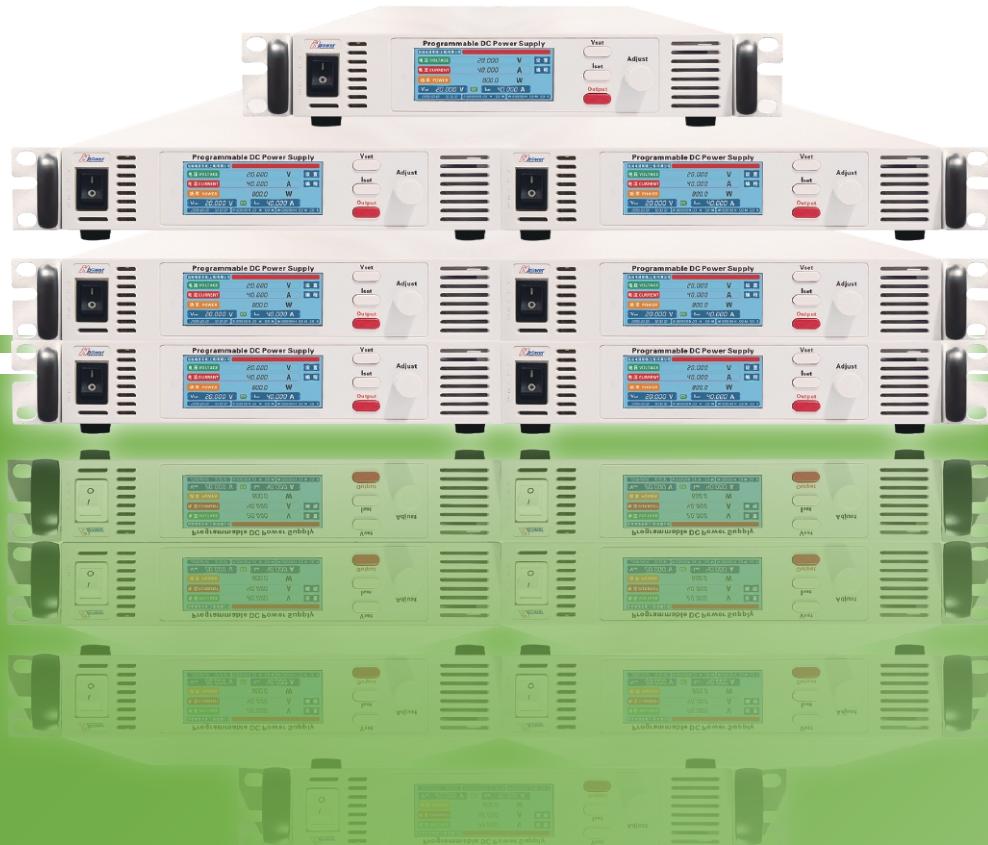




Hangyu Power System (Shanghai) Co., Ltd.

HY-GSU Series

1U Half-Width Ultra-Thin Programmable DC Power Supply



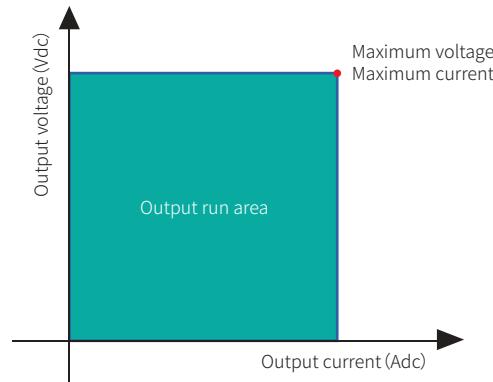
Portable High Reliability

Military quality power supply expert
To provide customers with accurate, intelligent and convenient test power supply solutions



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HY-GSU Series 1U Half-Width Ultra-Thin Programmable DC Power Supply



Ultra-small size: 214(W)*457.5(D)*43.7(H)mm, can be installed in parallel in a 19-inch frame.

Product Features

- Two in series operation, 4 master-slave parallel operation
- Power density: 200W/400W/600W/800W
- Wide input voltage range: 85~265VAC
- Input standard PFC, power factor up to 0.99
- 16-bit D/A high precision converter, accurate output
- 20-bit A/D high precision converter, more accurate read back

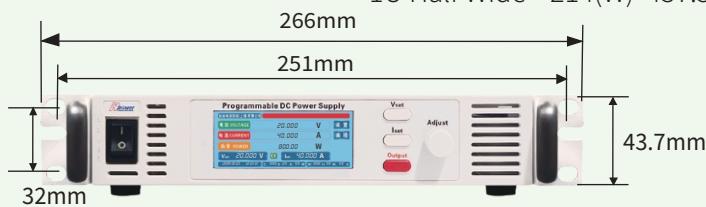
Application Field

HY-GSU series power supply, through the series parallel form, more free parameter choice can be obtained, a wide range of applications, very suitable for integrated systems, in the military and intelligent manufacturing field is widely popular.

- Stable power supply
- Integration testing
- Military industry
- Medical treatment

Product Display

1U Half Wide 214(W)*457.5(D)*43.7(H)mm



HY-GSU Series Product Selection Table

Product Model Naming Rules

| Product Series | Output Voltage | Output Current | Communication Protocol | Standard Communication Interface | Optional Communication Interface |
|--------------------------------------------|----------------|----------------|------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HY-GSU | 10 | - 20 | Modbus SCPI | RS-485 RS-232 Digital I/O | - LAN :Ethernet communication interface - CAN :CAN communication interface - IA :Analog quantity programming and monitoring interface (isolated type) |
| Selection examples: | | | | | |
| Product model: HY-GSU 10-20 | | | | | |
| Output voltage 0-10V, output current 0-20A | | | | | |

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

HY-GSU Series Product Model Selection And Parameters

Special specifications outside the voltage/current/power range in the selection table can be customized.

| 200W Series Power Supply Model Selection | | | | 400W Series Power Supply Model Selection | | | |
|------------------------------------------|----------------|----------------|--------------|------------------------------------------|----------------|----------------|--------------|
| Models | Output Voltage | Output Current | Output Power | Models | Output Voltage | Output Current | Output Power |
| HY-GSU 10-20 | 10V | 20A | 200W | HY-GSU 10-40 | 10V | 40A | 400W |
| HY-GSU 20-10 | 20V | 10A | 200W | HY-GSU 20-20 | 20V | 20A | 400W |
| HY-GSU 36-6 | 36V | 6A | 216W | HY-GSU 36-12 | 36V | 12A | 432W |
| HY-GSU 60-3.5 | 60V | 3.5A | 210W | HY-GSU 60-7 | 60V | 7A | 420W |
| HY-GSU 100-2 | 100V | 2A | 200W | HY-GSU 100-4 | 100V | 4A | 400W |
| HY-GSU 160-1.3 | 160V | 1.3A | 208W | HY-GSU 160-2.6 | 160V | 2.6A | 416W |
| HY-GSU 320-0.65 | 320V | 0.65A | 208W | HY-GSU 320-1.3 | 320V | 1.3A | 416W |
| HY-GSU 650-0.32 | 650V | 0.32A | 208W | HY-GSU 650-0.64 | 650V | 0.64A | 416W |

| 600W Series Power Supply Model Selection | | | | 800W Series Power Supply Model Selection | | | |
|------------------------------------------|----------------|----------------|--------------|------------------------------------------|----------------|----------------|--------------|
| Models | Output Voltage | Output Current | Output Power | Models | Output Voltage | Output Current | Output Power |
| HY-GSU 10-60 | 10V | 60A | 600W | HY-GSU 10-72 | 10V | 72A | 720W |
| HY-GSU 20-30 | 20V | 30A | 600W | HY-GSU 20-40 | 20V | 40A | 800W |
| HY-GSU 36-18 | 36V | 18A | 648W | HY-GSU 36-24 | 36V | 24A | 864W |
| HY-GSU 60-10 | 60V | 10A | 600W | HY-GSU 60-14 | 60V | 14A | 840W |
| HY-GSU 100-6 | 100V | 6A | 600W | HY-GSU 100-8 | 100V | 8A | 800W |
| HY-GSU 160-4 | 160V | 4A | 640W | HY-GSU 160-5 | 160V | 5A | 800W |
| HY-GSU 320-2 | 320V | 2A | 640W | HY-GSU 320-2.5 | 320V | 2.5A | 800W |
| HY-GSU 650-1 | 650V | 1A | 650W | HY-GSU 375-2.2 | 375V | 2.2A | 825W |
| | | | | HY-GSU 650-1.25 | 650V | 1.25A | 812.5W |

HY-GSU Series Technical Parameters

DC 200W Low Voltage Output Series Technical Parameters

| Models | | HY-GSU 10-20 | HY-GSU 20-10 | HY-GSU 36-6 | HY-GSU 60-3.5 | HY-GSU 100-2 |
|--------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|---------------|--------------|
| Rated Output Voltage | V | 10 | 20 | 36 | 60 | 100 |
| Rated Output Current | A | 20 | 10 | 6 | 3.5 | 2 |
| Rated Output Power | W | 200 | 200 | 216 | 210 | 200 |
| Efficiency | % | 77.5 | 79 | 80.5 | 80.5 | 81 |
| Constant Voltage Mode (CV Mode) | | | | | | |
| Output Range Can Be Set | V | 0- Rated output value | | | | |
| Line Regulation Rate | mV | 0.01% +2mV of rated output voltage | | | | |
| Load Regulation Rate | mV | 0.01% +2mV of rated output voltage | | | | |
| Maximum Compensation Voltage For Telemetry | V | 1 | 1 | 2 | 3 | 5 |
| Ripple Effective Value rms (5Hz -1MHz) | mVrms | 5 | 6 | 6 | 7 | 8 |
| Noise Peak-To-Peak Value p-p (20MHz) | mVpp | 50 | 50 | 50 | 50 | 80 |
| Output Voltage Rise Time 10-90% | ms | 15 | 30 | 30 | 50 | 50 |
| Output Voltage Drop Time (Full Load)90-10% | ms | 12 | 25 | 30 | 40 | 50 |
| Output Voltage Drop Time (No Load) | ms | 210 | 250 | 320 | 380 | 1200 |
| Transient Response Time | ms | The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value. Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms | | | | |
| Constant Current Mode (CC Mode) | | | | | | |
| Output Range Can Be Set | A | 0- Rated output value | | | | |
| Line Regulation Rate | mA | 0.01% +2mA of the rated output current | | | | |
| Load Regulation Rate | mA | 0.02% +5mA of the rated output current | | | | |
| Ripple Effective Value rms (5Hz -1MHz) | mArms | 25 | 15 | 8 | 4 | 3 |

DC 400W Low Voltage Output Series Technical Parameters

| Models | | HY-G 10-40 | HY-G 20-20 | HY-G 36-12 | HY-G 60-7 | HY-G 100-4 |
|--------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|-----------|------------|
| Rated Output Voltage | V | 10 | 20 | 36 | 60 | 100 |
| Rated Output Current | A | 40 | 20 | 12 | 7 | 4 |
| Rated Output Power | W | 400 | 400 | 432 | 420 | 400 |
| Efficiency | % | 82 | 83 | 85 | 85 | 86 |
| Constant Voltage Mode (CV Mode) | | | | | | |
| Output Range Can Be Set | V | 0- Rated output value | | | | |
| Line Regulation Rate | mV | 0.01% +2mV of rated output voltage | | | | |
| Load Regulation Rate | mV | 0.01% +2mV of rated output voltage | | | | |
| Maximum Compensation Voltage For Telemetry | V | 1 | 1 | 2 | 3 | 5 |
| Ripple Effective Value rms (5Hz -1MHz) | mVrms | 5 | 6 | 6 | 7 | 8 |
| Noise Peak-To-Peak Value p-p (20MHz) | mVpp | 50 | 50 | 50 | 50 | 80 |
| Output Voltage Rise Time 10-90% | ms | 15 | 30 | 30 | 50 | 50 |
| Output Voltage Drop Time (Full Load)90-10% | ms | 10 | 10 | 15 | 30 | 50 |
| Output Voltage Drop Time (No Load) | ms | 210 | 250 | 320 | 380 | 1200 |
| Transient Response Time | ms | The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value. Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms | | | | |
| Constant Current Mode (CC Mode) | | | | | | |
| Output Range Can Be Set | A | 0- Rated output value | | | | |
| Line Regulation Rate | mA | 0.01% +2mA of the rated output current | | | | |
| Load Regulation Rate | mA | 0.02% +5mA of the rated output current | | | | |
| Ripple Effective Value rms (5Hz -1MHz) | mArms | 70 | 40 | 15 | 8 | 3 |

HY-GSU Series Technical Parameters

| DC 600W Low Voltage Output Series Technical Parameters | | | | | | |
|--------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|
| Models | | HY-GSU 10-60 | HY-GSU 20-30 | HY-GSU 36-18 | HY-GSU 60-10 | HY-GSU 100-6 |
| Rated Output Voltage | V | 10 | 20 | 36 | 60 | 100 |
| Rated Output Current | A | 60 | 30 | 18 | 10 | 6 |
| Rated Output Power | W | 600 | 600 | 648 | 600 | 600 |
| Efficiency | % | 83 | 86 | 87 | 87 | 87 |
| Constant Voltage Mode (CV Mode) | | | | | | |
| Output Range Can Be Set | V | 0- Rated output value | | | | |
| Line Regulation Rate | mV | 0.01% +2mV of rated output voltage | | | | |
| Load Regulation Rate | mV | 0.01% +2mV of rated output voltage | | | | |
| Maximum Compensation Voltage For Telemetry | V | 1 | 1 | 2 | 3 | 5 |
| Ripple Effective Value rms (5Hz -1MHz) | mVrms | 5 | 5 | 5 | 12 | 15 |
| Noise Peak-To-Peak Value p-p (20MHz) | mVpp | 50 | 50 | 50 | 50 | 80 |
| Output Voltage Rise Time 10-90% | ms | 50 | 50 | 50 | 50 | 100 |
| Output Voltage Drop Time (Full Load)90-10% | ms | 25 | 25 | 25 | 25 | 80 |
| Output Voltage Drop Time (No Load) | ms | 285 | 425 | 450 | 570 | 1370 |
| Transient Response Time | ms | The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value. Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms | | | | |
| Constant Current Mode (CC Mode) | | | | | | |
| Output Range Can Be Set | A | 0- Rated output value | | | | |
| Line Regulation Rate | mA | 0.01% +2mA of the rated output current | | | | |
| Load Regulation Rate | mA | 0.01% +5mA of the rated output current | | | | |
| Ripple Effective Value rms (5Hz -1MHz) | mArms | 150 | 75 | 25 | 8 | 5 |
| DC 800W Low Voltage Output Series Technical Parameters | | | | | | |
| Models | | HY-G 10-72 | HY-G 20-40 | HY-G 36-24 | HY-G 60-14 | HY-G 100-8 |
| Rated Output Voltage | V | 10 | 20 | 36 | 60 | 100 |
| Rated Output Current | A | 72 | 40 | 24 | 14 | 8 |
| Rated Output Power | W | 720 | 800 | 864 | 840 | 800 |
| Efficiency | % | 83 | 86 | 87 | 87 | 87 |
| Constant Voltage Mode (CV Mode) | | | | | | |
| Output Range Can Be Set | V | 0- Rated output value | | | | |
| Line Regulation Rate | mV | 0.01% +2mV of rated output voltage | | | | |
| Load Regulation Rate | mV | 0.01% +2mV of rated output voltage | | | | |
| Maximum Compensation Voltage For Telemetry | V | 1 | 1 | 2 | 3 | 5 |
| Ripple Effective Value rms (5Hz -1MHz) | mVrms | 5 | 5 | 5 | 12 | 15 |
| Noise Peak-To-Peak Value p-p (20MHz) | mVpp | 50 | 50 | 50 | 60 | 80 |
| Output Voltage Rise Time 10-90% | ms | 50 | 50 | 50 | 50 | 100 |
| Output Voltage Drop Time (Full Load)90-10% | ms | 25 | 25 | 25 | 25 | 80 |
| Output Voltage Drop Time (No Load) | ms | 285 | 425 | 450 | 570 | 1370 |
| Transient Response Time | ms | The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value. Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms | | | | |
| Constant Current Mode (CC Mode) | | | | | | |
| Output Range Can Be Set | A | 0- Rated output value | | | | |
| Line Regulation Rate | mA | 0.01% +2mA of the rated output current | | | | |
| Load Regulation Rate | mA | 0.02% +5mA of the rated output current | | | | |
| Ripple Effective Value rms (5Hz -1MHz) | mArms | 180 | 100 | 31 | 28 | 12 |

HY-GSU Series Technical Parameters

| DC 200W High Voltage Output Series Technical Parameters | | | | |
|---------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| Models | | HY-GSU 160-1.3 | HY-GSU 320-0.65 | HY-GSU 650-0.32 |
| Rated Output Voltage | V | 160 | 320 | 650 |
| Rated Output Current | A | 1.3 | 0.66 | 0.32 |
| Rated Output Power | W | | 208W | |
| Efficiency | % | 81 | 81 | 81 |
| Constant Voltage Mode (CV Mode) | | | | |
| Output Range Can Be Set | V | 0- Rated output value | | |
| Line Regulation Rate | mV | 0.01% of the rated output voltage | | |
| Load Regulation Rate | mV | 0.01% of the rated output voltage | | |
| Maximum Compensation Voltage For Telemetry | V | 5 | 5 | 5 |
| Ripple Effective Value rms (5Hz-1MHz) | mVrms | 10 | 25 | 60 |
| Noise Peak-To-Peak Value p-p (20MHz) | mVpp | 100 | 10 | 250 |
| Output Voltage Rise Time 10-90% | ms | 110 | 170 | 170 |
| Output Voltage Drop Time (Full Load)90-10% | ms | 180 | 270 | 270 |
| Output Voltage Drop Time (No Load) | ms | 2 | 2.5 | 3 |
| Transient Response Time | ms | The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value. Output voltage setting range: 10-100%, local sampling. <2ms. | | |
| Constant Current Mode (CC Mode) | | | | |
| Output Range Can Be Set | A | 0- Rated output value | | |
| Line Regulation Rate | mA | 0.02% of the rated output current | | |
| Load Regulation Rate | mA | 0.09% of the rated output current | | |
| Ripple Effective Value rms (5Hz -1MHz) | mArms | 1.2 | 0.8 | 0.5 |
| DC 400W High Voltage Output Series Technical Parameters | | | | |
| Models | | HY-G 160-2.6 | HY-G 320-1.3 | HY-G 650-0.64 |
| Rated Output Voltage | V | 160 | 320 | 650 |
| Rated Output Current | A | 2.6 | 1.3 | 0.64 |
| Rated Output Power | W | 416 | 416 | 416 |
| Efficiency | % | 86 | 86 | 86 |
| Constant Voltage Mode (CV Mode) | | | | |
| Output Range Can Be Set | V | 0- Rated output value | | |
| Line Regulation Rate | mV | 0.01% of the rated output voltage | | |
| Load Regulation Rate | mV | 0.01% of the rated output voltage | | |
| Maximum Compensation Voltage For Telemetry | V | 5 | 5 | 5 |
| Ripple Effective Value rms (5Hz-1MHz) | mVrms | 10 | 25 | 60 |
| Noise Peak-To-Peak Value p-p (20MHz) | mVpp | 100 | 150 | 250 |
| Output Voltage Rise Time 10-90% | ms | 80 | 150 | 150 |
| Output Voltage Drop Time (Full Load)90-10% | ms | 100 | 150 | 150 |
| Output Voltage Drop Time (No Load) | ms | 2 | 2.5 | 3 |
| Transient Response Time | ms | The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value. Output voltage setting range: 10-100%, local sampling. <2ms. | | |
| Constant Current Mode (CC Mode) | | | | |
| Output Range Can Be Set | A | 0- Rated output value | | |
| Line Regulation Rate | mA | 0.02% of the rated output current | | |
| Load Regulation Rate | mA | 0.09% of the rated output current | | |
| Ripple Effective Value rms (5Hz -1MHz) | mArms | 1.5 | 1 | 0.6 |

HY-GSU Series Technical Parameters

DC 600W High Voltage Output Series Technical Parameters

| Models | | HY-GSU 160-4 | HY-GSU 320-2 | HY-GSU 650-1 |
|--------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Rated Output Voltage | V | 160 | 320 | 650 |
| Rated Output Current | A | 4 | 2 | 1 |
| Rated Output Power | W | 640 | 640 | 650 |
| Efficiency | % | 88.5 | 88.5 | 88.5 |
| Constant Voltage Mode (CV Mode) | | | | |
| Output Range Can Be Set | V | 0- Rated output value | | |
| Line Regulation Rate | mV | 0.01% of the rated output voltage | | |
| Load Regulation Rate | mV | 0.01% of the rated output voltage | | |
| Maximum Compensation Voltage For Telemetry | V | 5 | 5 | 5 |
| Ripple Effective Value rms (5Hz -1MHz) | mVrms | 10 | 30 | 60 |
| Noise Peak-To-Peak Value p-p (20MHz) | mVpp | 100 | 150 | 250 |
| Output Voltage Rise Time 10-90% | ms | 55 | 75 | 75 |
| Output Voltage Drop Time (Full Load)90-10% | ms | 65 | 85 | 85 |
| Output Voltage Drop Time (No Load) | ms | 2 | 2.5 | 3 |
| Transient Response Time | ms | The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value. Output voltage setting range: 10-100%, local sampling. <2ms. | | |
| Constant Current Mode (CC Mode) | | | | |
| Output Range Can Be Set | A | 0- Rated output value | | |
| Line Regulation Rate | mA | 0.02% of the rated output current | | |
| Load Regulation Rate | mA | 0.09% of the rated output current | | |
| Ripple Effective Value rms (5Hz -1MHz) | mArms | 2 | 1.5 | 1 |

DC 800W High Voltage Output Series Technical Parameters

| Models | | HY-G 160-5 | HY-G 320-2.5 | HY-G 375-2.2 | HY-G 650-1.25 |
|--------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|---------------|
| Rated Output Voltage | V | 160 | 320 | 375 | 650 |
| Rated Output Current | A | 4.7-5 | 2.35-2.5 | 2-2.2 | 1.15-1.25 |
| Rated Output Power | W | 752-800 | 752-800 | 750-825 | 747.5-812.5 |
| Efficiency | % | 88.5 | 89 | 89.5 | 89 |
| Constant Voltage Mode (CV Mode) | | | | | |
| Output Range Can Be Set | V | 0- Rated output value | | | |
| Line Regulation Rate | mV | 0.01% of the rated output voltage | | | |
| Load Regulation Rate | mV | 0.01% of the rated output voltage | | | |
| Maximum Compensation Voltage For Telemetry | V | 5 | 5 | 5 | 5 |
| Ripple Effective Value rms (5Hz -1MHz) | mVrms | 10 | 30 | 30 | 60 |
| Noise Peak-To-Peak Value p-p (20MHz) | mVpp | 100 | 150 | 150 | 250 |
| Output Voltage Rise Time 10-90% | ms | 45 | 55 | 55 | 55 |
| Output Voltage Drop Time (Full Load)90-10% | ms | 55 | 65 | 65 | 65 |
| Output Voltage Drop Time (No Load) | ms | 2 | 2.5 | 2.5 | 3 |
| Transient Response Time | ms | The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value. Output voltage setting range: 10-100%, local sampling. <2ms. | | | |
| Constant Current Mode (CC Mode) | | | | | |
| Output Range Can Be Set | A | 0- Rated output value | | | |
| Line Regulation Rate | mA | 0.02% of the rated output current | | | |
| Load Regulation Rate | mA | 0.09% of the rated output current | | | |
| Ripple Effective Value rms (5Hz -1MHz) | mArms | 2 | 1.5 | 1.5 | 1 |

HY-GSU Series Technical Parameters

Stability And Temperature Coefficient

| | |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Temperature Drift (Rated Output Voltage/Current) | U: 0.01% I: 0.01% (After 30 minutes of power on at a certain input voltage and load ambient temperature, 8 hours) |
| Temperature Coefficient (Rated Output Voltage/Current) | U: 50ppm/°C I: 70ppm/°C (30 minutes after power on) |

Programming And Readback Accuracy & Resolution

| | |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage Output Programming Accuracy | 0.05% of the rated output voltage |
| Current Output Programming Accuracy (10%~100%) ^① | 0.1% of the output current + 0.05% of the rated output current (in constant current programming mode, the readback and monitoring accuracy do not include the influence of heating drift and load temperature change rate) |
| Voltage Setting Resolution | 0.001V (≤60V), 0.01V (≤600V), 0.1V (>600V) |
| Current Setting Resolution | 0.001A (≤60A), 0.01A (≤600A), 0.1A (>600A) |
| Voltage Output Read-Back Accuracy | 0.05% of the rated output voltage |
| Current Output Read-Back Accuracy (10%~100%) ^① | 0.1% of the output current + 0.05% of the rated output current (in constant current programming mode, the readback and monitoring accuracy do not include the influence of heating drift and load temperature change rate) |
| Voltage Read Back Resolution | 0.00001V (≤10V), 0.0001V (≤100V), 0.001V (100V < U ≤1000V), 0.01V (>1000V) |
| Current Read Back Resolution | 0.00001A (≤10A), 0.0001A (≤100A), 0.001A (100A < I ≤1000A) |

Note:

① When the current output is within the range of 1% to 10%, the accuracy is 0.1% RD + 0.1% RG.

Protection Function

| | |
|------------------------------------------|--------------------------------------------------|
| OVP Overvoltage Protection Setting Range | 10-110%, beyond the limit output immediately off |
| OPC Overcurrent Protection Setting Range | 0-105%, beyond the limit output immediately off |
| OTP Overtemperature Protection | Beyond the limit output immediately off |
| OPP Overpower Protection | 10-110%, beyond the limit output immediately off |

Environmental Condition

| | |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment | Indoor use; Installation overvoltage class: II; Pollution level: P2; Class II equipment |
| Operating Ambient Temperature | 0°C to 50°C |
| Storage Ambient Temperature | -20°C to 65°C |
| Working Ambient Humidity | 20%-90% RH, no dew formation, continuous operation |
| Storage Environment Humidity | 10% - 95% RH, no dew formation |
| Altitude Above Sea Level | Above 2000 meters above sea level, every 100 meters up, the power will be reduced by 2%, or reduce the maximum working ambient temperature by 1°C per 100 meters; When not in operation, the altitude can reach 12,000 meters |
| Cooling | Forced air cooling, intelligent speed regulating fan, front/side air inlet, rear air outlet |
| Noise | ≤ 65dB(A), use 1m to weighted measurement |

Appearance & Size

Control Panel

| | |
|----------------------|------------------------------------------------------------------|
| Display | LCD display |
| Control Function | Adjustment knob, Output ON/OFF switch Vset, Iset, Output keys |
| Programming Function | Step, Ladder, Gradient |

Input Power Supply

| | |
|------------------------------|--------------------------------------------------------------------------|
| Frequency | 47Hz - 63Hz |
| Connection Mode | Single-phase two-wire + ground wire, wide input voltage range: 85~265VAC |
| Power Factor (Typical Value) | 0.99(Single-Phase Input) |

Size And Weight

| | |
|--------|-----------------------------------------------|
| Size | 1U Half Wide Model: 214(W)*457.5(D)*43.7(H)mm |
| Weight | About 3kg |
| Colour | RAL 7035 |

Front Panel



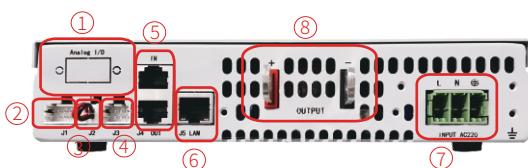
① Power switch
 ② Air vent
 ③ Liquid crystal display screen
 ④ Voltage/current setting key
 ⑤ Adjustment knob
 ⑥ Air vent
 ⑦ OUTPUT

Liquid Crystal Display Screen



① Voltage/current/power read back display area
 ② Voltage/current setting value
 ③ Current time/Accumulated running time/This run time
 ④ CV/CC state
 ⑤ Setting function
 ⑥ Programming function

Rear Panel



① Communication port (Digital I/O)
 ② Analog control and monitoring interface
 ③ Telemetry interface
 ④ Isolation control and signal interface
 ⑤ RS232/RS485 communication port
 ⑥ Select configuration communication interface
 ⑦ Input port
 ⑧ Positive and negative copper bar output ports

HY-GSU Series Product Rack Kits

Product Rack Kits And Their Numbers, As Well As Descriptions Of Optional Accessories

HY-GSU series power supplies can be installed in **parallel** (such as **Rack Kits 1 and 2**) or **stacked** (such as **Rack Kit 3**) to meet the flexibility of system integration requirements and power density needs.

Notes:

***Parallel installation** meets the system integration requirements of standard cabinets, enabling the power supply to fit into a standard 19-inch rack without increasing its height;

***Stacked installation** is suitable for benchtop applications, maintaining the advantages of small size and minimal floor space. With handles for easy carrying, the power supply offers more flexible and lightweight operation during experiments.

■ Single power supply installation, select **Rack kit1: HY-GSU-CP 001**

1.A single HY-GSU series power supply can be installed in a standard 19-inch rack with a height of 1U (43.7mm).

2.The kit includes: Chassis and Connecting plate

*Chassis: Used to fill the empty space in the 19-inch rack.

*Connecting plate: Used to connect and fix the HY-GSU series power supply to the chassis.



■ Two power supplies for parallel installation, select **Rack kit2: HY-GSU-CP 002**

1.Two HY-GSU series power supplies can be installed side by side in a standard 19-inch rack with a height of 1U (43.7mm).

2.The kit includes: Connecting plate

*Connecting plate: Used to connect and fix two HY-GSU series power supplies.



■ For stacking installation of two power supplies, select **Rack kit3: HY-GSU-CP 003**

1.Benchtop stacking kit for vertical stacking of two HY-GSU series power supplies.

2.The kit includes: Chassis, Handle, Front Output Interface

*Chassis: Fixes the position of the power supplies.

*Handle: Enables single-handed portability for easy movement.

*Front Output Interface: Allows direct connection of output cables when using the power supplies on a workbench, eliminating the need to flip the units repeatedly.





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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:

