

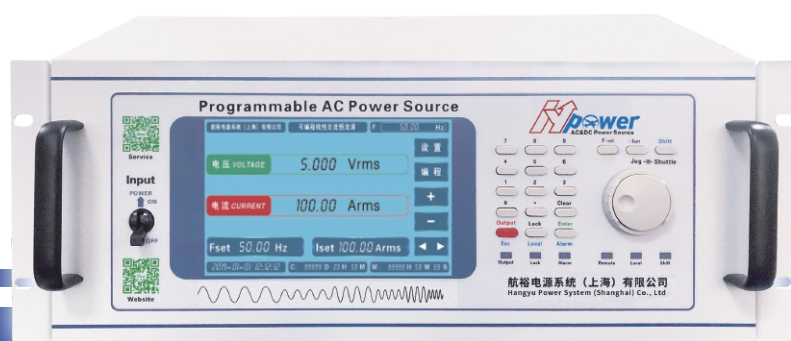


Hangyu Power System (Shanghai) Co., Ltd.

HY-LCSSU Series

Programmable Linear AC Constant Current Source

Military Quality Power Supply Expert



HY-LCSSU Series Programmable Linear AC Constant Current Source



Product Features

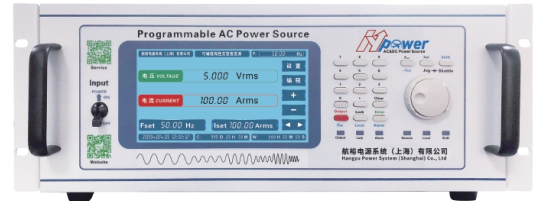
- Output frequency range 45Hz-70Hz, Optional range 45Hz-1kHz
- Output capacity range 300VA-30kVA
- Output current range 0.1A-10000A
- Open circuit voltage 2.5V/5V/10V/20V/36V/48V
- Linear power technology, low ripple, low noise, ultra-low distortion rate
- Support front panel programming, without upper computer software control
- It has the function of slow rise and slow fall of current
- Power output soft start function
- 16-bit D/A high precision converter for accurate output
- 16-bit A/D high precision converter, more accurate read back
- Multiple protection functions Overtemperature, open circuit protection
- 19 inch standard rack size
- 7-inch ultra large LCD display screen
- Touch screen operation & digital key input
- Multi-stage 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
- Front/side air in, rear air out, saving heat dissipation space
- Support modbus protocol
- Standard interface: RS-485&RS-232
- Choose buy interface: LAN&CAN

GPIO

Analog quantity programming and monitoring

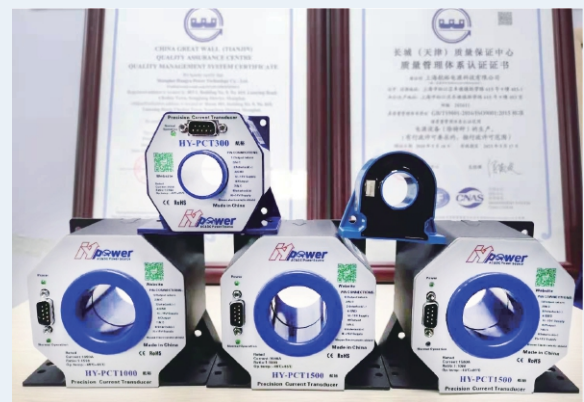
(Isolation type)

Waveform Pure, High Precision, High Reliability



Application Field

- Current sensor
- Current transformer
- Cable line
- Wire harness
- Connector
- Circuit breaker
- Contactor
- Low voltage appliance



LCSSU

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HY-LCSSU Series Product Selection Table

Product Model Naming Rules (Single-Phase)

Product Series	Open Circuit Voltage		Output Current
HY-LCSSU	10	-	100
Series name	Open circuit voltage 10V		The output current 1A-100A
Selection examples: Product model: HY-LCSSU 10-100 Open circuit voltage 10V, output current 1A-100A			

Product Model Naming Rules (Three-Phase)

Product Series	Three Phase Output		Open-Circuit Voltage		Output Current
HY-SCSSU	3P	-	10	-	100
Series name	Three-phase output		Open circuit voltage 10V		The output current 1A-100A
Selection examples: Product model: HY-LCSSU 3P-10-100 Three-phase output, open circuit voltage 10V, output current 1A-100A					

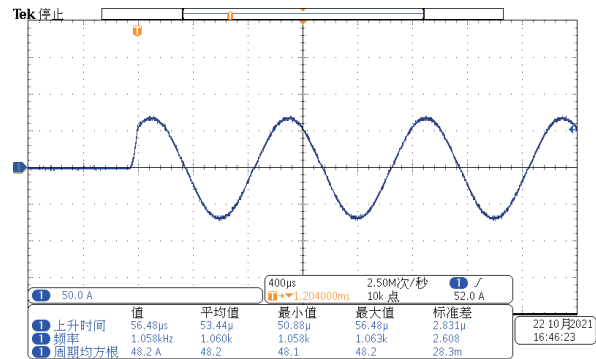
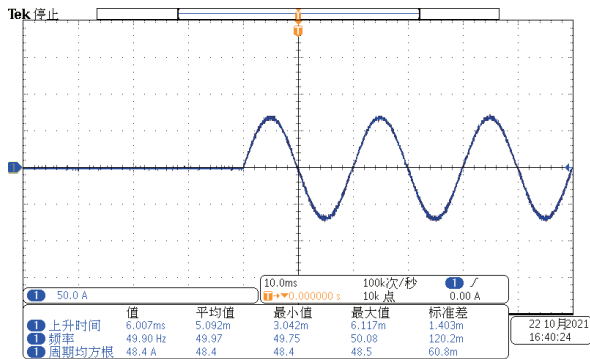
In the selection table, special specifications outside the voltage/ frequency/output capacity range are accepted for customization

HY-LCSSU Series Programmable Linear AC Constant Current Source				
Product Model	Maximum Output Current (Arms)	Maximum Open Circuit Voltage (L-N,Vrms)	Output Capacity (Single Phase/Three Phase)	Output Frequency (Hz)
HY-LCSSU	100A	2.5V 5V 10V 20V 36V 48V Multiple gears optional	300VA 500VA 1kVA 2kVA 3kVA 5kVA 10kVA 15kVA 30kVA Multiple gears optional	45-70Hz 45-400Hz (≤10 kVA) 320-480Hz 45-1000Hz Multiple gears optional
HY-LCSSU	150A			
HY-LCSSU	200A			
HY-LCSSU	250A			
HY-LCSSU	300A			
HY-LCSSU	400A			
HY-LCSSU	600A			
HY-LCSSU	1000A			
HY-LCSSU	1200A			
HY-LCSSU	1500A			
HY-LCSSU	2000A			
HY-LCSSU	5000A			
HY-LCSSU	10000A			

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

HY-LCSSU Series Technical Parameters

The Actual Measurement Diagram Of the Current Rise Time Of Some Constant Current Sources Is As Follows: The Current Rise Response Time Is Less Than Or Equal To 10ms, Which Can Meet The Testing Requirements Of Low-Voltage Electrical Appliances Within 10ms Of Instantaneous Testing.



AC Output

Working mode	Constant current mode (CC Mode)
Output capacity	Optional range 300VA-30kVA
Output current	0.1A-100A/150A/200A/250A/300A/400A/600A/1000A/1200A/1500A/2000A/5000A/10000A
Output current range can be set	0.5%-100%
Open-circuit voltage	L-N 2.5V/5V/10V/20V/36V/48V (Acceptable customization)
Output frequency	45Hz-70Hz/45-400Hz/320-480Hz/45Hz-1000Hz (Four gears available) (Acceptable customization)
Frequency stabilization accuracy	100ppm
Input adjustment rate	≤0.5%F.S. (Note: F.S. meaning full scale)
Waveform distortion (THD)	Sinusoidal wave, I-THD≤1%, resistance test * According to 400Hz, test when the output voltage is more than 50% of the rated voltage
	Different current models have different distortion rates
Current rise time (customize)	Less than 10ms time constant, to meet the needs of low-voltage electrical instantaneous testing

Programming And Readback Accuracy & Resolution

Current output programming accuracy	0.5%F.S., 0.1%F.S.selectable
Current setting resolution	0.01A (≤600A), 0.1A (>600A)
Frequency setting resolution	0.01Hz
Current output read back accuracy	0.5%F.S., 0.1%F.S.selectable
Current read back resolution	0.01A (≤600A), 0.1A (>600A)

Protection Function

Open circuit protection	If the open circuit voltage limit is exceeded, the output is turned off immediately
Overtemperature protects OTP	If the limit is exceeded, the output is immediately turned off

LCSSU

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HY-LCSSU Series Technical Parameters

Environmental Condition

Environment	Indoor use; Installation overvoltage class: II; Pollution level: P2; Class II equipment
Operating ambient temperature	0°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 12,000 meters
Cooling	Forced air cooling, intelligent speed regulating fan, front/side air inlet, rear air outlet
Noise	≤ 65dB(A), use 1m to weigh the measurement

Control Panel

Display	7 inches, LCD LCD display, touch screen
Display item	Current (set value and measured value), voltage measurement value, frequency set value, working time, cumulative working time, current time and date
Control function	Digital key input, multi-stage adjustment knob(outer ring coarse adjustment/inner ring fine adjustment) Output ON/OFF switch, Lock keyboard and touch lock, Reset restart Status indicator (Shift/Local/Remote/Alarm/Lock/Output)
Programming function	Step/ladder/gradient

Communication Interface

Standard configuration	RS-485 & RS-232
Choose and buy	LAN, CAN, GPIB, Analog quantity programming and monitoring (Isolation type)

Appearance Color & Size

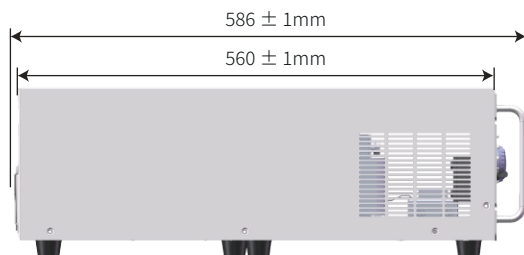
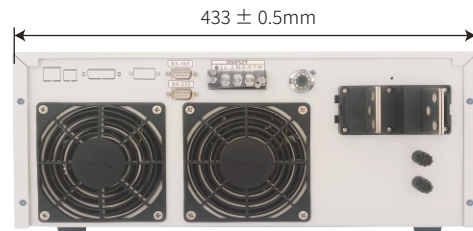
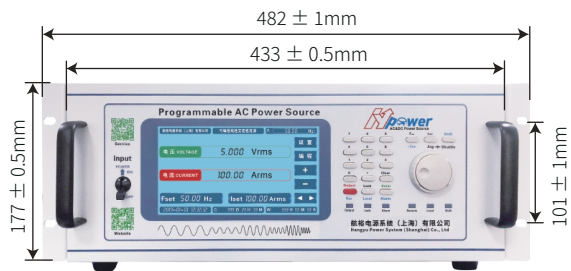
Colour	RAL 7035
Size	4U, standard 19-inch rack mount, or desktop (fixed foot mat); 10U, standard 19-inch rack type, or floor type (with movable universal casters and brakes); 18U and above, floor type cabinets, with movable universal casters and brakes.

LCSSU

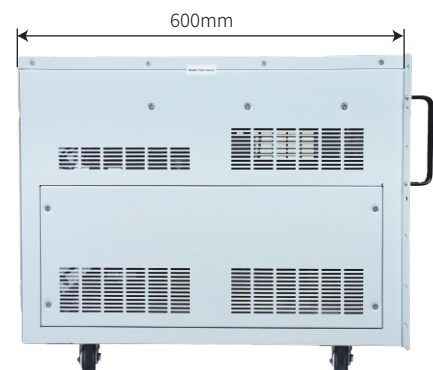
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Appearance & Size

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



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



Size

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Appearance & Size

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



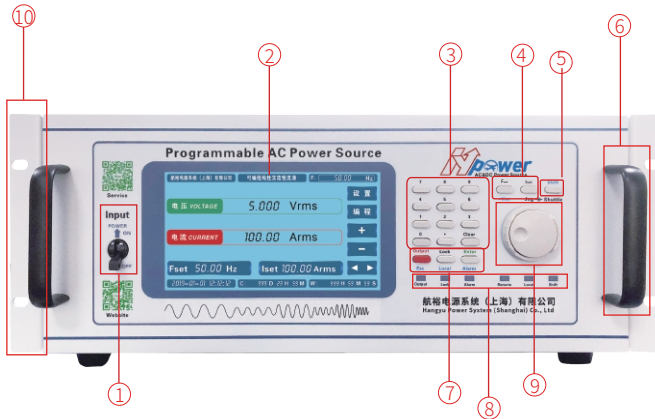
24U 600(W)*800(D)*1190(H)mm
30U 600(W)*800(D)*1453(H)mm
36U 600(W)*800(D)*1718(H)mm



Size

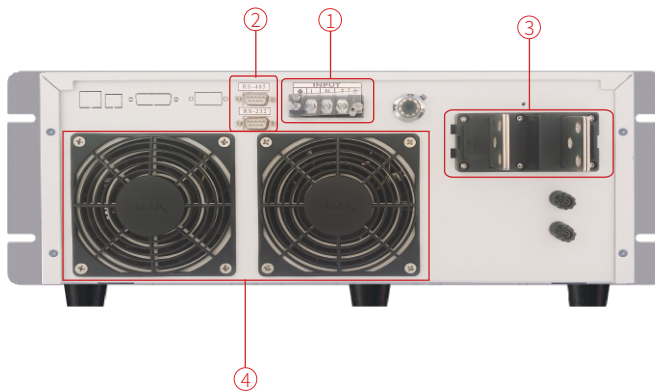
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Control Panel



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

Rear Panel

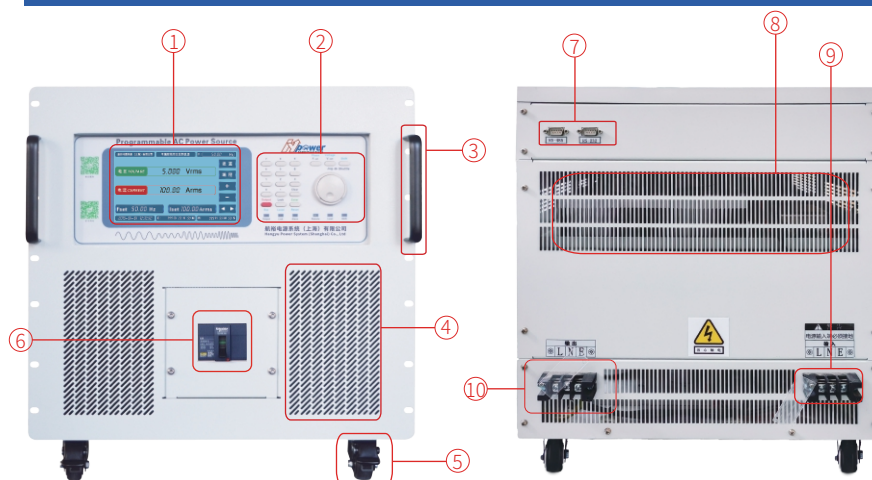


- ① AC input terminal
- ② RS-485 & RS-232 communication interface
- ③ AC output copper bar
- ④ Heat dissipation air inlet

Size

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Front Panel & Rear Panel



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



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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:

