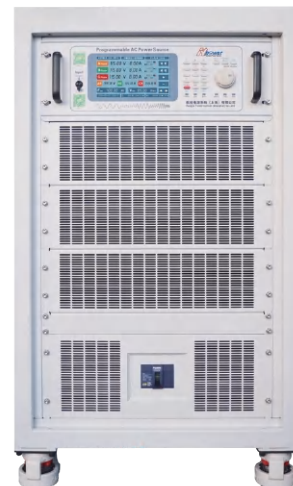


HY-PLMSU Series
Linear Programmable AC Medium Frequency Power Supply
Hangyu Power System (Shanghai) Co., LTD



HY-PLMSU Series Linear Programmable AC Medium Frequency Power Supply

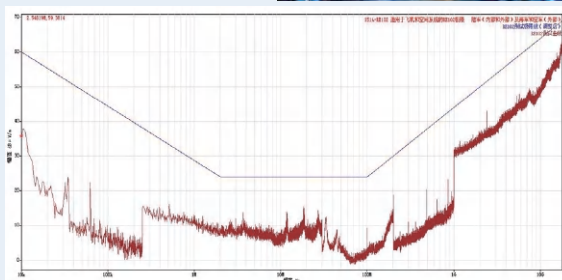
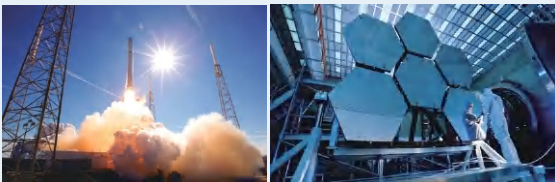


High Power
High Precision
High Reliability



Application Field

- Aviation military
- Testing laboratory
- Electric machine
- Electronic parts
- Nuclear magnetic experiment test
- Darkroom experiment
- EMC test
- Military parts maintenance
- Military testing and verification
- Aircraft electronic test
- Maintenance station



Product Features

- Output frequency range 320Hz-480Hz/300Hz-800Hz, Optional range 45Hz-5kHz
- Output capacity range 30VA-30kVA
- Output voltage standard L-N 0-138Vrms
The value ranges from 0-180Vrms, 276Vrms, and 1kVrms
- Number of output phases Single-phase/three-phase
- Three-phase voltage independent adjustable, phase difference 0-359.99° adjustable
- Linear power technology, ultra-low distortion rate, ultra-low external interference
- Support front panel programming, without computer software control
- The voltage rise and fall slopes are adjustable
- Power output soft start function
- 16 bits D/A high precision converter for accurate output
- 16 bits A/D high precision converter, more accurate read back
- Multiple protection functions OVP, OCP, and OTP
- Standard 19-inch rack size, or floor-to-ceiling cabinet
- 7 inch LCD screen
- Touch screen operation & digital key input
- Multistage shuttle 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
- Supports Modbus protocol
- Standard interface: RS-485&RS-232
- Optional interface: LAN、CAN、USB、GPIB、
Analog programming and monitoring (isolated)

HY-PLMSU Series Product Selection Table

| Product Model Naming Rules | | | | | Optional Function |
|---|--|---|-------------------------|--|---|
| Product Series | Input Phase Number | Output Phase Number | Output Capacity | Optional Function | |
| HY-PLMSU | 1 | 3 | 003 | - CF | |
| Series name | 1: indicates the input phase 3: Input three-phase | 1: indicates the input phase 3: Output three-phase | Output capacity 3kVA | Short for optional function See Optional features | |
| <p>Selection examples: Product model: HY-PLMSU 13003-CF Input single-phase, output three-phase, output capacity 3kVA, Choose user-defined features.</p> | | | | | <ul style="list-style-type: none"> - HR High resolution/precision - D028 DC input, DC 28.5 V (Some models are supported, please explain when ordering) - D270 DC input, DC 270V (Some models are supported, please explain when ordering) - T2 operating temperature -20°C to 45°C - T4 Operating temperature -40°C to 45°C - CF user-defined function (please specify when ordering) - MR Measurement Report (issued by CNAS certified third party) |

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

| Product Model | Output Capacity | Input | Expor Tation | Product Model | Output Capacity | Input | Expor Tation | Output Voltage | Output Frequency |
|----------------|-----------------|--------------|--------------|----------------|-----------------|--------------|--------------|----------------|--|
| HY-PLMSU 1101L | 100VA | Single phase | Single phase | HY-PLMSU 13L03 | 30VA | Single phase | Three phase | Standard: | Standard: 400Hz Purchase: 320Hz - 480Hz Purchase: 45Hz - 5000Hz |
| HY-PLMSU 1103L | 300VA | | | HY-PLMSU 13L06 | 60VA | | | L-N 0-115Vrms | |
| HY-PLMSU 1105L | 500VA | | | HY-PLMSU 13L09 | 90VA | | | L-N 0-138Vrms | |
| HY-PLMSU 11001 | 1kVA | | | HY-PLMSU 1303L | 300VA | | | Purchase: | |
| HY-PLMSU 11002 | 2kVA | | | HY-PLMSU 1306L | 600VA | | | L-N 0-180Vrms | |
| HY-PLMSU 11003 | 3kVA | | | HY-PLMSU 1309L | 900VA | | | L-N 0-230Vrms | |
| HY-PLMSU 31004 | 4kVA | Three phase | Single phase | HY-PLMSU 1315L | 1.5kVA | Three phase | Three phase | L-N 0-276Vrms | Shipboard: 220V±10% 230V±10% Boeing 787 |
| HY-PLMSU 31005 | 5kVA | | | HY-PLMSU 13003 | 3kVA | | | L-N 0-1kVrms | |
| HY-PLMSU 31010 | 10kVA | | | HY-PLMSU 1345L | 4.5kVA | | | | |
| | | | | HY-PLMSU 3345L | 4.5kVA | | | | |
| | | | | HY-PLMSU 33006 | 6kVA | | | | |
| | | | | HY-PLMSU 33010 | 10kVA | | | | |
| | | | | HY-PLMSU 33015 | 15kVA | | | | |
| | | | | HY-PLMSU 33018 | 18kVA | | | | |
| | | | | HY-PLMSU 33030 | 30kVA | | | | |
| | | | | | | | | | |

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

HY-PLMSU Series Technical Parameters

| Single-phase output | | | | | | | | | | |
|--------------------------------------|---|--|-------------|-------------|-------------|-------------|---|-------------|-----------|-------|
| Single in, single out | | | | | | | Three in, single out | | | |
| Product Model | PLMSU 1101L | PLMSU 1103L | PLMSU 1105L | PLMSU 11001 | PLMSU 11002 | PLMSU 11003 | PLMSU 31004 | PLMSU 31005 | PLM 31010 | |
| Power | 100VA | 300VA | 500VA | 1kVA | 2kVA | 3kVA | 4kVA | 5kVA | 10kVA | |
| Model size | 2U | 4U | 4U | 4U | 10U | 15U | 18U | 24U | 30U | |
| | *1) 2U and 4U, standard 19-inch rack mount, or tabletop (fixed pads); 2) 10U, standard 19-inch rack type, or floor type (with movable universal casters and brakes); 3) 15U, 18U and above non-standard cabinets, floor type cabinets, with movable universal casters and brakes. | | | | | | | | | |
| Circuit mode | Linear amplification system | | | | | | | | | |
| Communication mode | Standard: RS-485 & RS-232 Options: LAN, CAN, USB, GPIB, analog programming and monitoring interface (isolated type) | | | | | | | | | |
| Input | | | | | | | | | | |
| Connection mode | Single-phase two-wire + Ground (LN+PE) | | | | | | Three-phase three-wire + ground wire & three-phase four-wire + ground wire (ABC+PE/ABCN+PE) | | | |
| Input phase | Single phase 1Φ | | | | | | Three-phase 3Φ | | | |
| Input waveform | Sinusoidal wave | | | | | | Sinusoidal wave | | | |
| Input voltage | 220Vrms±10% | | | | | | 380Vrms±10% | | | |
| Input frequency | 47Hz-63Hz | | | | | | 47Hz-63Hz | | | |
| Exportation | | | | | | | | | | |
| Output phase | Single phase 1Φ | | | | | | | | | |
| Rated set voltage | Standard | L-N 0-138Vrms Continuously adjustable | | | | | | | | |
| | Purchase | L-N 0-180Vrms Continuously adjustable; L-N 0-230Vrms continuously adjustable; L-N 0-276Vrms Continuously adjustable; Max1000Vrms continuously adjustable (Optional voltage, output current will be proportionally reduced) | | | | | | | | |
| Rated current | | 0.7A | 2.2A | 3.7A | 7.3A | 14.5A | 21.8A | 29A | 36.3A | 72.5A |
| | *The rated current is calculated based on the 138V voltage. If other voltages are selected, the rated current is calculated based on the selected voltage. | | | | | | | | | |
| Maximum current | | 0.9A | 2.7A | 4.4A | 8.7A | 17.4A | 26.1A | 34.8A | 43.5A | 87A |
| | *Calculate the maximum current based on the 138V voltage. For example, select other voltages to calculate the maximum current. | | | | | | | | | |
| Frequency | Standard | 320 Hz ~ 480 Hz Continuously adjustable | | | | | | | | |
| | Custom | 45 Hz ~ 500 Hz, 45 Hz ~ 800 Hz, 300 Hz ~ 500 Hz, 300 Hz ~ 800 Hz, 300 Hz ~ 1200 Hz, 300 Hz ~ 1500 Hz, 300 Hz ~ 2000 Hz, 500 Hz-5KHz You can choose either one | | | | | | | | |
| Property | | | | | | | | | | |
| Input adjustment rate | ≤0.5%F.S. (Resistance test) | | | | | | | | | |
| Load adjustment rate | ≤0.5%F.S. (resistance test, 45Hz-500Hz output); ≤1%F.S. (resistance test, > 500Hz output) | | | | | | | | | |
| Waveform distortion _(THD) | Sine wave, THD≤0.5% (resistance test, 45Hz-500Hz output); THD≤1% (resistance test, > 500Hz output) * Based on 400Hz test results. | | | | | | | | | |
| Frequency stability | ≤0.02%F.S. | | | | | | | | | |
| Voltage stability | ≤0.5%F.S. | | | | | | | | | |
| Voltage crest coefficient | 1.414±0.05 | | | | | | | | | |
| Noise | ≤65dB(A), use 1m to weigh the measurement | | | | | | | | | |

HY-PLMSU series technical parameters

Programming And Readback Accuracy & Resolution

| | | |
|---------------|---------------------------------------|--|
| Settings | Voltage output programming accuracy | $\pm 0.3\%$ F.S. |
| | Frequency output programming accuracy | $\pm 0.01\%$ F.S. |
| | Voltage setting resolution | 0.01V |
| | Frequency setting resolution | 0.01Hz |
| Backward read | Voltage output read-back accuracy | $\pm 0.3\%$ F.S. |
| | Current output read back accuracy | $\pm 0.3\%$ F.S. |
| | Frequency output read-back accuracy | $\pm 0.01\%$ F.S. |
| | Voltage read back resolution | 0.01V |
| | Current read back resolution | 0.0001A ($\leq 6A$) ; 0.001A ($\leq 60A$) ; 0.01A < 600A (16Bits resolution) |
| | Frequency read-back resolution | 0.01Hz |

Protection Function

| | |
|---------------------|--|
| Protection function | Overvoltage, overcurrent, internal overheating, short circuit |
| Overload capacity | 125% current 15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately |
| Memory function | Parameters of the last run |
| Preset function | Adjust the output voltage and frequency online |

Environmental Condition

| | |
|-------------------------------|---|
| Environment | Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment |
| Operating ambient temperature | 0°C to 45°C; Choose from -20°C to 45°C; -40°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 12,000m |
| Cooling condition | Forced air cooling, intelligent speed control fan, both sides/front air, rear air |
| Transport condition | Road transport |

Control Panel

| | |
|----------------------|---|
| Display | 4/7 inch, LCD LCD display, touch screen |
| Display item | Phase voltage (set value & measured value), current measured value, frequency set value, working time, cumulative working time, current time and date |
| Control function | Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator |
| Mode of operation | Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment) |
| Control mode | Local control/remote control |
| Programming function | Step/ladder/gradient |

HY-PLMSU Series Technical Parameters

| Single Phase Input Three Phase Output | | | | | | | | | |
|---------------------------------------|--|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Product model | PLMSU 13L03 | PLMSU 13L06 | PLMSU 13L09 | PLMSU 1303L | PLMSU 1306L | PLMSU 1309L | PLMSU 1315L | PLMSU 13003 | PLMSU 1345L |
| Power | 30VA | 60VA | 90VA | 300VA | 600VA | 900VA | 1.5kVA | 3kVA | 4.5kVA |
| Model size | 2U | 2U | 2U | 4U | 4U | 10U | 10U | 18U | 24U |
| | *1) 2U and 4U, standard 19-inch rack mount, or tabletop (fixed pads); 2) 10U, standard 19-inch rack type, or floor type (with movable universal casters and brakes); 3) 18U and above non-standard cabinets, floor to floor cabinets, with movable universal casters and brakes. | | | | | | | | |
| Circuit mode | Linear amplification system | | | | | | | | |
| Communication mode | Standard: RS-485 & RS-232 Options: LAN, CAN, USB, GPIB, analog programming and monitoring interface (isolated type) | | | | | | | | |
| Input | | | | | | | | | |
| Connection mode | Single-phase two-wire + Ground (LN+PE) | | | | | | | | |
| Input phase | Single phase 1Φ | | | | | | | | |
| Input waveform | Sinusoidal wave | | | | | | | | |
| Input voltage | 220Vrms±10% | | | | | | | | |
| Input frequency | 47Hz-63Hz | | | | | | | | |
| Exportation | | | | | | | | | |
| Output phase | Three-phase 3Φ | | | | | | | | |
| Rated set voltage | Standard | L-N 0-138Vrms is continuously adjustable, L-L 0-240Vrms is continuously adjustable | | | | | | | |
| | Purchase | L-N 0-180Vrms Continuously adjustable; L-N 0-230Vrms continuously adjustable; L-N 0-276Vrms Continuously adjustable; Max1000Vrms continuously adjustable (optional model, output current will be reduced proportionally) | | | | | | | |
| Rated current | 0.07A | 0.15A | 0.22A | 0.73A | 1.45A | 2.2A | 3.63A | 7.25A | 10.9A |
| | *The rated current is calculated based on the 138V voltage. If other voltages are selected, the rated current is calculated based on the selected voltage. | | | | | | | | |
| Maximum current | 0.09A | 0.18A | 0.26A | 0.88A | 1.74A | 2.6A | 4.36A | 8.7A | 13.1A |
| | *Calculate the maximum current based on the 138V voltage. For example, select other voltages to calculate the maximum current. | | | | | | | | |
| Frequency | Standard | Rated 400Hz, adjustable range 320Hz-480Hz continuously adjustable | | | | | | | |
| | Custom | 45 Hz ~ 500 Hz, 45 Hz ~ 800 Hz, 300 Hz ~ 500 Hz, 300 Hz ~ 800 Hz, 300 Hz ~ 1200 Hz, 300 Hz ~ 1500 Hz, 300 Hz ~ 2000 Hz, 500 Hz-5KHz You can choose either one | | | | | | | |
| Property | | | | | | | | | |
| Input adjustment rate | ≤0.5%F.S. (Resistance test) | | | | | | | | |
| Load adjustment rate | ≤0.5%F.S. (resistance test, 45Hz-500Hz output); ≤1%F.S. (resistance test, > 500Hz output) | | | | | | | | |
| Waveform distortion(THD) | Sine wave, THD≤0.5% (resistance test, 45Hz-500Hz output); THD≤1% (resistance test, > 500Hz output) | | | | | | | | |
| Frequency stability | ≤0.02% | | | | | | | | |
| Voltage stability | ≤0.5% | | | | | | | | |
| Voltage crest coefficient | 1.414±0.05 | | | | | | | | |
| Voltage unbalance | Three-phase output ≤0.5Vrms (no load or balanced load) | | | | | | | | |
| Phase difference | Load three-phase balance or no-load ±2° | | | | | | | | |
| Noise | ≤65dB(A), use 1m to weigh the measurement | | | | | | | | |
| Three-phase voltage/phase difference | Three-phase voltage independent adjustable, phase difference 0-359.99° adjustable | | | | | | | | |

HY-PLMSU Series technical parameters

Programming And Readback Accuracy & Resolution

| | | |
|---------------|---------------------------------------|--|
| Settings | Voltage output programming accuracy | $\pm 0.3\%$ F.S. |
| | Frequency output programming accuracy | $\pm 0.01\%$ F.S. |
| | Voltage setting resolution | 0.01V |
| | Frequency setting resolution | 0.01Hz |
| Backward read | Voltage output read-back accuracy | $\pm 0.3\%$ F.S. |
| | Current output read back accuracy | $\pm 0.3\%$ F.S. |
| | Frequency output read-back accuracy | $\pm 0.01\%$ F.S. |
| | Voltage read back resolution | 0.01V |
| | Current read back resolution | 0.0001A ($\leq 6A$) ; 0.001A ($\leq 60A$) ; 0.01A < 600A (16Bits resolution) |
| | Frequency read-back resolution | 0.01Hz |

Protection Function

| | |
|---------------------|--|
| Protection function | Overvoltage, overcurrent, internal overheating, short circuit |
| Overload capacity | 125% current 15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately |
| Memory function | Parameters of the last run |
| Preset function | Adjust the output voltage and frequency online |

Environmental Condition

| | |
|-------------------------------|---|
| Environment | Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment |
| Operating ambient temperature | 0°C to 45°C; Choose from -20°C to 45°C; -40°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 condition | Forced air cooling, intelligent speed control fan, both sides/front air, rear air |
| Transport condition | Road transport |

Control Panel

| | |
|----------------------|---|
| Display | 4/7 inches, LCD LCD display, touch screen |
| Display item | Phase voltage (set value & measured value), current measured value, frequency set value, working time, cumulative working time, current time and date |
| Control function | Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator |
| Mode of operation | Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment) |
| Control mode | Local control/remote control |
| Programming function | Step/ladder/gradient |

HY-PLMSU Series Technical Parameters

| Three Phase Input Three Phase Output | | | | | | | |
|---------------------------------------|--|--|----------------------|----------------------|----------------------|----------------------|-------|
| Product model | PLMSU 3345L | PLMSU 33006 | PLMSU 33010 | PLMSU 33015 | PLMSU 33018 | PLMSU 33030 | |
| Power | 4.5kVA | 6kVA | 10kVA | 15kVA | 18kVA | 30kVA | |
| Model size | 24U | 30U | Non-standard cabinet | Non-standard cabinet | Non-standard cabinet | Non-standard cabinet | |
| | *1) Non-standard cabinet above 18U, floor to floor cabinet with movable universal casters and brakes. | | | | | | |
| Circuit mode | Linear amplification system | | | | | | |
| Communication mode | Standard: RS-485 & RS-232 Options: LAN, CAN, USB, GPIB, analog programming and monitoring interface (isolated type) | | | | | | |
| Input | | | | | | | |
| Connection mode | Three-phase three-wire + Ground wire & three-phase four-wire + ground wire (ABC+PE/ABCN+PE) | | | | | | |
| Input phase | Three-phase 3Φ | | | | | | |
| Input waveform | Sinusoidal wave | | | | | | |
| Input voltage | 380Vrms±10% | | | | | | |
| Input frequency | 47Hz-63Hz | | | | | | |
| Exportation | | | | | | | |
| Output phase | Three-phase 3Φ | | | | | | |
| Rated set voltage | Standard | L-N 0-138Vrms is continuously adjustable, L-L 0-240Vrms is continuously adjustable | | | | | |
| | Purchase | L-N 0-180Vrms Continuously adjustable; L-N 0-230Vrms continuously adjustable; L-N 0-276Vrms Continuously adjustable; Max1000Vrms continuously adjustable (Optional voltage, output current will be proportionally reduced) | | | | | |
| Rated current | | 10.9A | 14.5A | 24.2A | 36.3A | 43.5A | 72.5A |
| | *The rated current is calculated based on the 138V voltage. If other voltages are selected, the rated current is calculated based on the selected voltage. | | | | | | |
| Maximum current | | 13.1A | 17.4A | 29A | 43.5A | 52.2A | 87A |
| | *Calculate the maximum current based on the 138V voltage. For example, select other voltages to calculate the maximum current. | | | | | | |
| Frequency | Standard | Rated 400Hz, adjustable range 320Hz-480Hz continuously adjustable | | | | | |
| | Custom | 45 Hz ~ 500 Hz, 45 Hz ~ 800 Hz, 300 Hz ~ 500 Hz, 300 Hz ~ 800 Hz, 300 Hz ~ 1200 Hz, 300 Hz ~ 1500 Hz, 300 Hz ~ 2000 Hz, 500 Hz-5KHz You can choose either one | | | | | |
| Property | | | | | | | |
| Input adjustment rate | ≤0.5%F.S. (Resistance test) | | | | | | |
| Load adjustment rate | ≤0.5%F.S. (resistance test, 45Hz-500Hz output); ≤1%F.S. (resistance test, > 500Hz output) | | | | | | |
| Waveform distortion(THD) | Sine wave, THD≤0.5% (resistance test, 45Hz-500Hz output); THD≤1% (resistance test, > 500Hz output) | | | | | | |
| Frequency stability | ≤0.02% | | | | | | |
| Voltage stability | ≤0.5% | | | | | | |
| Voltage crest coefficient | 1.414±0.05 | | | | | | |
| Voltage unbalance | Three-phase output ≤0.5Vrms (no load or balanced load) | | | | | | |
| Phase difference | Load three-phase balance or no-load ±2° | | | | | | |
| Noise | ≤65dB(A), use 1m to weigh the measurement | | | | | | |
| Three-phase voltage/ phase difference | Three-phase voltage independent adjustable, phase difference 0-359.99° adjustable | | | | | | |

HY-PLMSU Series Technical Parameters

Programming And Readback Accuracy & Resolution

| | | |
|---------------|---------------------------------------|--|
| Settings | Voltage output programming accuracy | $\pm 0.3\%$ F.S. |
| | Frequency output programming accuracy | $\pm 0.01\%$ F.S. |
| | Voltage setting resolution | 0.01V |
| | Frequency setting resolution | 0.01Hz |
| Backward read | Voltage output read-back accuracy | $\pm 0.3\%$ F.S. |
| | Current output read back accuracy | $\pm 0.3\%$ F.S. |
| | Frequency output read-back accuracy | $\pm 0.01\%$ F.S. |
| | Voltage read back resolution | 0.01V |
| | Current read back resolution | 0.0001A ($\leq 6A$) ; 0.001A ($\leq 60A$) ; 0.01A ($< 600A$) (16Bits resolution) |
| | Frequency read-back resolution | 0.01Hz |

Protection Function

| | |
|---------------------|--|
| Protection function | Overvoltage, overcurrent, internal overheating, short circuit |
| Overload capacity | 125% current 15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately |
| Memory function | Parameters of the last run |
| Preset function | Adjust the output voltage and frequency online |

Environmental Condition

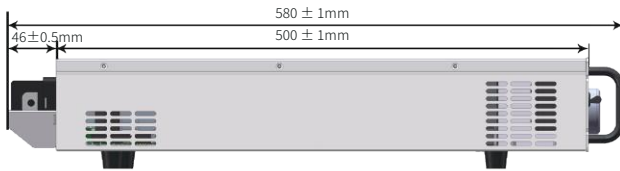
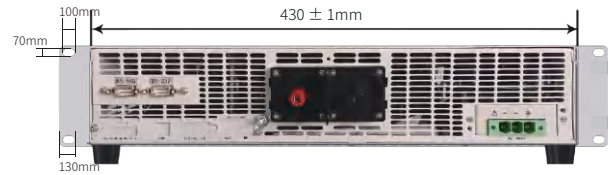
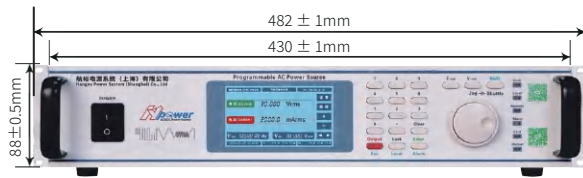
| | |
|-------------------------------|---|
| Environment | Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment |
| Operating ambient temperature | 0°C to 45°C; Choose from -20°C to 45°C; -40°C to 45°C |
| Storage ambient temperature | -20°C to 65°C |
| Working ambient humidity | 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 condition | Forced air cooling, intelligent speed control fan, both sides/front air, rear air |
| Transport condition | Road transport |

Control Panel

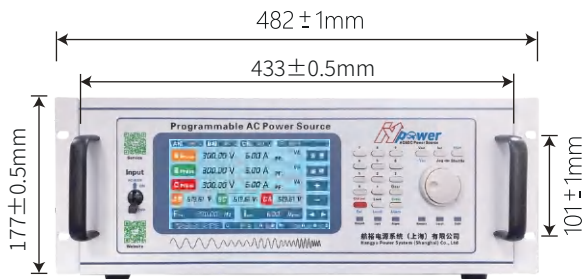
| | |
|----------------------|---|
| Display | 7 inches, LCD LCD display, touch screen |
| Display item | Phase voltage (set value & measured value), current measured value, frequency set value, working time, cumulative working time, current time and date |
| Control function | Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator |
| Mode of operation | Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment) |
| Control mode | Local control/remote control |
| Programming function | Step/ladder/gradient |

Appearance & Size

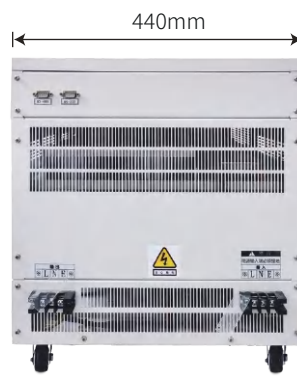
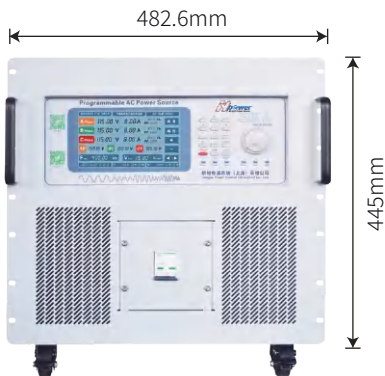
2U 430(W) * 500(D) * 88(H) mm



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



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

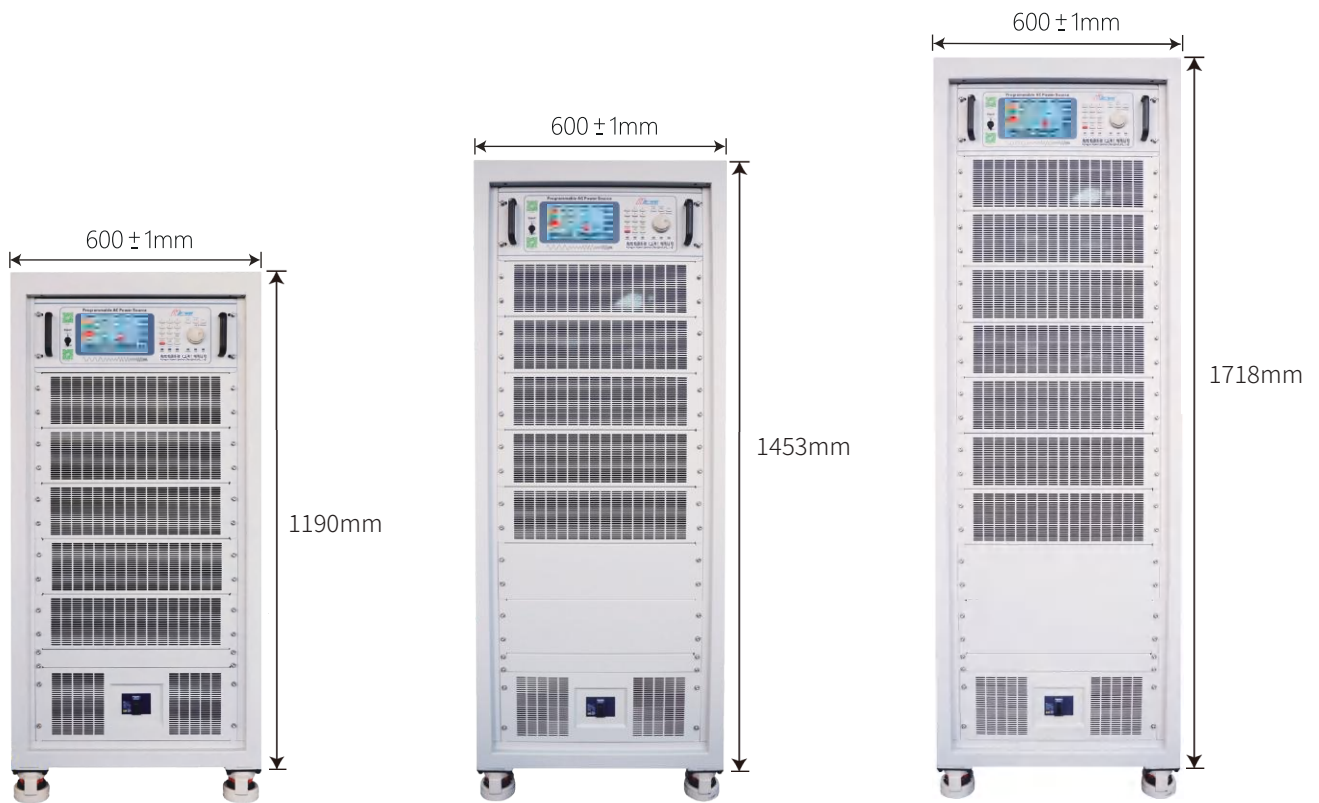


Appearance & Size

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

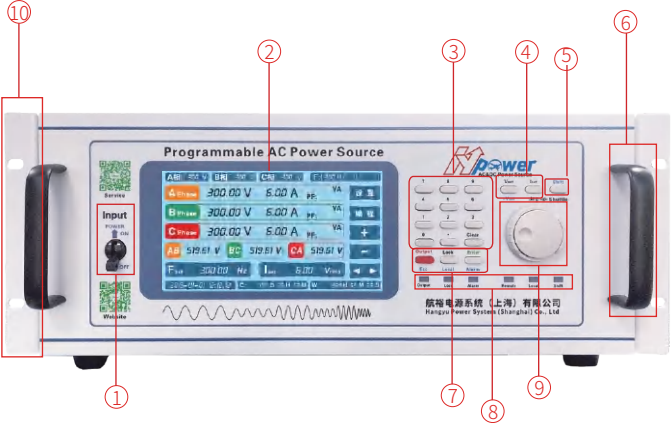


24U 600(W)*800(D)*1190(H)mm
30U 600(W)*800(D)*1453(H)mm
36U 600(W)*800(D)*1718(H)mm



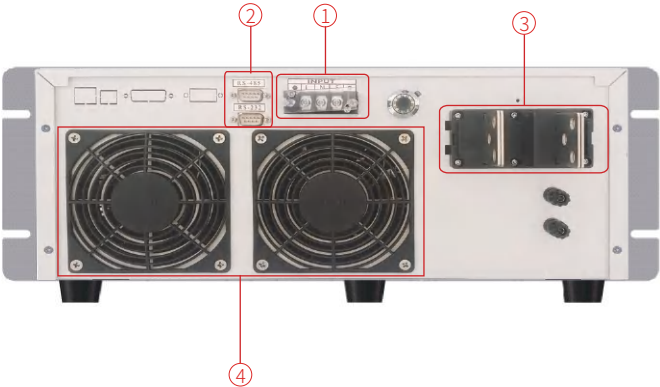
Display And Control Panel

Control Panel



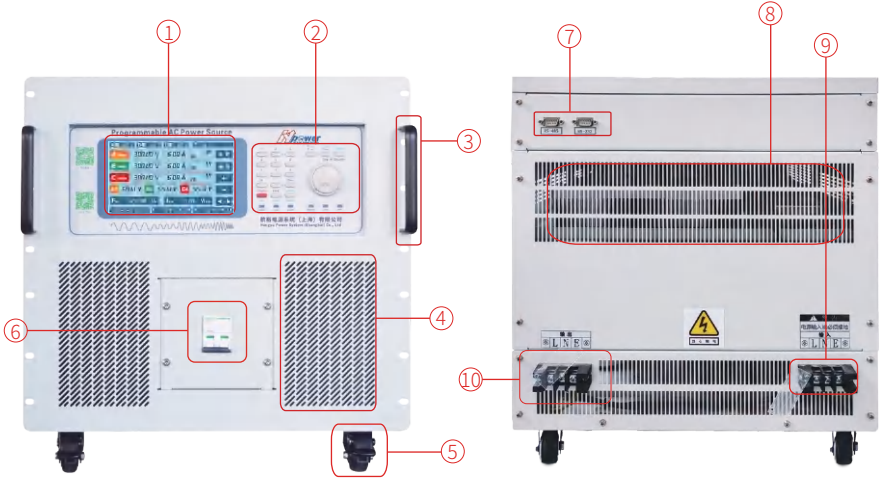
- ① Power input circuit breaker
- ② LCD display (7 inches, touch screen)
- ③ Numeric input keyboard
- ④ Frequency/voltage or current setting key
- ⑤ Shift function reuse key
- ⑥ Chassis handle
- ⑦ Lock Lock, Enter confirm, Esc exit
Local Local or Reset Restarts
Output ON/OFF Switch
- ⑧ Status indicator
- ⑨ Multi-stage shuttle 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 terminal
- ④ Heat dissipation outlet

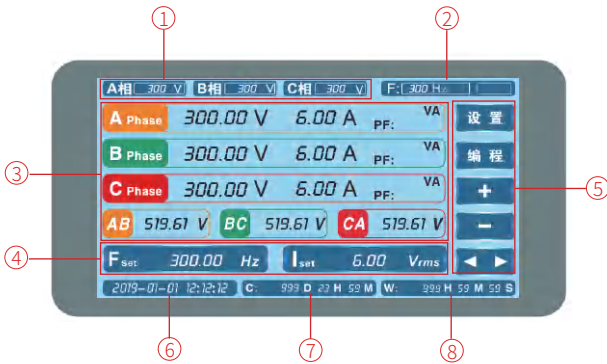
Front Panel & Rear Panel



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

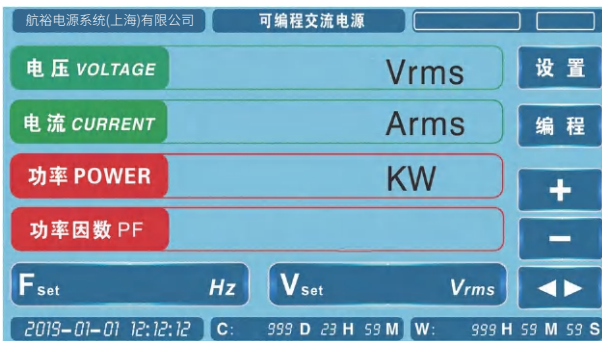
Display And Control Panel

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
- ⑧ This running time

Display Interface



Main interface of single-phase power supply



Main interface of the dual phase power supply

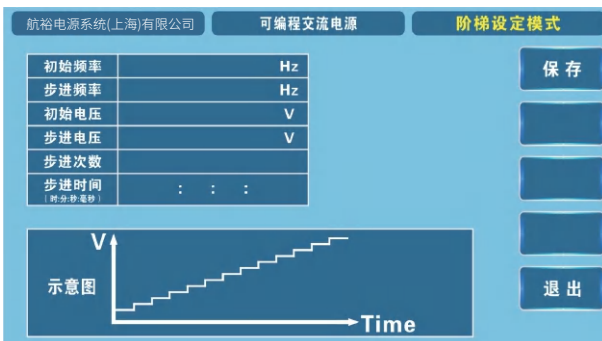


Main interface of three-phase power supply

航裕电源系统(上海)有限公司 可编程交流电源 步阶设定模式

| 步号 | 频率 (Hz) | 电压 (V) | 运行时间 (H:M:S.mS) | 起始步 |
|----|---------|--------|-----------------|------|
| | : | : | : | 起始步 |
| | : | : | : | 结束步 |
| | : | : | : | 循环次数 |
| | : | : | : | 保存 |
| | : | : | : | 退出 |
| | : | : | : | 上一页 |
| | : | : | : | 下一页 |

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



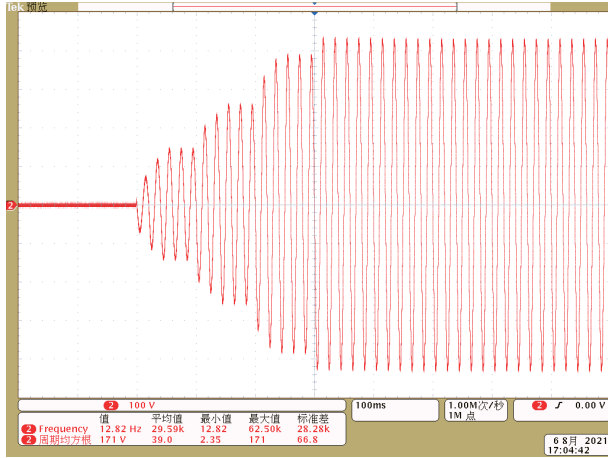
Step setting page can set the required initial frequency, Step frequency, initial voltage, step voltage, step number and step time

航裕电源系统(上海)有限公司 可编程交流电源 渐变设定模式

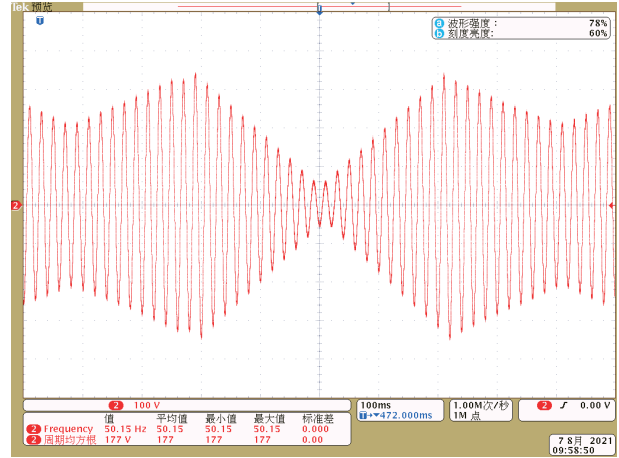
| 步号 | 频率 (Hz) | 电压 (V) | 运行时间 (时:分:秒:毫秒) | 起始步 |
|----|---------|--------|-----------------|------|
| 起 | | | : | 起始步 |
| 止 | | | : | 结束步 |
| 起 | | | : | 循环次数 |
| 止 | | | : | 保存 |
| 起 | | | : | 退出 |
| 止 | | | : | 上一页 |
| 起 | | | : | 下一页 |

The gradient Settings page can set the required voltage and frequency Run time, initial step, end step

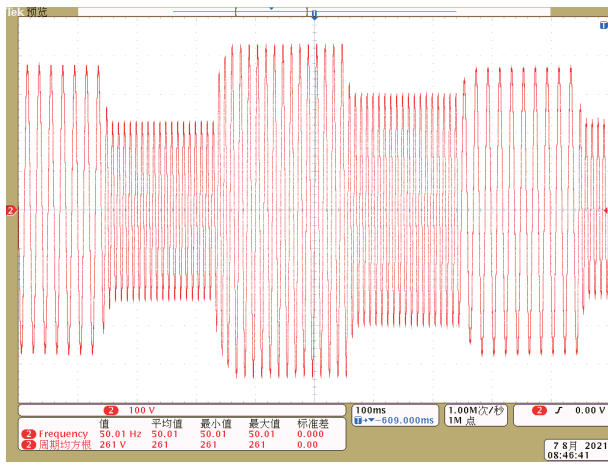
Output Voltage Waveform Of Single-phase Power Supply



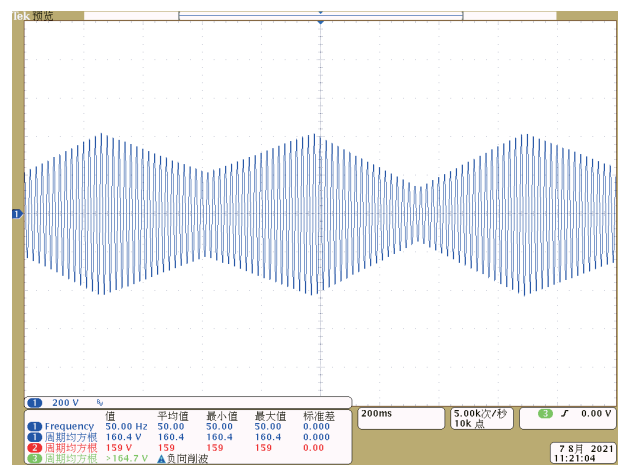
Step



Step

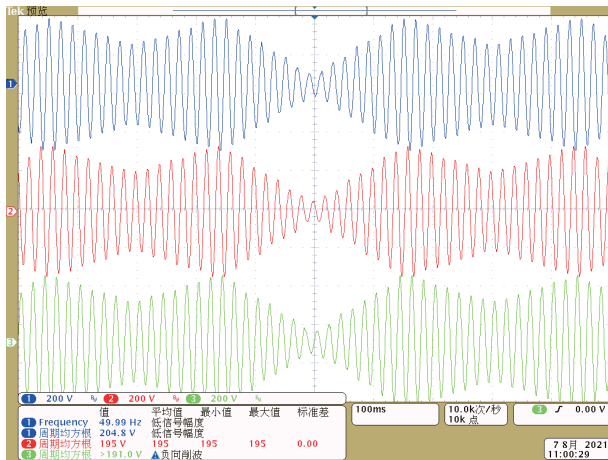


Ladder

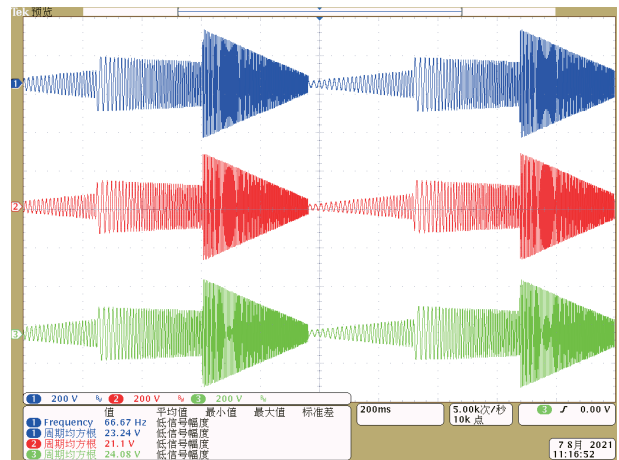


Gradation

Output Voltage Waveform Of Three-phase Power Supply



Three-phase step



Three-phase gradient

Cooperative Customers (Part)

Aerospace & Defense Military Research Institute



China Aerospace



Aerospace science and engineering



Aviation industry



China Air Development



China Electrical Engineering Group



China Shipbuilding Corporation



China Shipbuilding Industry Corporation

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 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)
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 33 CASIC (33 Aerospace Science and Industry Institutes)
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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)
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 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



Collins Aerospace

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)



中国地震局
地壳应力研究所
The Institute of Crustal Dynamics



上海电器科学研究所(集团)有限公司
Shanghai Electrical Apparatus Research Institute (Group) Co., Ltd.



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长春市产品质量监督检验院
Changchun City Product Quality Supervision and Inspection Institute



西安市产品质量监督检验院
Xi'an Supervision & Inspection Institute of Product Quality



杭州市产品质量监督检验院

Cooperative Customers (Part)

Military Academies & Local Universities



High-tech R&D Enterprise





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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:

