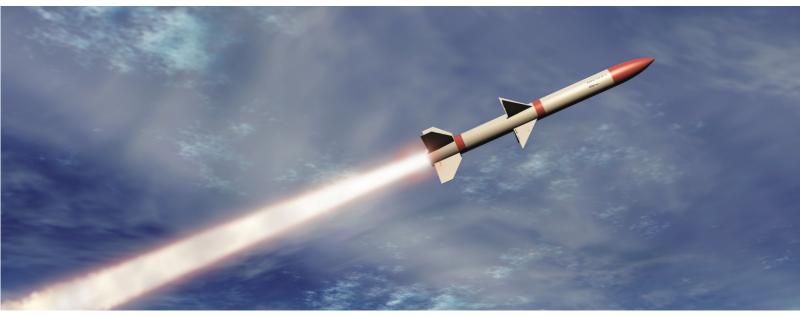
HY-GT Series

Gyroscope Test Power Source (Compass Power Supply)

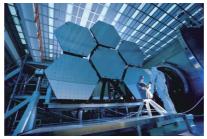


Hangyu Power System (Shanghai) Co., Ltd.















HY-GT Series Gyroscope Test Power Source (Compass Power Supply)

High Purity, High Precision, High Reliability

Product Features

- Output frequency range 300Hz-1500Hz, optional 300Hz-5000Hz, set resolution 0.01Hz
- Output capacity range 100VA 3000VA
- Output voltage AC 0-60Vrms, set resolution 0.01V
- Output phase difference dual phase 90 °/three-phase 120 °
- Output waveform sine wave, optional square wave output
- Linear power technology, low ripple noise, high stability, and no high-frequency interference
- Supports front panel programming without the need for upper computer software control
- Power output soft start function
- 16 bits D/A High precision converter with precise output
- 16 bits A/D High precision converter for more accurate read back
- Multiple protection functions OVP / OCP / OTP
- 19 Inch standard rack size or floor mounted cabinet
- 7-Inch large LCD display screen
- Touch screen operation&number key input
- Multistage shuttle adjustment knob
- Output ON/OFF button
- Intelligent speed control design for fans to reduce noise
- Front/side air inlet, rear air outlet, saving heat dissipation space
- Supports Modbus protocol
- Standard interface: RS-485&RS-232
- Purchasing interface: LAN&CAN

USB

GPIB

Analog programming and monitoring (isolated type)



Application Field

- Guidance system gyroscope testing
- Rotating transformer
- Gyro motor
- Scientific research





HY-GT Series Product Selection Table

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

HY-GT Series Gyroscope Test Power Source (Compass Power Supply)						
Frequency	300-1500Hz (Optional: 300-5000Hz)					
Voltage	0-30Vrms (Optional: 0-60Vrms)					
Wave form	Sine wave (A) , Square wave (B)					
Biphasic	100VA	200VA	400VA	600VA	1000VA	2000VA
Three-phase	150VA	300VA	600VA	900VA	1500VA	3000VA

Product Model Naming Rules Product series Input phase Output phase number HY-GT 100 Α Series Name 1: Input single-phase 2: Output biphasic Output capacity Wave form 3: Input three-phase 3: Output three-phase 100VA A:Sine wave B:Square wave

Selection examples: Model: HY-GT 12100-A

Input single-phase, output two-phase, output capacity 100VA, sine wave.

HY-GT Series Technical Parameter

AC Output			
Connection	Single phase two wire or three-phase four wire+ground wire		
Frequency setting range	Standard: 300-500Hz, Optional: 300-5000Hz		
Input adjustment rate	≤0.5%F.S.		
Load regulation	≤0.5%F.S.		
Waveform distortion (THD)	Sine wave, THD<0.6% (Test when the output is greater than 20% resistive load)		
phase difference	The three-phase voltage is independently adjustable, with a phase difference of 0-359.9 adjustable.		
Output waveform	Sine wave, optional square wave		
Programming And Read Back Accu	racy & Resolution		
Voltage output programming accura	cy ≤0.5%F.S., Optional ≤0.1%		
Frequency output programming acc	racy ±0.01%F.S.		
Voltage setting resolution	0.01V		
Frequency setting resolution	0.01Hz		
Voltage output readback accuracy	±0.5%F.S.		
Current output readback accuracy	±0.5%F.S.		
Voltage read back resolution	0.01V		
Current read back resolution	0.0001A (≤ 6A); 0.001A (≤ 60A); 0.01A (> 650A); 0.1A (> 650A)		
Protection Function			
Overload capacity	125% current for 15 seconds, 150% current for 5 seconds, 200% current for 2 seconds, 300% current immediately stops		
Protection function	Overvoltage, overcurrent, internal overheating, short circuit		
Ambient Condition			
Environment	Indoor use; Installation overvoltage level: II; Pollution level: P2; Class II equipment		
Ambient temperature	0°C to 45°C; -20°C to 55°C; choose -40°C to 55°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, both sides/front air inlet, rear air outlet		
Noise	≤ 65dB(A), Weighted measurement using 1m		

HY-GT Series Ordering Information

Control Panel			
Monitor	7-Inch, LCD Display, touch screen		
Display item	Line voltage/phase voltage (set value&measured value), current measurement value Frequency setting value, working time, cumulative working time, current time and date		
Control function	Number button 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		
Communication Interface			
Standard configuration	RS-485 & RS-232		
Choose	LAN、CAN、USB、GPIB, Analog programming and monitoring interface (isolated type)		
Appearance Color & Size			
Colour	RAL 7035		
Size	4U, Standard 19 inch rack mounted or desktop (with fixed foot pads); 10U, Standard 19 inch rack mounted or floor mounted (with movable universal casters and brake		

Purchasing Interface		Purchasing Function		
- LAN	LAN Communication interface	- HR	High resolution/precision	
- CAN	CAN Communication interface	- T2	Operation temperature -20°C to 55°C	
- USB	USB Communication interface	- T4	Operation temperature -40°C to 55°C	
- GPIB	GPIB Communication interface	- CF	User defined functions (please specify when ordering)	
- APM	Analog programming and monitoring interface (isolated type)	- MR	Measurement report (issued by a third party certified by CNAS)	

^{*}The equipment operates continuously for more than 30 minutes at the specified operating temperature Only then can all technical indicators be guaranteed.

Appearance & Size

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







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

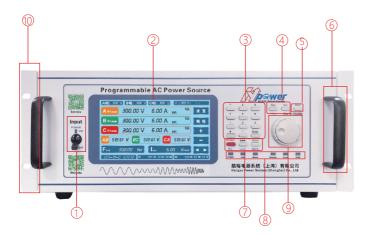






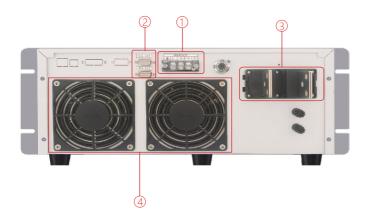
Display And Control Panel

Control Panel



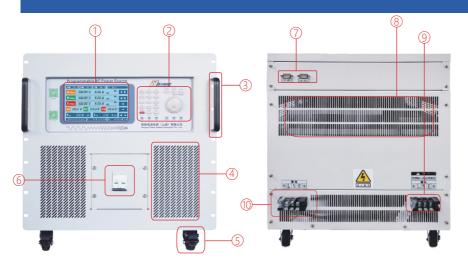
- 1 Power input circuit breaker
- 2 LCD display (7 inches, touch screen)
- 3 Numeric input keyboard
- Frequency/voltage or current setting key 4
- (5) Shift function reuse key
- 6 Case handle
- 7 Lock Locks, confirms Enter, and exits Esc Local Local or Reset Restarts Output ON/OFF Switch
- Status light
- Multistage shuttle adjustment knob (inner ring fine adjustment/outer ring coarse adjustment)
- 19-inch standard rack mounting holes

Rear Panel



- Ac input terminal
- RS-485 & RS-232 communication interface
- Ac output terminal 3
- Heat dissipation outlet

Front Panel & Rear Panel



- ① LCD display (7 ", touch screen)
- Control area 2
- ③ 19-inch standard rack handle
- 4 Heat dissipation inlet
- ⑤ Casters
- Power input circuit breaker
- ⑦ Communication interface
- 8 Heat dissipation outlet
- AC input terminals
- 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
- This running time

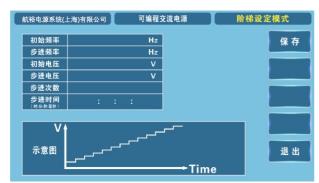
Display Interface



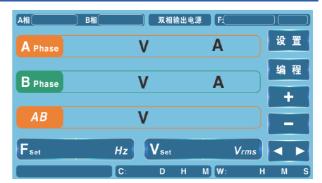
Main interface of single-phase power supply



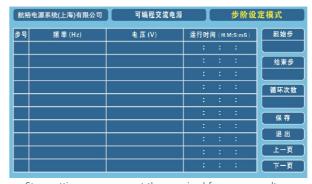
Main interface of three-phase power supply



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



Main interface of the dual phase power supply

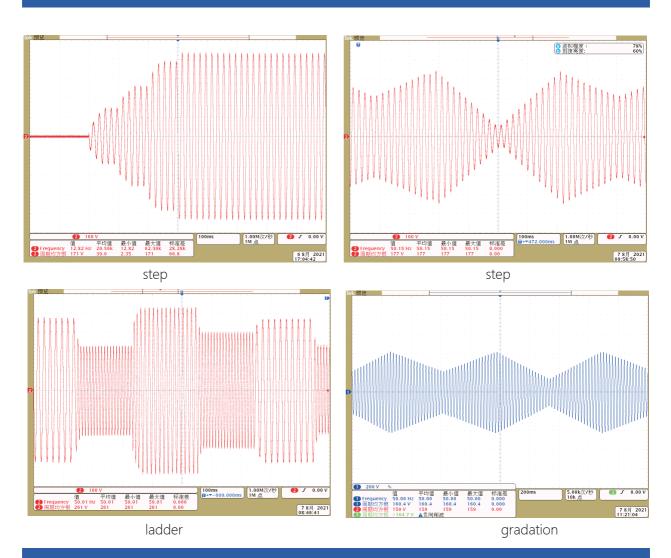


Step setting page can set the required frequency, voltage, Run time, initial step, end step, and number of cycles

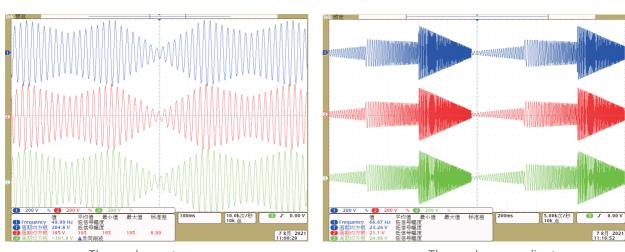
航裕电源系统(上海)有限公司					定模式
步号	频 率 (Hz)		电压(V)	运行时间(时:分:秒:毫秒)	起始步
	起			: : :	
	止				结束步
	起			: : :	
	止				循环次数
	起			: : :	
	止				保存
	起			: : :	
	止				退出
	起			: : :	上一页
	止				下一页

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



Output Voltage Waveform Of Three-phase Power Supply



Cooperative Customers (Part)

Aerospace & Defense Military Research Lnstitute















China Aerospace

Aerospace science and engineering

Aviation industry

China Air Development

China Electrical

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 Chenguang 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.)

Engineering Group

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 (Naniing 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

Rockwell Collins





Guangzhou Aircraft Maintenance Engineering Co., LTD

Beijing Aircraft Maintenance Engineering Co., LTD

Scientific Research & Third Party Quality Inspection Agency



Technical Institute of Physics and Chemistry (Beijing) Institute of Urban Environment (Xiamen)

Electrotechnical Research Institute (Beijing)

Institute of Applied Physics (Shanghai)







SEARI

上海電器科學研究所(集团)有限公司



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







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 Science and Technology



Nanjing University of



Polytechnical University



University of Science and Technology of China



Tsinghua University



Peking University.



Shanghai Jiao Tong



Zhejiang University





Tianjin University Hust (Huazhong University of Science and Technology)



Hust (Huazhong University North China Electric of Science and Technology)



Power University



Beijing University of Technology



Zhejiang University of Technology



Xi 'an University of Technology



Dalian Maritime University



South China University of Technology

High-tech R&D Enterprise



Huawei



Xiamen fara



Panasonio



Encos



Teko



Weidmuller



Honeywell



China Railway Rolling Stock Corporation



Siemens



ABB



Schneider



The Chint Noyak



Xiamen Hongfa



People's electric apparatus











南瑞集团公司



Power integrations™

Bosch power tools

Gree Electric Appliances

Guilin rubber machinery factory



Guodian Nanrui



INVENTCHIP

Shanghai Zhanxin



Chenxin Technology

American PI



China Automotive

Research Institute



群並微电子 Group core Microelectronics

NICHINXIN



Hangzhou Zhongsi



Fexide

Saic Motor Corporation



Saic Volkswagen



Geely Automobile



Ula

Heavy duty Automobile Research

and Development Corporation



BMW Brilliance



Honaai Automobile









Read core Technology Willing to create science a

Shanghai Tongmin vehicle

Nind era

Chinese Express

United New Energy



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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 $% \left(1\right) =\left(1\right) \left(1\right)$

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

Authorized distributor: