



HY-UHSSU series Ultra-high stable magnet power supply

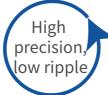
Various grades of high stability magnet power supplies for high temperature/low temperature superconducting magnet coils and conventional magnet coils can be provided, as well as fully customized parameters and functional requirements.

HY-UHSSU series Ultra-high stable magnet power supply

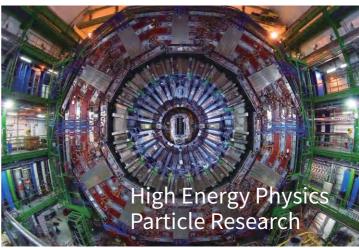
HY-UHSSU series ultra-high stability magnet power supply has the characteristics of ultra-high stability, low ripple, high precision, etc. It has voltage and current control modes, continuous and stable power supply, and builds ultra-high stability magnetic field, which can help clear MRI imaging. Restore medical images and provide professional and accurate testing solutions for medical applications and high-energy physics. Additionally, high power density coupled with high accuracy and low ripple characteristics make the combined solution ideal for ATE calibration applications.











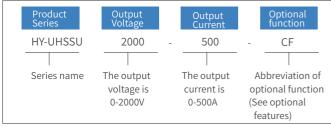
Hangyu HY-UHSSU series ultra-high stable magnet power supply is mainly used in the field of radiation medicine and high-energy physical particle research. In order to realize that the magnetic field generated by the magnet coil is sufficiently stable, the current stability and accuracy of the magnet power supply that provides power to the coil are particularly important.

Hangyu Power Supply provides fully customized high-precision magnet power supplies, including various grades of high-stable power supplies for high-temperature/low-temperature superconducting magnet power supplies, conventional magnets and magnetic material testing.

The customized magnet power supply covers the following indicators:

- Application type: conventional magnets, low temperature superconductivity, high temperature superconductivity, magnetic material testing
- Current range: 0.1A -50000A optional
- Voltage range: 0 1500V optional
- Power range: 1KW -1000KW optional
- Time stability: 5ppm, 10ppm, 50ppm, 100ppm long-term stability optional
- 16 bits D/A high precision converter, accurate output (optional 18 bits, 20bits)
- 20 bits A/D high precision converter, more accurate read back
- Temperature stability: different according to "air cooling" and "water cooling"
- Power supply polarity: unipolar, bipolar (polarity can be switched), bipolar four-quadrant

Product Model Naming Rules



Selection example:

Product model: HY-UHS 2000-500-CF Output voltage 0-2000V, output current 0-500A, optional user-defined functions.

Optional interface (users can install it by themselves)

- IL CAN & USB Communication Interface
- IG GPIB Communication Interface
- IA Analog programming and monitoring interface (isolated)
- LAN Ethernet communication interface

Optional function

- SP Tep / Stair / Gradient Sequence programming function
- NCH N stands for number, CH stands for channel
- PN Positive and negative switching
- CP Constant power function
- ABD Anti-backflow diode
- BD Anti-reverse diode
- TVS Transient suppression diodes
- AT Built-in ISO 16750-2 test standard (some waveforms)
- PS Power absorption (supported on some models, installed at the factory)
- HS High-speed transition function (installed at the factory)
- HR High Resolution / High Accuracy
- TP Three-phase input, AC 380 V (5kW / 2U)
- T1 Operating temperature -10°C to 50°C
- T2 Operating temperature -20°C to 50°C
- T4 Operating 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)

Selection table

■ In the selection table, special specifications outside the range of voltage/current/power can be customized

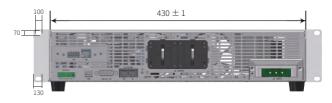
| | Output Power (W) & Output current (A) | | | | | | |
|-------------------|---------------------------------------|--------|--------|-------|---------------|-------|-------|
| Output voltage | 3U | | 2U | | | | |
| | 15kW | 10kW | 5kW | 3600W | 2500W | 1600W | 1000W |
| 1500V | 10A | 6.7A | 3.3A | 2.4A | 1.7A | 1.1A | 0.7A |
| 1200V | 12.5A | 8.3A | 4.2A | 3A | 2A | 1.3A | 0.8A |
| 1000V | 15A | 10A | 5A | 3.6A | 2.5A | 1.6A | 1A |
| 800V | 18.8A | 12.5A | 6.3A | 4.5A | 3. 1 A | 2A | 1.3A |
| 600V | 25A | 16.7A | 8.3A | 6A | 4.2A | 2.7A | 1.7A |
| 500V | 30A | 20A | 10A | 7.2A | 5A | 3.2A | 2A |
| 400V | 37.5A | 25A | 12.5A | 9A | 6.3A | 4A | 2.5A |
| 350V | 43A | 28.6A | 14.3A | 10.3A | 7A | 4.6A | 3A |
| 300V | 50A | 33A | 16.7A | 12A | 8.3A | 5.3A | 3.3A |
| 250V | 60A | 40A | 20A | 14.4A | 10A | 6.4A | 4A |
| 200V | 75A | 50A | 25A | 18A | 12.5A | 8A | 5A |
| 150V | 100A | 66.7A | 33.3A | 24A | 16.7A | 10.7A | 6.7A |
| 100V | 150A | 100A | 50A | 36A | 25A | 16A | 10A |
| 80V | 187.5A | 125A | 62.5A | 45A | 31A | 20A | 12.5A |
| 60V | 250A | 166.7A | 83A | 60A | 41.7A | 26.7A | 16.7A |
| 40V | 375A | 250A | 125A | 90A | 62.5A | 40A | 25A |
| 30V | 500A | 333A | 166.7A | 120A | 83A | 53A | 33A |
| 20V | 750A | 500A | 250A | 180A | 125A | 80A | 50A |
| 10V | | 1000A | 500A | 360A | 250A | 160A | 100A |

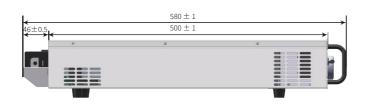
| Chaldita O Tana | | | | |
|---|--|--|--|--|
| Stability & Temperature Coefficient | 11 0 0 10 / 10 0 10 / (0 h a see first and a s | | | |
| Temperature Drift (Rated Output Voltage/Current) | U: 0.01% I: 0.01% (8 hours after turning on the power supply for 30 minutes at a certain input voltag and load ambient temperature) | | | |
| Temperature Coefficient (Rated Output Voltage/Current) | U: 50ppm/°C I: 70ppm/°C (30 minutes after turning on the power) | | | |
| Programming and Readback Accuracy | & Resolution | | | |
| Voltage Output Programming Accuracy | 0.05% of rated output voltage, measured at telemetry point | | | |
| Current Output Programming Accuracy | 0.1% of output current + 0.1% of rated output current | | | |
| Voltage Setting Resolution | 0.01V (≤600 V), 0.1V (>600 V) | | | |
| Current Setting Resolution | 0.01A (≤600 A), 0.1A (>600 A) | | | |
| Voltage Output Readback Accuracy | 0.05% of rated output voltage | | | |
| Current Output Readback Accuracy | 0.3% of rated output current | | | |
| Voltage Readback Resolution | $0.001\mathrm{V}(\leqslant 100\mathrm{V}), 0.01\mathrm{V}(100\mathrm{V} < \mathrm{U} \leqslant 1000\mathrm{V}), 0.1\mathrm{V}(>1000\mathrm{V})$ | | | |
| Current Readback Resolution | 0.001 A (≤ 100 A), 0.01 A (100 A < I ≤ 1000 A) | | | |
| Protective function | | | | |
| OVP set range | 10 - 110%, Immediate shutdown of the output when the limit value is exceeded | | | |
| OCP set range | 0 - 105%, Immediate shutdown of the output when the limit value is exceeded | | | |
| OTP set range | Immediate shutdown of the output when the limit value is exceeded | | | |
| Environmental conditions | | | | |
| Environmental | Indoor use; installation overvoltage class: II; pollution class: P2; class II equipment | | | |
| Working temperature | 0°C to 50°C, optional -10°C to 50°C, -20°C to 50°C, -40°C to 50°C | | | |
| Storage ambient 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 2000 meters above sea level, the power is reduced by 2% for every 100 meters, or the maximum working environment temperature is reduced by 1°C every 100 meters; When not operating, up to 12,000 meters above sea level | | | |
| Cooling | Forced air cooling, intelligent speed-adjustable fan, air intake from both sides, and air out from the rear | | | |
| Noise | ≤ 65dB(A), Use 1 m to weight measurements | | | |
| Control panel | | | | |
| Display | 4" / 7", LCD, touch screen | | | |
| Control function | Digital key input, multi-level shuttle knob adjustment (coarse adjustment of outer ring/fine adjustment inner ring), output ON / OFF switch, Lock keyboard and touch lock, Reset Reboot Status Indicator (Shift / Local / Remote / Alarm / Lock / Output) | | | |
| Input power | | | | |
| Frequency | 47 Hz - 63 Hz | | | |
| Wiring | Single-phase two-wire + ground wire, 220 V \pm 15% (-ST standard configuration model) | | | |
| Power Factor (Typical) | 0.99 (-ST) 0.94 (-TP) | | | |

Appearance & size

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

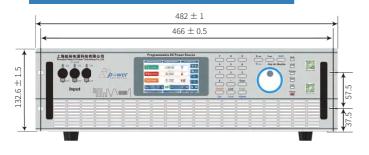








3U 450(W) * 610(D) * 133(H) mm











Official wechat:hypower-cn



Contact us

Hangyu Power System (Shanghai) Co., Ltd.

Mobile/Whatsapp:+8613801800699

Fax:+86-21-67285228-8009

Email:sales@hangyupower.com

neo@hangyupower.com

 ${\it Address: Block B, Building 11, No.\ 1698\ Minyi\ Road, Songjiang\ District, Shanghai}$

Web:www.hangyupower.com

*Hangyu Power System, 2024
Programmable DC Power Supply Product Catalog, version 08.00, April 2024
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: