision Measurement and Testing Institute)
 CASC 811 (Shanghai Space Power Research Institute)
 CASC 812 (Shanghai Satellite Equipment Research Institute)
 CASC 801 (Shanghai Space Propulsion Research Institute)
 CASC 502 (Beijing Control Engineering Research Institute)
 CASC 510 (Lanzhou Institute of Space Technology Physics)
 CASIC 206 (Beijing Machinery and Equipment Research Institute)
 CASIC 304 Institute (Beijing Great Wall Institute of Measurement and Testing Technology)
 CASIC 307 Factory (Aerospace Chengguang Co., LTD.)
 33 CASIC (33 Aerospace Science and Industry Institutes)
 CASIC 3651 Factory (Guizhou Aerospace Linquan Motor Co., LTD.)
 AVIC 615 (Aeronautical Radio Electronics Research Institute of China)
 AVIC 618 (Xi 'an Flight Automatic Control Research Institute)
 AVIC 105 Factory (Tianjin Aviation Electromechanical Co., LTD.)
 AVIC 115 Factory (Shaanxi Aero Electric Co., LTD.)

AVIC 118 Factory (Shanghai Aviation Electric Appliance Co., LTD.)
 AVIC 181 Factory (Wuhan Aviation Instrument Co., LTD.)
 AVIC 607 Institute (China Leihua Electronic Technology 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 Institute of Electronic Communication)
 CETC 38 Institute (East China Institute of Electronic Engineering)
 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 Marine Instruments)
 CSIC 719 Institute (Wuhan Second Ship Design Institute)
 CSIC 704 Institute (Shanghai Marine Equipment Research Institute)
 CSIC 726 Institute (Shanghai Marine Electronic Equipment Research Institute)
 Jiangnan Shipbuilding (Group) Co., LTD
 Nanjing Panda Electronics Co., LTD
 State-owned 741 Factory (Nanjing Huadong Electronics Group Co., LTD.)

Chinese People's Liberation Army

South Sea Fleet
 East China Sea Fleet
 North Sea Fleet
 Navy Plant 701 / Plant 702
 4724 Factory (Shanghai Haiying Machinery Factory)
 Unit 95861 (Empty Base 1)

Commercial Aviation



Commercial Aircraft Corporation of China



Collins Aerospace

Rockwell Collins



Guangzhou Aircraft Maintenance Engineering Co., LTD



Beijing Aircraft Maintenance Engineering Co., LTD

Client

12

Scientific Research & Third Party Quality Inspection Agency



中国科学院
CHINESE ACADEMY OF SCIENCES

Technical Institute of Physics and Chemistry (Beijing)
 Institute of Urban Environment (Xiamen)
 Electrotechnical Research Institute (Beijing)
 Institute of Applied Physics (Shanghai)



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



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



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



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



杭州市质量技术监督检测院

Cooperative Customers (Part)

Military Academies & 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 Aeronautical University



Beijing University of Aeronautics and Astronautics



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



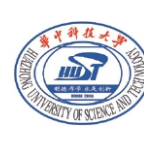
Shanghai Jiao Tong University



Zhejiang University



Tianjin University



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North China Electric Power University



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Hangyu Power AC Power Supply Product Manual, version 06.00, february 2024

The warranty period of all standard products in this manual is three years, except non-standard products

All technical data and instructions are based on the actual product

If there is any change, Hangyu Power has the final interpretation right

Authorized distributor:

