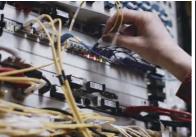


HY-ZSU series

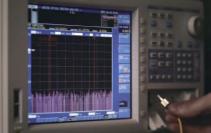
Portable Programmable DC Power Supply

Military Quality Power Supply Expert















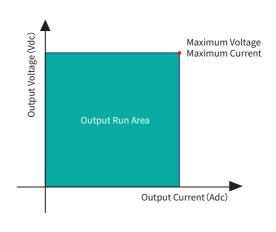




HY-ZSU Series Portable Programmable DC Power Supply







Product Features

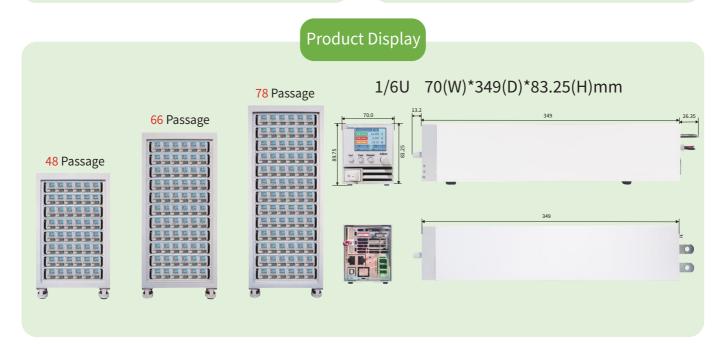
The volume of this power supply is only 2U high and 1/6U wide, flexible and convenient, can be any combination, 2 sets in series, 2-6 sets of master-slave parallel, multi-channel test, intelligent and fast.

- A single machine for one channel, each channel is suitable for series or parallel
- Power density: 200W/400W/600W/800W
- Wide input voltage range: 85~265VAC
- Input standard PFC, power factor up to 0.99
- 16 bits D/A high precision converter, accurate output
- 20 bits A/D high precision converter, more accurate read back

Application Field

HY-ZSU series power supply, through the series parallel form, can obtain more freedom of parameter selection, a wide range of applications, very suitable for integrated systems, in the military and intelligent manufacturing field is widely popular.

- Stable power supply integration test
- Military industry
- Medical Care
- Power semiconductor



Product Model Naming Rules

| Product series | Output voltage | Output current | Optional function |
|---------------------|------------------------------|--------------------------|-------------------|
| HY-ZSU | 10 - | 40 | - CF |
| | | | |
| Product model: HY- | -ZSU 10-40-CF | | |
| The model informa | tion is: Output voltage 0-10 | OV, output current 0-40A | |
| Custom features the | at users choose to purchas | se | |

| Communication protocol | Standard communication interface | Optional communication interface |
|------------------------|----------------------------------|---|
| Modbus SCPI | RS-485 RS-232 Digital I/O | - LAN :Ethernet communicationinterface - CAN :CAN communication interface - GPIB :GPIB communication interface - IA :Analog quantity programming and monitoring interface |
| | | (isolated type) |

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

HY-ZSU 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 selection | | | | | | | |
|---|----------------|----------------|--------------|--|--|--|--|
| Models | Output voltage | Output current | Output power | | | | |
| HY-ZSU 10-20 | 10V | 20A | 200W | | | | |
| HY-ZSU 20-10 | 20V | 10A | 200W | | | | |
| HY-ZSU 36-6 | 36V | 6A | 216W | | | | |
| HY-ZSU 60-3.5 | 60V | 3.5A | 210W | | | | |
| HY-ZSU 100-2 | 100V | 2A | 200W | | | | |
| HY-ZSU 160-1.3 | 160V | 1.3A | 208W | | | | |
| HY-ZSU 320-0.65 | 320V | 0.65A | 208W | | | | |
| HY-ZSU 650-0.32 | 650V | 0.32A | 208W | | | | |

| 400W Series Power supply selection | | | | | | | |
|------------------------------------|----------------|----------------|--------------|--|--|--|--|
| Models | Output voltage | Output current | Output power | | | | |
| HY-ZSU 10-40 | 10V | 40A | 400W | | | | |
| HY-ZSU 20-20 | 20V | 20A | 400W | | | | |
| HY-ZSU 36-12 | 36V | 12A | 432W | | | | |
| HY-ZSU 60-7 | 60V | 7A | 420W | | | | |
| HY-ZSU 100-4 | 100V | 4A | 400W | | | | |
| HY-ZSU 160-2.6 | 160V | 2.6A | 416W | | | | |
| HY-ZSU 320-1.3 | 320V | 1.3A | 416W | | | | |
| HY-ZSU 650-0.64 | 650V | 0.64A | 416W | | | | |

| 600W Series Power supply selection | | | | | | | |
|------------------------------------|----------------|----------------|--------------|--|--|--|--|
| Models | Output voltage | Output current | Output power | | | | |
| HY-ZSU 10-60 | 10V | 60A | 600W | | | | |
| HY-ZSU 20-30 | 20V | 30A | 600W | | | | |
| HY-ZSU 36-18 | 36V | 18A | 648W | | | | |
| HY-ZSU 60-10 | 60V | 10A | 600W | | | | |
| HY-ZSU 100-6 | 100V | 6A | 600W | | | | |
| HY-ZSU 160-4 | 160V | 4A | 640W | | | | |
| HY-ZSU 320-2 | 320V | 2A | 640W | | | | |
| HY-ZSU 650-1 | 650V | 1A | 650W | | | | |

| 800W Series Power supply selection | | | | | | | |
|------------------------------------|----------------|----------------|--------------|--|--|--|--|
| Models | Output voltage | Output current | Output power | | | | |
| HY-ZSU 10-72 | 10V | 72A | 720W | | | | |
| HY-ZSU 20-40 | 20V | 40A | 800W | | | | |
| HY-ZSU 36-24 | 36V | 24A | 864W | | | | |
| HY-ZSU 60-14 | 60V | 14A | 840W | | | | |
| HY-ZSU 100-8 | 100V | 8A | 800W | | | | |
| HY-ZSU 160-5 | 160V | 5A | 800W | | | | |
| HY-ZSU 320-2.5 | 320V | 2.5A | 800W | | | | |
| HY-ZSU 375-2.2 | 375V | 2.2A | 825W | | | | |
| HY-ZSU 650-1.25 | 650V | 1.25A | 812.5W | | | | |

| DC 200W Low Voltage Or | atput 3 | crico recimiea | | | | |
|---|---|---|--|---|---|--|
| Models | | HY-ZSU 10-20 | HY-ZSU 20-10 | HY-ZSU 36-6 | HY-ZSU 60-3.5 | HY-ZSU 100-2 |
| Rated Output Voltage | V | 10 | 20 | 36 | 60 | 100 |
| Rated Output Current | А | 20 | 10 | 6 | 3.5 | 2 |
| Rated Output Power | W | 200W | 200W | 216W | 210W | 200W |
| Efficiency | % | 77.5 | 79 | 80.5 | 80.5 | 81 |
| Constant Pressure Mode (CV Mode) | ' | | | | | |
| Output Range Can Be Set | V | | 0- Rated C | Output Value | | |
| Input Adjustment Rate | mV | | 0.01% +2mV of rat | ed output voltage | | |
| Load Adjustment Rate | mV | | 0.01% +2mV of rat | ed 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 (20 MHz) | mVpp | 50 | 50 | 50 | 50 | 80 |
| Output Voltage Rise Time10-90% Output Voltage Drop Time | ms | 15 | 30 | 35 | 50 | 50 |
| (Full Load)90-10% | ms | 20 | 20 | 50 | 40 | 50 |
| Output Voltage Drop Time (No Load) | ms | 435 | 100 | 615 | 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 | А | 0- Rated Output Value | | | | |
| Input Adjustment Rate | mA | | 0.01% +2mA of the r | ated output current | | |
| Load Adjustment Rate | mA | | 0.02% +5mA of the r | ated output current | | |
| Ripple Effective Value rms (5Hz -1MHz) | mArms | 25 | 15 | 8 | 4 | 3 |
| Stability And Temperature Coefficient | | | | | | |
| Temperature Drift (Rated Output Voltage/Current) | U: 0.019 | % I: 0.01% (After 30 | O minutes of power on | at a certain input volta | age and load ambient | temperature, 8 hours) |
| Temperature Coefficient (Rated Output Voltage/Current) | U: 50pp | m/°C I: 70ppm/°C (30 | minutes after power o | n) | | |
| Programming And Readback Accuracy & | & Resoluti | on | | | | |
| Voltage Output Programming Accuracy | | of the rated output vol | O | | | |
| Current Output Programming Accuracy | 0.1% readba | of the output current ck and monitoring acc | t + 0.05% of the rated of curacy do not include t | output current (in con he influence of heatin | stant current program g drift and load temp | ming mode, the erature change rate) |
| Voltage Setting Resolution | 0.001 V | (≤60 V),0.01 V (≤600 | V) ,0.1 V (> 600 V) | | | |
| Current Setting Resolution | 0.001 A | (≤60 A),0.01 A (≤600 | A) ,0.1 A (>600 A) | | | |
| Voltage Output Read-Back Accuracy | 0.05% | of the rated output vol | tage | | | |
| Current Output Read-Back Accuracy | 0.1% readba | of the output curren ck and monitoring acc | t + 0.05% of the rated of curacy do not include t | output current (in con the influence of heatin | stant current program ig drift and load temp | ming mode, the erature change rate) |
| Voltage Read Back Display | 0.00001 V (≤ 10 V), 0.0001 V (≤ 100 V), 0.001 V (100 V < U ≤ 1000 V), 0.01 V (>1000 V) | | | | | |
| , , | 0.00001 A (≤ 10 A), 0.0001 A (≤ 100 A), 0.001 A (100 A < I ≤ 1000 A) | | | | | |
| Current Read Back Display | 0.00001 | A (≤ 10 A), 0.0001 A | , ,, , | 00 A < I ≤ 1000 A) | | |
| Current Read Back Display Input Power Supply | 0.00001 | A (≤ 10 A), 0.0001 A | , ,, , | 00 A < I ≤ 1000 A) | | |
| . , | 0.00001 47 Hz - | | , ,, , | 00 A < I ≤ 1000 A) | | |
| Input Power Supply | 47 Hz - | 63 Hz | , ,, , | | | |
| Input Power Supply Frequency | 47 Hz - Single- | 63 Hz | (≤100 A), 0.001 A(1 | | | |
| Input Power Supply Frequency Connection Mode | 47 Hz - Single- | 63 Hz phase two-wire + grou | (≤100 A), 0.001 A(1 | | | |
| Input Power Supply Frequency Connection Mode Power Factor (Typical Value) | 47 Hz - Single- 0.99(Sii | 63 Hz phase two-wire + groungle-Phase Input) | (≤100 A), 0.001 A(1 | e range: 85~265VAC | | |
| Input Power Supply Frequency Connection Mode Power Factor (Typical Value) Size And Weight | 47 Hz - Single- 0.99(Sii | 63 Hz phase two-wire + groungle-Phase Input) | (≤ 100 A), 0.001 A (1 | e range: 85~265VAC | | |

| Models | I | HY-ZSU 10-40 | HY-ZSU 20-20 | HY-ZSU 36-12 | HY-ZSU 60-7 | HY-ZSU 100-4 |
|---|--------------------------|--|--|---|---|---|
| Rated Output Voltage | V | 10 | 20 | 36 | 60 | 100 |
| Rated Output Current | A | 40 | 20 | 12 | 7 | 4 |
| Rated Output Power | W | 400W | 400W | 432W | 420W | 400W |
| Efficiency | % | 82 | 83 | 85 | 85 | 86 |
| Constant Pressure Mode (CV Mode) | Ι | | | | | |
| Output Range Can Be Set | V | | | Output Value | | |
| Input Adjustment Rate | mV | | | ted output voltage | | |
| Load Adjustment 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 | 3 | 6 | 6 | 7 | 8 |
| Noise Peak-To-Peak Value p-p (20 MHz) | mVpp | 50 | 50 | 50 | 50 | 80 |
| Output Voltage Rise Time10-90% | ms | 16 | 30 | 30 | 50 | 50 |
| Output Voltage Drop Time (Full Load)90-10% | ms | 6 | 10 | 15 | 30 | 50 |
| Output Voltage Drop Time (No Load) | ms | 415 | 155 | 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 currer 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 | А | A 0- Rated Output Value | | | | |
| Input Adjustment Rate | mA | | 0.01% +2mA of the r | rated output current | | |
| Load Adjustment Rate | mA | | 0.02% +5mA of the r | rated output current | | |
| Ripple Effective Value rms (5Hz -1MHz) | mArms | 70 | 40 | 15 | 8 | 3 |
| Stability And Temperature Coefficient | | | | | | |
| Temperature Drift (Rated Output Voltage/Current) | U: 0.01 | % I: 0.01% (After 3 | 0 minutes of power on | at a certain input volta | age and load ambient | temperature, 8 hour |
| Temperature Coefficient (Rated Output Voltage/Current) | U: 50pp | om/°C I: 70ppm/°C (30 | minutes after power o | on) | | |
| Programming And Readback Accuracy 8 | & Resoluti | on | | | | |
| Voltage Output Programming Accuracy | 0.05% | of the rated output vo | ltage | | | |
| Current Output Programming Accuracy | | | t + 0.05% of the rated curacy do not include | | | |
| Voltage Setting Resolution | 0.001 V | (≤60 V),0.01 V (≤600 | V) ,0.1 V (> 600 V) | | | |
| Current Setting Resolution | 0.001 A | (≤60 A),0.01 A (≤600 | 0 A) ,0.1 A (>600 A) | | | |
| Voltage Output Read-Back Accuracy | | of the rated output vo | O | | | |
| Current Output Read-Back Accuracy | 0.19 readba | 6 of the output curren ck and monitoring acc | t + 0.05% of the rated curacy do not include | output current (in con the influence of heatir | stant current program ng drift and load temp | nming mode, the erature change rate) |
| Voltage Read Back Display | 0.0000 | l V (≤ 10 V),0.0001 V | (≤ 100 V), 0.001 V (10 | $00 \text{V} < \text{U} \le 1000 \text{V}$), 0.0 | 01 V (>1000 V) | |
| Current Read Back Display | 0.00001 | . A (≤ 10 A), 0.0001 A | (\leq 100 A), 0.001 A (1 | .00 A < I ≤ 1000 A) | | |
| Input Power Supply | | | | | | |
| Frequency | 47 Hz - | 63 Hz | | | | |
| | Single- | phase two-wire + grou | und, wide input voltag | e range: 85~265VAC | | |
| Connection Mode | 0.99(Single-Phase Input) | | | | | |
| Connection Mode Power Factor (Typical Value) | 0.99(Si | ngle-Phase Input) | | | | |
| | 0.99(Si | ngle-Phase Input) | | | | |
| Power Factor (Typical Value) | | | 05(W)*363(D)*90(H)m | ım | | |
| Power Factor (Typical Value) Size And Weight | 70(W)*. | | 05(W)*363(D)*90(H)m | ım | | |

| DC 600W Low Voltage Output Series Technical Parameters | | | | | | |
|---|----------------|--|---|---|---|---|
| Models | | HY-ZSU 10-60 | HY-ZSU 20-30 | HY-ZSU 36-18 | HY-ZSU 60-10 | HY-ZSU 100-6 |
| Rated Output Voltage | V | 10 | 20 | 36 | 60 | 100 |
| Rated Output Current | А | 60 | 30 | 18 | 10 | 6 |
| Rated Output Power | W | 600W | 600W | 648W | 600W | 600W |
| Efficiency | % | 83 | 86 | 87 | 87 | 87 |
| Constant Pressure Mode (CV Mode) | | | | | | |
| Output Range Can Be Set | V | | 0- Rated (| Output Value | | |
| Input Adjustment Rate | mV | | 0.01% +2mV of ra | ted output voltage | | |
| Load Adjustment Rate | mV | | 0.01% +2mV of rat | ed 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 (20 MHz) | mVpp | 50 | 50 | 50 | 50 | 80 |
| Output Voltage Rise Time10-90% | ms | 50 | 50 | 45 | 50 | 100 |
| Output Voltage Drop Time (Full Load)90-10% | ms | 25 | 25 | 20 | 25 | 80 |
| Output Voltage Drop Time (No Load) | ms | 285 | 425 | 660 | 610 | 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 currer 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 | А | | 0- Rated 0 | Output Value | | |
| Input Adjustment Rate | mA | | 0.01% +2mA of the r | rated output current | | |
| Load Adjustment Rate | mA | | 0.01% +5mA of the r | rated output current | | ı |
| Ripple Effective Value rms (5Hz -1MHz) | mArms | 150 | 75 | 25 | 8 | 5 |
| Stability And Temperature Coefficient | | | | | | |
| Temperature Drift (Rated Output Voltage/Current) | U: 0.019 | % I: 0.01% (After 3 | 0 minutes of power on | at a certain input volt | age and load ambient | temperature, 8 hours) |
| Temperature Coefficient (Rated Output Voltage/Current) | | , , , , | minutes after power o | on) | | |
| Programming And Readback Accuracy & | k Resoluti | on | | | | |
| Voltage Output Programming Accuracy | 0.05% | of the rated output vo | ltage | | | |
| Current Output Programming Accuracy | 1 | 1 1 1 1 | t + 0.05% of the rated curacy do not include | | 1.16. 11. | |
| Voltage Setting Resolution | 0.001 V | (≤60 V),0.01 V (≤600 | V) ,0.1 V (> 600 V) | | | |
| Current Setting Resolution | 0.001 A | (≤60 A) ,0.01 A (≤600 |) A) ,0.1 A (>600 A) | | | |
| Voltage Output Read-Back Accuracy | | of the rated output vo | O . | | | |
| Current Output Read-Back Accuracy | 0.19 readba | 6 of the output curren ck and monitoring acc | t + 0.05% of the rated curacy do not include | output current (in con the influence of heatir | stant current program ng drift and load temp | nming mode, the erature change rate) |
| Voltage Read Back Display | 0.00001 | V (≤ 10 V),0.0001 V | (≤100 V), 0.001 V (10 | 00 V <u 0.0<="" 1000="" td="" v),="" ≤=""><td>01 V (>1000 V)</td><td></td></u> | 01 V (>1000 V) | |
| Current Read Back Display | 0.00001 | A (≤ 10 A), 0.0001 A | (≤ 100 A), 0.001 A (1 | 00 A< I ≤ 1000 A) | | |
| Input Power Supply | | | | | | |
| Frequency | 47 Hz - | 63 Hz | | | | |
| Connection Mode | Single- | phase two-wire + grou | und, wide input voltag | e range: 85~265VAC | | |
| Power Factor (Typical Value) | 0.99(Si | ngle-Phase Input) | | | | |
| Size And Weight | | | | | | |
| Size | 70(W)*3 | 349(D)*83.25(H)mm/1 | 05(W)*363(D)*90(H)m | m | | |
| Weight | ≤ 1.9k | g/≤2.4kg | | | | |
| Colour | RAL 703 | 35 | | | | |

| DC 800W Low Voltage Output Series Technical Parameters | | | | | | |
|---|----------------|---|---|---|---|--------------------------------------|
| Models | | HY-ZSU 10-72 | HY-ZSU 20-40 | HY-ZSU 36-24 | HY-ZSU 60-14 | HY-ZSU 100-8 |
| Rated Output Voltage | V | 10 | 20 | 36 | 60 | 100 |
| Rated Output Current | А | 72 | 40 | 24 | 14 | 8 |
| Rated Output Power | W | 720W | 800W | 864W | 840W | 800W |
| Efficiency | % | 83 | 86 | 87 | 87 | 87 |
| Constant Pressure Mode (CV Mode) | | | | | | |
| Output Range Can Be Set | V | | 0- Rated 0 | Output Value | | |
| Input Adjustment Rate | mV | | 0.01% +2mV of ra | ted output voltage | | |
| Load Adjustment Rate | mV | | 0.01% +2mV of rat | ted output voltage | | |
| Maximum Compensation Voltage For Telemetry | V | 1 | 1 | 1.2 | 3 | 5 |
| Ripple Effective Value rms (5Hz -1MHz) | mVrms | 5 | 5 | 5 | 12 | 15 |
| Noise Peak-To-Peak Value p-p (20 MHz) | mVpp | 50 | 50 | 50 | 60 | 80 |
| Output Voltage Rise Time10-90% Output Voltage Drop Time | ms | 50 | 50 | 45 | 50 | 100 |
| (Full Load)90-10% | ms | 25 | 25 | 15 | 25 | 80 |
| Output Voltage Drop Time (No Load) | ms | 285 | 425 | 625 | 570 | 1370 |
| Transient Response Time | ms | | utput voltage is restored is voltage setting range: 10- | 10-90% of the rated valu | ıe. | ' |
| Constant Current Mode (CC Mode) | | | <u> </u> | | · | |
| Output Range Can Be Set | А | | 0- Rated C | Output Value | | |
| Input Adjustment Rate | mA | | 0.01% +2mA of the r | rated output current | | |
| Load Adjustment Rate | mA | | 0.02% +5mA of the r | rated output current | | |
| Ripple Effective Value rms(5Hz -1MHz) | mArms | 180 | 100 | 31 | 28 | 12 |
| Stability And Temperature Coefficient | | | | | | |
| Temperature Drift (Rated Output Voltage/Current) | U: 0.01 | % I: 0.01% (After 3 | 0 minutes of power on | at a certain input volt | age and load ambient | temperature, 8 hours) |
| Temperature Coefficient (Rated Output Voltage/Current) | U: 50pp | om/°C I: 70ppm/°C (30 |) minutes after power o | on) | | |
| Programming And Readback Accuracy & | & Resoluti | on | | | | |
| Voltage Output Programming Accuracy | | of the rated output vo | | | | |
| Current Output Programming Accuracy | 0.19 readba | 6 of the output curren ck and monitoring acc | t + 0.05% of the rated of curacy do not include t | output current (in con the influence of heatir | stant current program ng drift and load temp | nming mode, the erature change rate) |
| Voltage Setting Resolution | 0.001 V | (≤60 V),0.01 V (≤600 |) V) ,0.1 V (> 600 V) | | | |
| Current Setting Resolution | 0.001 A | (≤60 A),0.01 A (≤600 | 0 A) ,0.1 A (>600 A) | | | |
| Voltage Output Read-Back Accuracy | | of the rated output vo | | | | |
| Current Output Read-Back Accuracy | 0.19 readba | 6 of the output curren ck and monitoring acc | t + 0.05% of the rated of curacy do not include t | output current (in con the influence of heatir | stant current program ng drift and load temp | nming mode, the erature change rate) |
| Voltage Read Back Display | 0.0000 | LV(≤10V),0.0001V | (≤ 100 V), 0.001 V (10 | 00 V <u 0.0<="" 1000="" td="" v),="" ≤=""><td>01 V (>1000 V)</td><td></td></u> | 01 V (>1000 V) | |
| Current Read Back Display | 0.00001 | . A (≤ 10 A), 0.0001 A | (≤ 100 A), 0.001 A (1 | 00 A < I ≤ 1000 A) | | |
| Input Power Supply | | | | | | |
| Frequency | 47 Hz - | 63 Hz | | | | |
| Connection Mode | Single- | phase two-wire + gro | und, wide input voltag | e range: 85~265VAC | | |
| Power Factor (Typical Value) | 0.99(Si | ngle-Phase Input) | | | | |
| Size And Weight | | | | | | |
| Size | 70(W)*: | 349(D)*83.25(H)mm/1 | .05(W)*363(D)*90(H)m | m | | |
| W - L | < 1 9k | g / < 2 Alva | | | | |
| Weight | _ ~ 1.5K | ≤ 1.9kg / ≤ 2.4kg | | | | |

| | HY-ZSU 160-1.3 | HY-ZSU 320-0.65 | HY-ZSU 650-0.32 | | |
|----------------|--|--|---|--|--|
| V | 160 | 320 | 650 | | |
| А | 1.3 | 0.65 | 0.32 | | |
| W | | 208W | | | |
| % | 81 | 81 | 81 | | |
| | | | | | |
| V | | 0- Rated Output Value | | | |
| mV | 0.01% of the rated output voltage | 0.03% of the rat | ed output voltage | | |
| mV | | 0.01% of the rated output voltage | | | |
| V | 5 | 5 | 5 | | |
| mVrms | 10 | 25 | 60 | | |
| mVpp | 100 | 10 | 250 | | |
| ms | 110 | 185 | 170 | | |
| ms | 180 | 295 | 270 | | |
| ms | 2 | 1.5 | 3 | | |
| ms | The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output curs 10-90% of the rated value. Output voltage setting range: 10-100%, local sampling. < 2ms. | | | | |
| ' | | | | | |
| А | 0- Rated Output Value | | | | |
| mA | | 0.02% of the rated output current | | | |
| mA | 0.09% of the rated output current | | | | |
| mArms | 1.2 | 14 | 0.5 | | |
| | | | | | |
| U: 0.01 | % I: 0.01% (After 30 minutes of pov | wer on at a certain input voltage and | load ambient temperature, 8 hours | | |
| <u> </u> | , | ower on) | | | |
| & Resoluti | on | | | | |
| 0.05% c | of the actual voltage + 0.05% of the rat | ed voltage | | | |
| | | | | | |
| 0.001 V | (≤60 V),0.01 V (≤600 V),0.1 V (>600 V | /) | | | |
| 0.001 A | (≤60 A),0.01 A (≤600 A),0.1 A (>600 A | 4) | | | |
| 0.05% c | of the actual voltage + 0.05% of the rat | ed voltage | | | |
| 0.1% readba | 6 of the output current + 0.05% of the ck and monitoring accuracy do not inc | rated output current (in constant cu clude the influence of heating drift a | rrent programming mode, the nd load temperature change rate) | | |
| 0.00001 | $1 \ V \ (\le 10 \ V), 0.0001 \ V \ (\le 100 \ V), 0.000$ | 1 V (100 V < U ≤ 1000 V), 0.01 V (>1 | 000 V) | | |
| 0.00001 | A (≤ 10 A), 0.0001 A (≤ 100 A), 0.00 | D1 A (100 A < I ≤ 1000 A) | | | |
| | | | | | |
| 47 Hz - | 63 Hz | | | | |
| Single- | phase two-wire + ground, wide input | voltage range: 85~265VAC | | | |
| 0.99(Si | ngle-Phase Input) | | | | |
| | | | | | |
| | | | | | |
| 70(W)*: | 349(D)*83.25(H)mm/105(W)*363(D)*9 | 10(H)mm | | | |
| . , | 349(D)*83.25(H)mm/105(W)*363(D)*9 g/≤2.4kg | 10(H)mm | | | |
| | A W % W % W mV mV mV mV mV mV mS ms ms ms Ms Ms MA MA MA MA MA MA MA M | V 160 A 1.3 W % % 81 V mV mV 0.01% of the rated output voltage mV 5 mVrms 10 mVpp 100 ms 110 ms 180 ms 2 The time when the output voltage is remained by the state of | V | | |

DC 400W High Voltage Output Series Technical Parameters

| Models | | HY-ZSU 160-2.6 | HY-ZSU 320-1.3 | HY-ZSU 650-0.64 | | | |
|---|----------------|---|---|---|--|--|--|
| Rated Output Voltage | V | 160 | 320 | 650 | | | |
| Rated Output Current | А | 2.6 | 1.3 | 0.64 | | | |
| Rated Output Power | W | 416 | 416 | | | | |
| Efficiency | % | 86 | 86 | | | | |
| Constant Pressure Mode (CV Mode) | | | | | | | |
| Output Range Can Be Set | V | | 0- Rated Output Value | | | | |
| Input Adjustment Rate | mV | / 0.01% of the rated output voltage | | | | | |
| Load Adjustment 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 (20 MHz) | mVpp | 100 | 150 | 250 | | | |
| Output Voltage Rise Time10-90% | 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 currer 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 | А | 0- Rated Output Value | | | | | |
| Input Adjustment Rate | mA | 0.02% of the rated output current | | | | | |
| Load Adjustment Rate | mA | | 0.09% of the rated output current | | | | |
| Ripple Effective Value rms(5Hz -1MHz) | mArms | 1.5 | 1 | 0.6 | | | |
| Stability And Temperature Coefficient | | | | | | | |
| Temperature Drift (Rated Output Voltage/Current) | U: 0.019 | % I: 0.01% (After 30 minutes of p | ower on at a certain input voltage and | load ambient temperature, 8 hours) | | | |
| Temperature Coefficient (Rated Output Voltage/Current) | U: 50pp | om/°C I: 70ppm/°C (30 minutes after | power on) | | | | |
| Programming And Readback Accuracy & | k Resoluti | on | | | | | |
| Voltage Output Programming Accuracy | 0.05% | of the actual voltage + 0.05% of the | rated voltage | | | | |
| Current Output Programming Accuracy | 0.1% readba | 6 of the output current + 0.05% of th ck and monitoring accuracy do not | ne rated output current (in constant cu include the influence of heating drift a | rrent programming mode, the ind load temperature change rate) | | | |
| Voltage Setting Resolution | 0.001 V | (≤60 V),0.01 V (≤600 V),0.1 V (>600 | 0 V) | | | | |
| Voltage Setting Resolution | 0.001 A | (≤60 A),0.01 A (≤600 A),0.1 A (>60 | 0 A) | | | | |
| Voltage Output Read-Back Accuracy | 0.05% | of the actual voltage + 0.05% of the i | rated voltage | | | | |
| Current Output Read-Back Accuracy | | | ne rated output current (in constant cuinclude the influence of heating drift a | | | | |
| Voltage Read Back Display | 0.00001 | L V (≤ 10 V),0.0001 V (≤ 100 V), 0.0 | 001 V (100 V < U ≤ 1000 V), 0.01 V (>1 | 000 V) | | | |
| Current Read Back Display | 0.00001 | I A (≤ 10 A), 0.0001 A (≤ 100 A), 0. | 001 A (100 A < I ≤ 1000 A) | | | | |
| Input Power Supply | | | | | | | |
| Frequency | 47 Hz - | 63 Hz | | | | | |
| Connection Mode | Single- | phase two-wire + ground, wide inpu | ut voltage range: 85~265VAC | | | | |
| Power Factor (Typical Value) | 0.99(Si | ngle-Phase Input) | | | | | |
| Size And Weight | | | | | | | |
| Size | 70(W)*3 | 349(D)*83.25(H)mm/105(W)*363(D) | *90(H)mm | | | | |
| Weight | ≤ 1.9kg | g / ≤ 2.4kg | | | | | |
| | | | | | | | |

| V A W | HY-ZSU 160-4 160 | HY-ZSU 320-2 | HY-ZSU 650-1 | |
|--|--|---|--------------|--|
| A | 100 | | 650 | |
| | 160 320 4 2 | | 1 | |
| | 640 | 640 | 650 | |
| % | 88.5 | 88.5 | 88.5 | |
| 1 /0 | 90 86.3 00.3 66.3 | | | |
| V | V 0- Rated Output Value | | | |
| mV | · | | | |
| mV | , , | | | |
| V | 5 5 5 5 | | | |
| mVrms | 20 | 30 | 60 | |
| mVpp | 100 | 150 | 250 | |
| ms | 55 | 75 | 75 | |
| ms | 65 | 85 | 85 | |
| ms | 2 | 2.5 | 3 | |
| 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. | | | |
| | | | | |
| А | | 0- Rated Output Value | | |
| mA | 0.02% of the rated output current | | | |
| mA | | 0.09% of the rated output current | | |
| mArms | 2 | 1.5 | 1 | |
| | | | | |
| | U: 0.01% I: 0.01% (After 30 minutes of power on at a certain input voltage and load ambient temperature, 8 hours) | | | |
| U: 50pp | U: 50ppm/°C I: 70ppm/°C (30 minutes after power on) | | | |
| Programming And Readback Accuracy & Resolution | | | | |
| 0.05% | 0.05% of the actual voltage + 0.05% of the rated voltage | | | |
| 0.1% of readba | 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) | | | |
| 0.001 V | 0.001 V (≤60 V),0.01 V (≤600 V),0.1 V (>600 V) | | | |
| 0.001 A | 0.001 A (≤60 A),0.01 A (≤600 A),0.1 A (>600 A) | | | |
| 0.05% | 0.05% of the actual voltage + 0.05% of the rated voltage | | | |
| | 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) | | | |
| 0.00001 | $V (\le 10 \text{V}), 0.0001 \text{V} (\le 100 \text{V}), 0.0001 \text{V}$ | 001 V (100 V <u (=""),="" 0.01="" 1000="" v="" ≤="">1</u> | 000 V) | |
| 0.00001 | $A (\leq 10 A), 0.0001 A (\leq 100 A), 0.0001$ | 0.001 A (100 A < I ≤ 1000 A) | | |
| _ | | | | |
| 47 Hz - | 47 Hz - 63 Hz | | | |
| Single- | Single-phase two-wire + ground, wide input voltage range: 85~265VAC | | | |
| 0.99(Si | 0.99(Single-Phase Input) | | | |
| Size And Weight | | | | |
| 70(W)*3 | 70(W)*349(D)*83.25(H)mm/105(W)*363(D)*90(H)mm | | | |
| ≤ 1.9k | ≤ 1.9kg / ≤ 2.4kg | | | |
| RAL 703 | RAL 7035 | | | |
| | mV mV mV mV mV mVrms mVpp ms ms ms ms Ms MA | mV mV v s mVrms 20 mVpp 100 ms 55 ms 65 ms 2 The time when the output voltage is Output voltage is Output voltage is mA mA mA mA pA mA pA mA mA color of the actual voltage + 0.05% of the readback and monitoring accuracy do not 0.001 V (≤60 V), 0.01 V (≤600 V), 0.1 V (>60 0.05% of the actual voltage + 0.05% of the readback and monitoring accuracy do not 0.001 V (≤60 V), 0.01 V (≤600 V), 0.1 V (>60 0.05% of the output current + 0.05% of the readback and monitoring accuracy do not 0.001 V (≤60 V), 0.01 V (≤600 V), 0.1 V (<600 V), 0.01 V (≤600 V), 0.1 V (<600 V | mV | |

| DC 800W High Voltage Output Series Technical Parameters | | | | | |
|---|--|---|-------------------------------|--------------------|-----------------|
| Models | | HY-ZSU 160-5 | HY-ZSU 320-2.5 | HY-ZSU 375-2.2 | HY-ZSU 650-1.25 |
| Rated Output Voltage | V | 160 | 320 | 375 | 650 |
| Rated Output Current | А | 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 Pressure Mode (CV Mode) | • | | | | |
| Output Range Can Be Set | V | 0- Rated Output Value | | | |
| Input Adjustment Rate | mV | 0.01% of the rated output voltage | | | |
| Load Adjustment Rate | mV | | 0.01% of the ra | ted output voltage | |
| Maximum Compensation Voltage For Telemetry | V | 5 | 5 | 5 | 5 |
| Ripple Effective Value rms (5Hz -1MHz) | mVrms | 25 | 30 | 30 | 60 |
| Noise Peak-To-Peak Value p-p (20 MHz) | mVpp | 100 | 150 | 150 | 250 |
| Output Voltage Rise Time10-90% | ms | 45 | 55 | 55 | 55 |
| Output Voltage Drop Time (Full Load)90-10% | ms | 55 | 95 | 65 | 65 |
| Output Voltage Drop Time (No Load) | ms | 2 | 355 | 2.5 | 3 |
| Transient Response Time | ms | 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 | А | A 0- Rated Output Value | | | |
| Input Adjustment Rate | mA | 0.02% of the rated output current | | | |
| Load Adjustment Rate | mA | | 0.09% of the rat | ted output current | |
| Ripple Effective Value rms (5Hz -1MHz) | mArms | 2 | 1.5 | 1.5 | 1 |
| 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 actual voltage + 0.05% of the rated voltage | | | | |
| Current Output Programming Accuracy | 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 | 0.001 V (\$\left\{600 V\right)}, 0.01 V (\$\left\{600 V\right)}, 0.1 V (\$\left\{600 V\right)} | | | | |
| Current Setting Resolution | 0.001 A (\$60 A),0.01 A (\$600 A),0.1 A (>600 A) | | | | |
| Voltage Output Read-Back Accuracy | 0.05% of the actual voltage + 0.05% of the rated voltage | | | | |
| Current Output Read-Back Accuracy | 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 Display | 0.0000 | 0.00001 V (≤ 10 V),0.0001 V (≤ 100 V), 0.001 V (100 V < U ≤ 1000 V), 0.01 V (>1000 V) | | | |
| Current Read Back Display | 0.00001 | LA(≤10A), 0.0001A(≤ | 100 A), 0.001 A (100 A < I = | ≤ 1000 A) | |
| Input Power Supply | | | | | |
| Frequency | 47 Hz - 63 Hz | | | | |
| Connection Mode | Single-phase two-wire + ground, wide input voltage range: 85~265VAC | | | | |
| Power Factor (Typical Value) | 0.99(Si | ngle-Phase Input) | | | |
| Size And Weight | | | | | |
| Size | 70(W)*: | 70(W)*349(D)*83.25(H)mm/105(W)*363(D)*90(H)mm | | | |
| Weight | ≤ 1.9kg / ≤ 2.4kg | | | | |
| Colour | RAL 70: | RAL 7035 | | | |

| Protection Function | | |
|--|---|--|
| OVP Overvoltage Protection Setting Range | 10-110%, beyond the limit output immediately off | |
| OCP Overcurrent Protection Setting Range | 0-105%, beyond the limit output immediately off | |
| OTP Overtemperature Protection | Output beyond the limit is turned off immediately | |
| 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 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 1 m to weighted measurement | | |

| Control Panel | | |
|------------------|--|--|
| Display | LCD Display | |
| Control Function | Flying shuttle knob adjustment,Output ON/OFF switch Vset, Iset, Output keys | |

Front Panel



- Liquid crystal display
- ② Current/voltage setting key, output key
- 3 Adjust button, rotate to fine-tune the number, press to confirm the command
- 4 Power switch
- ⑤ Air inlet

Rear Panel



- ① Output connection: 6V-100V model is bus type
- ② exhaust port
- 3 Input port
- 4 USB interface
- ⑤ RS232/RS485 communication port
- **(6)** Isolation control and signal interface
- Telemetry interface
- 8 Analog control and monitoring interface

Power Semiconductor Customer



Changchun

National Science



Electrical industry



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Microelectronics

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Hynetek



Yuexin Technology



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technology

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◇厨字佳

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Cooperative Clients (Partial)

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CASC 811 (Shanghai Space Power Research Institute)

CASC 812 (Shanghai Satellite Equipment Research Institute)

CASC 502 (Beijing Control Engineering Research Institute)

CASC 510 (Lanzhou Institute of Space Technology Physics)

CASC 203 (China Ordnance Industry 203 Research Institute)

CASIC 206 (Beijing Machinery and Equipment Research Institut)

CASIC 242 Factory (Lanzhou Flight Control Co., LTD.)

CASIC 307 Factory (Aerospace Chenguang Co., LTD.)

CASIC 33 (33 Aerospace Science and Industry Institutes)

CASIC 3651 Factory (Shanghai Aerospace Control Technology)

AVIC 603 (AVIC Xi 'an Aircraft Design and Research Institute)

AVIC 613 (Luoyang Electro-Optical Equipment Research Institute) of Aviation Industry Corporation of China

AVIC 615 (Aeronautical Radio Electronics Research Institute of China)

AVIC 618 (Xi 'an Flight Automatic Control Research Institute)

AVIC 631 (Aviation Computing Technology Research Institute of AVIQ

AVIC 115 Factory (Shaanxi Aero Electric Co., LTD.)

AVIC 118 Factory (Shanghai Aviation Electric Appliance Co., LTD.) AVIC 135 Factory (State-owned Wanli Electromechanical Factory)

AVIC 181 Factory (Wuhan Aviation Instrument Co., LTD.)

AVIC 304 ($^{\rm Beijing\,Great\,Wall\,Institute\,of\,Measurement\,and})$

AECC 606 (Shenyang Engine Research Institute)

AVIC 607 (China Leihua Electronic Technology Institute)

Jiangnan Shipbuilding (Group) Co., LTD

Nanjing Panda Electronics Co., LTD

State-owned 741 Factory (Nanjing Huadong Electronics Group Co., LTD.)

Institute of Modern Physics, Chinese Academy of Sciences

CETC 14 (Nanjing Institute of Electronic Technology)

CFTC 21 (Shanghai Micromotor Research Institute)

CETC 23 (Shanghai Transmission Line Research Institute)

CETC 36 (Gangnam Electronics and Communication)

CETC 38 (East China Institute of Electronic Engineering)

CETC 50 (Shanghai Microwave Technology Research Institute)

CETC 51 (Shanghai Microwave Equipment Research Institute)

CETC 54 ($\,$ Shijiazhuang Communication Measurement and) $\,$ Control Technology Research Institute

CETC 55 (Nanjing Institute of Electronic Devices)

CSIC 707 (Tianjin Institute of Marine Instruments)

CSIC 7107 (Shaanxi Aerospace Navigation Equipment Co., LTD.)

CSIC 719 (Wuhan Second Ship Design Institute)

CSIC 704 (Shanghai Marine Equipment Research Institute)

CSIC 726 (Shanghai Marine Electronic Equipment Research)

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)







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



Xi'an Supervision & Inspection Institute of Product Quality



Cooperative Clients (Partial)

The Chinese People's Liberation Army

South Sea Fleet

East China Sea Fleet

North Sea Fleet

Navy Factory 701 / Factory 702

4724 Factory (Shanghai Haiying Machinery Factory)

Unit 95861 (Air First Base)

5720 Factory of the People's Liberation Army of China

Commercial Aviation







Rockwell Collins



Guangzhou Aircraft Maintenance Engineering Co., LTD



Beijing Aircraft Maintenance Engineering Co., LTD

Military Academies & Local Universities



national university of



Aerospace defense technology Engineering University



Army Engineering University



air force engineering university



naval university of engineering



Dalian Naval Academy



Naval Aviation University



Beihang University



Beijing Institute of Technology



Harbin Institute of Technology



Harbin Engineering University



Nanjing University of Aeronautics



Nanjing University of Science and Technology



Northwestern Polytechnical University



University of Science and Technology of China



Tsinghua University



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Shanghai Jiaotong University



Zhejiang University



University



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Shanghai University



Beijing University of Technology



Shanghai Maritime University



Dalian University of Technology



Dalian Maritime University



South China University of Technology



Huazhond University of Science and Technology



Xi'an Electronic Technology



Xi'an Jiaotong University



Sichuan University



donghua university



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north china electric power university



Changchun Institute of Technology



xiangtan university



zheiiana university of technology



Xi'an University of technology



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*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: