

N3600 Series Wide Range Programmable DC Power Supply



Product Introduction

N3600 series is a programmable DC power supply with wide range and medium power. Its output current range is 5A to 1500A, output voltage range is 16V to 1200V, and output power range is 800W to 9kW. With ultra-wide range, N3600 series can be used for multiple purposes. It also adopts modular design, supporting cascade mode, CC/CV/CP mode, SEQ test and external programming. N3600 with wide range, multi-function, high performance and high reliability can be used in new energy, industrial automation, etc.

Application Fields

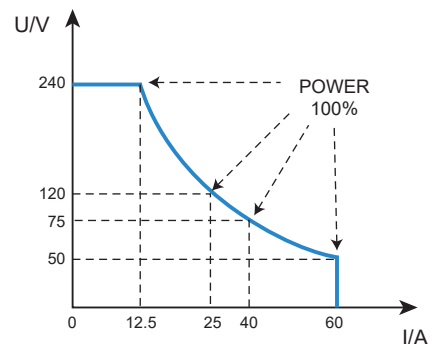
- ▶ New energy fields, such as Li-on battery, photovoltaic, hydrogen fuel, energy storage BMS, etc.
- ▶ Civil fields, such as home appliances, consumer electronics, communications, etc.
- ▶ Laboratory, production line ATE automatic test system
- ▶ Automotive fields, such as BMS, DC-DC, automotive electronics, etc.
- ▶ Testing and powering of aerospace electronics
- ▶ Industrial automation fields, such as controllers, drives, servers, robots, etc.

Main Features

- ▶ Standalone voltage range: 0~1200V
- ▶ Standalone power range: 0~9kW
- ▶ Ultra-wide voltage and current range, one can be used as several
- ▶ External dissipater to protect the power supply and DUT
- ▶ Multiple protections: OCP, OVP, UVP, OTP, OPP, peripheral control and communication error alarm
- ▶ Analog programming (APG) interface, current monitoring interface, remote trigger function to realize complex function control and monitoring
- ▶ Sequence test function(SEQ), up to 100 groups sequence files, up to 100 steps per file
- ▶ Editable rise/fall slew rate
- ▶ UI flat icon design, convenient HMI (human-machine interaction) interface
- ▶ Equipped with 4.3 inch LCD screen to display comprehensive information
- ▶ Standard 19-inch chassis, available for benchtop or rack installation
- ▶ Built-in RS232/LAN communication interface
- ▶ Standalone current range: 0~1500A
- ▶ Multiple devices operation in cascade mode, maximum 90kW
- ▶ CC, CV and CP mode

Ultra-wide range, one can be used as several

N3600 series' maximum power is not the result of Max. voltage multiplied by Max. current. Let's take model N3630-240-060 for example. The Max. power is 3kW while Max. voltage 240V and Max. current 60A. This feature offers N3600 wider application range, compared with traditional power supply.



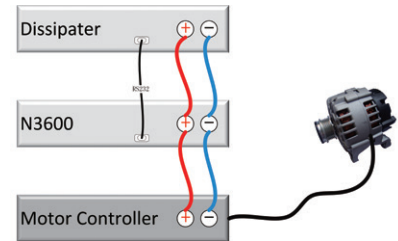
Voltage up to 1200V, making high voltage test more secure

N3600 series supports up to 1200V. In the fields of LED, battery, DC/DC converter and other industries, high voltage is the basic need for power supplies. Besides the above mentioned industries, N3600 series can also be applied for special tests with extremely high voltage requirements.

The safety of high-voltage test has always been a concern of engineers. NGI puts emphasis on details like the safety terminals design to ensure the safety of the test.

External dissipater function

When using N3600 to supply power to inductive loads such as motors, users press ON/OFF button on N3600's front panel to stop power supply. At this time, the motor may return avoltage greater than the setting value of N3600, which is likely to damage N3600 and the motor. Users can connect a load to N3600 as a dissipater. The setting voltage of the load must be an increment higher than the setting voltage of N3600. When the setting voltage of the load is higher than the setting voltage of N3600, the load will not work. If the voltage returned by the motor is exceeding the setting voltage of the load, the load starts to work to protect N3600 and the motor controller.



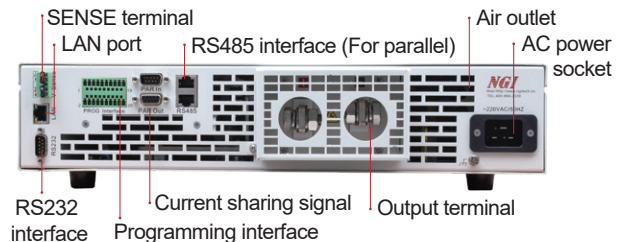
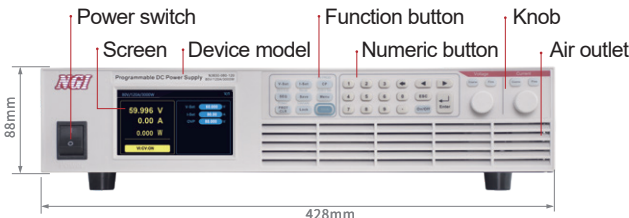
DC Power Supply

Quick Selection Table

| Model | Specification | Size | Model | Specification | Size |
|----------------|-----------------|-----------|----------------|-----------------|-----------|
| N3608-080-060 | 800W/80V/60A | 19inch/2U | N3630-1000-010 | 3000W/1000V/10A | 19inch/2U |
| N3612-080-060 | 1200W/80V/60A | 19inch/2U | N3630-1200-008 | 3000W/1200V/8A | 19inch/2U |
| N3612-240-030 | 1200W/240V/30A | 19inch/2U | N3660-016-1000 | 6000W/16V/1000A | 19inch/4U |
| N3618-016-250 | 1800W/16V/250A | 19inch/2U | N3660-080-240 | 6000W/80V/240A | 19inch/4U |
| N3618-080-120 | 1800W/80V/120A | 19inch/2U | N3660-240-120 | 6000W/240V/120A | 19inch/4U |
| N3618-240-060 | 1800W/240V/60A | 19inch/2U | N3660-360-070 | 6000W/360V/70A | 19inch/4U |
| N3618-360-035 | 1800W/360V/35A | 19inch/2U | N3660-600-040 | 6000W/600V/40A | 19inch/4U |
| N3618-600-005 | 1800W/600V/5A | 19inch/2U | N3660-800-030 | 6000W/800V/30A | 19inch/4U |
| N3618-600-020 | 1800W/600V/20A | 19inch/2U | N3660-1000-020 | 6000W/1000V/20A | 19inch/4U |
| N3618-800-015 | 1800W/800V/15A | 19inch/2U | N3660-1200-016 | 6000W/1200V/16A | 19inch/4U |
| N3618-1000-010 | 1800W/1000V/10A | 19inch/2U | N3690-016-1500 | 9000W/16V/1500A | 19inch/6U |
| N3618-1200-008 | 1800W/1200V/8A | 19inch/2U | N3690-080-360 | 9000W/80V/360A | 19inch/6U |
| N3630-016-500 | 3000W/16V/500A | 19inch/2U | N3690-240-180 | 9000W/240V/180A | 19inch/6U |
| N3630-080-120 | 3000W/80V/120A | 19inch/2U | N3690-360-105 | 9000W/360V/105A | 19inch/6U |
| N3630-240-060 | 3000W/240V/60A | 19inch/2U | N3690-600-060 | 9000W/600V/60A | 19inch/6U |
| N3630-360-035 | 3000W/360V/35A | 19inch/2U | N3690-800-045 | 9000W/800V/45A | 19inch/6U |
| N3630-600-020 | 3000W/600V/20A | 19inch/2U | N3690-1000-030 | 9000W/1000V/30A | 19inch/6U |
| N3630-800-015 | 3000W/800V/15A | 19inch/2U | N3690-1200-024 | 9000W/1200V/24A | 19inch/6U |

*N3600 series support parallel expansion power, please contact NGI for more specifications.

Product Dimension



Technical Data Sheet (1)

| Model | N3608-080-060 | N3612-080-060 | N3612-240-030 |
|-------------------------------|---|---------------|---------------|
| Voltage | 0~80V | 0~80V | 0~240V |
| Current | 0~60A | 0~60A | 0~30A |
| Power | 800W | 1200W | 1200W |
| CV Mode | | | |
| Range | 0~80V | 0~80V | 0~240V |
| Setting Resolution | 1mV | 1mV | 10mV |
| Setting Accuracy (23±5°C) | 0.05%+0.05%F.S. | | |
| CC Mode | | | |
| Range | 0~60A | 0~60A | 0~30A |
| Setting Resolution | 1mA | | |
| Setting Accuracy (23±5°C) | 0.1%+0.1%F.S. | | |
| Voltage Measurement | | | |
| Range | 0~80V | 0~80V | 0~240V |
| Readback Resolution | 1mV | 1mV | 10mV |
| Readback Accuracy (23±5°C) | 0.05%+0.05%F.S. | | |
| Temperature Coefficient | 50ppm/°C | | |
| Current Measurement | | | |
| Range | 0~60A | 0~60A | 0~30A |
| Readback Resolution | 1mA | | |
| Readback Accuracy (23±5°C) | 0.1%+0.1%F.S. | | |
| Temperature Coefficient | 50ppm/°C | | |
| Line Regulation | | | |
| Voltage | ≤0.01% | | |
| Current | ≤0.05% | | |
| Load Regulation | | | |
| Voltage | ≤0.05% | | |
| Current | ≤0.05% | | |
| Dynamic Characteristics | | | |
| Voltage Rise Time (no load) | ≤20ms | ≤20ms | ≤60ms |
| Voltage Rise Time (full load) | ≤500ms | | |
| Voltage Fall Time (no load) | ≤1.2s | ≤1.2s | ≤0.8s |
| Voltage Fall Time (full load) | ≤20ms | ≤20ms | ≤50ms |
| Transient Recovery Time | The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 20ms. | | |
| Output Ripple(20Hz-20MHz) | | | |
| Voltage Ripple Noise (P-P) | ≤300mVp-p | ≤300mVp-p | ≤400mVp-p |
| Others | | | |
| Efficiency | 90% (Typical) | | |
| Interface | RS232/LAN | | |
| Communication Response Time | ≤5ms | | |
| AC Input | Single phase, 220V AC±10%, current ≤16A, frequency 47Hz~63Hz | | |
| Temperature | Operating temperature: 0°C~40°C, storage temperature: -20°C~60°C | | |
| Operating Environment | Altitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa | | |
| Net Weight | Approx. 13.5kg | | |
| Dimension | 2U, 88.0(H)*482.0(W)with handle*550.0(D)mm | | |

Note 1: For other specifications, please contact NGI.

Note 2: All specifications are subject to change without notice.

Technical Data Sheet (2)

| Model | N3618-016-250 | N3618-080-120 | N3618-240-060 | N3618-360-035 |
|-------------------------------|---|---|---------------|---------------|
| Voltage | 0~16V | 0~80V | 0~240V | 0~360V |
| Current | 0~250A | 0~120A | 0~60A | 0~35A |
| Power | 1800W | | | |
| CV Mode | | | | |
| Range | 0~16V | 0~80V | 0~240V | 0~360V |
| Setting Resolution | 1mV | 1mV | 10mV | 10mV |
| Setting Accuracy (23±5°C) | 0.05%+0.05%F.S. | | | |
| CC Mode | | | | |
| Range | 0~250A | 0~120A | 0~60A | 0~35A |
| Setting Resolution | 10mA | 10mA | 1mA | 1mA |
| Setting Accuracy (23±5°C) | 0.1%+0.1%F.S. | | | |
| Voltage Measurement | | | | |
| Range | 0~16V | 0~80V | 0~240V | 0~360V |
| Readback Resolution | 1mV | 1mV | 10mV | 10mV |
| Readback Accuracy (23±5°C) | 0.05%+0.05%F.S. | | | |
| Temperature Coefficient | 50ppm/°C | | | |
| Current Measurement | | | | |
| Range | 0~250A | 0~120A | 0~60A | 0~35A |
| Readback Resolution | 10mA | 10mA | 1mA | 1mA |
| Readback Accuracy (23±5°C) | 0.1%+0.1%F.S. | | | |
| Temperature Coefficient | 50ppm/°C | | | |
| Line Regulation | | | | |
| Voltage | ≤0.01% | | | |
| Current | ≤0.05% | | | |
| Load Regulation | | | | |
| Voltage | ≤0.05% | | | |
| Current | ≤0.05% | | | |
| Dynamic Characteristics | | | | |
| Voltage Rise Time (no load) | ≤10ms | ≤20ms | ≤60ms | ≤80ms |
| Voltage Rise Time (full load) | ≤300ms | ≤500ms | ≤500ms | ≤400ms |
| Voltage Fall Time (no load) | ≤0.6s | ≤1.2s | ≤0.8s | ≤1.2s |
| Voltage Fall Time (full load) | ≤5ms | ≤20ms | ≤50ms | ≤80ms |
| Transient Recovery Time | The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. | The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 20ms. | | |
| Output Ripple(20Hz-20MHz) | | | | |
| Voltage Ripple Noise (P-P) | ≤400mVp-p | ≤400mVp-p | ≤400mVp-p | ≤500mVp-p |
| Others | | | | |
| Efficiency | 90% (Typical) | | | |
| Interface | RS232/LAN | | | |
| Communication Response Time | ≤5ms | | | |
| AC Input | Single phase, 220V AC±10%, current ≤16A, frequency 47Hz~63Hz | | | |
| Temperature | Operating temperature: 0°C~40°C, storage temperature: -20°C~60°C | | | |
| Operating Environment | Altitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa | | | |
| Net Weight | Approx. 14.5kg | Approx. 16.5kg | | |
| Dimension | 2U, 88.0(H)*482.0(W)with handle*550.0(D)mm | | | |

Note 1: For other specifications, please contact NGI.

Note 2: All specifications are subject to change without notice.

Technical Data Sheet (3)

| Model | N3618-600-005 | N3618-600-020 | N3618-800-015 | N3618-1000-010 |
|-------------------------------|---|----------------|---------------|----------------|
| Voltage | 0~600V | 0~600V | 0~800V | 0~1000V |
| Current | 0~5A | 0~20A | 0~15A | 0~10A |
| Power | 1800W | | | |
| CV Mode | | | | |
| Range | 0~600V | 0~600V | 0~800V | 0~1000V |
| Setting Resolution | 10mV | 10mV | 10mV | 100mV |
| Setting Accuracy (23±5°C) | 0.05%+0.05%F.S. | | | |
| CC Mode | | | | |
| Range | 0~5A | 0~20A | 0~15A | 0~10A |
| Setting Resolution | 1mA | 1mA | 1mA | 1mA |
| Setting Accuracy (23±5°C) | 0.1%+0.1%F.S. | | | |
| Voltage Measurement | | | | |
| Range | 0~600V | 0~600V | 0~800V | 0~1000V |
| Readback Resolution | 10mV | 10mV | 10mV | 100mV |
| Readback Accuracy (23±5°C) | 0.05%+0.05%F.S. | | | |
| Temperature Coefficient | 50ppm/°C | | | |
| Current Measurement | | | | |
| Range | 0~5A | 0~20A | 0~15A | 0~10A |
| Readback Resolution | 1mA | 1mA | 1mA | 1mA |
| Readback Accuracy (23±5°C) | 0.1%+0.1%F.S. | | | |
| Temperature Coefficient | 50ppm/°C | | | |
| Line Regulation | | | | |
| Voltage | ≤0.01% | | | |
| Current | ≤0.05% | | | |
| Load Regulation | | | | |
| Voltage | ≤0.05% | | | |
| Current | ≤0.05% | | | |
| Dynamic Characteristics | | | | |
| Voltage Rise Time (no load) | ≤100ms | ≤100ms | ≤150ms | ≤150ms |
| Voltage Rise Time (full load) | ≤400ms | ≤400ms | ≤500ms | ≤500ms |
| Voltage Fall Time (no load) | ≤1.2s | ≤1.2s | ≤0.9s | ≤0.9s |
| Voltage Fall Time (full load) | ≤80ms | ≤80ms | ≤80ms | ≤100ms |
| Transient Recovery Time | The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 20ms. | | | |
| Output Ripple(20Hz-20MHz) | | | | |
| Voltage Ripple Noise (P-P) | ≤600mVp-p | ≤600mVp-p | ≤750mVp-p | ≤750mVp-p |
| Others | | | | |
| Efficiency | 90% (Typical) | | | |
| Interface | RS232/LAN | | | |
| Communication Response Time | ≤5ms | | | |
| AC Input | Single phase, 220V AC±10%, current ≤16A, frequency 47Hz~63Hz | | | |
| Temperature | Operating temperature: 0°C~40°C, storage temperature: -20°C~60°C | | | |
| Operating Environment | Altitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa | | | |
| Net Weight | Approx. 13.5kg | Approx. 16.5kg | | |
| Dimension | 2U, 88.0(H)*482.0(W)with handle*550.0(D)mm | | | |

Note 1: For other specifications, please contact NGI.

Note 2: All specifications are subject to change without notice.

Technical Data Sheet (4)

| Model | N3630-016-500 | N3630-080-120 | N3630-240-060 | N3630-360-035 |
|-------------------------------|---|---|---------------|---------------|
| Voltage | 0~16V | 0~80V | 0~240V | 0~360V |
| Current | 0~500A | 0~120A | 0~60A | 0~35A |
| Power | 3000W | | | |
| CV Mode | | | | |
| Range | 0~16V | 0~80V | 0~240V | 0~360V |
| Setting Resolution | 1mV | 1mV | 10mV | 10mV |
| Setting Accuracy (23±5°C) | 0.05%+0.05%F.S. | | | |
| CC Mode | | | | |
| Range | 0~500A | 0~120A | 0~60A | 0~35A |
| Setting Resolution | 10mA | 10mA | 1mA | 1mA |
| Setting Accuracy (23±5°C) | 0.1%+0.1%F.S. | | | |
| Voltage Measurement | | | | |
| Range | 0~16V | 0~80V | 0~240V | 0~360V |
| Readback Resolution | 1mV | 1mV | 10mV | 10mV |
| Readback Accuracy (23±5°C) | 0.05%+0.05%F.S. | | | |
| Temperature Coefficient | 50ppm/°C | | | |
| Current Measurement | | | | |
| Range | 0~500A | 0~120A | 0~60A | 0~35A |
| Readback Resolution | 10mA | 10mA | 1mA | 1mA |
| Readback Accuracy (23±5°C) | 0.1%+0.1%F.S. | | | |
| Temperature Coefficient | 50ppm/°C | | | |
| Line Regulation | | | | |
| Voltage | ≤0.01% | | | |
| Current | ≤0.05% | | | |
| Load Regulation | | | | |
| Voltage | ≤0.05% | | | |
| Current | ≤0.05% | | | |
| Dynamic Characteristics | | | | |
| Voltage Rise Time (no load) | ≤10ms | ≤20ms | ≤60ms | ≤80ms |
| Voltage Rise Time (full load) | ≤300ms | ≤500ms | ≤500ms | ≤400ms |
| Voltage Fall Time (no load) | ≤0.6s | ≤1.2s | ≤0.8s | ≤1.2s |
| Voltage Fall Time (full load) | ≤5ms | ≤20ms | ≤50ms | ≤80ms |
| Transient Recovery Time | The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. | The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 20ms. | | |
| Output Ripple(20Hz-20MHz) | | | | |
| Voltage Ripple Noise (P-P) | ≤400mVp-p | ≤400mVp-p | ≤400mVp-p | ≤500mVp-p |
| Others | | | | |
| Efficiency | 90% (Typical) | | | |
| Interface | RS232/LAN | | | |
| Communication Response Time | ≤5ms | | | |
| AC Input | Single phase, 220V AC±10%, current ≤16A, frequency 47Hz~63Hz | | | |
| Temperature | Operating temperature: 0°C~40°C, storage temperature: -20°C~60°C | | | |
| Operating Environment | Altitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa | | | |
| Net Weight | Approx. 18.5kg | Approx. 16.5kg | | |
| Dimension | 2U, 88.0(H)*482.0(W)with handle*550.0(D)mm | | | |

Note 1: For other specifications, please contact NGI.

Note 2: All specifications are subject to change without notice.

Technical Data Sheet (5)

| Model | N3630-600-020 | N3630-800-015 | N3630-1000-010 |
|-------------------------------|---|---------------|----------------|
| Voltage | 0~600V | 0~800V | 0~1000V |
| Current | 0~20A | 0~15A | 0~10A |
| Power | 3000W | | |
| CV Mode | | | |
| Range | 0~600V | 0~800V | 0~1000V |
| Setting Resolution | 10mV | 10mV | 100mV |
| Setting Accuracy (23±5°C) | 0.05%+0.05%F.S. | | |
| CC Mode | | | |
| Range | 0~20A | 0~15A | 0~10A |
| Setting Resolution | 1mA | | |
| Setting Accuracy (23±5°C) | 0.1%+0.1%F.S. | | |
| Voltage Measurement | | | |
| Range | 0~600V | 0~800V | 0~1000V |
| Readback Resolution | 10mV | 10mV | 100mV |
| Readback Accuracy (23±5°C) | 0.05%+0.05%F.S. | | |
| Temperature Coefficient | 50ppm/°C | | |
| Current Measurement | | | |
| Range | 0~20A | 0~15A | 0~10A |
| Readback Resolution | 1mA | | |
| Readback Accuracy (23±5°C) | 0.1%+0.1%F.S. | | |
| Temperature Coefficient | 50ppm/°C | | |
| Line Regulation | | | |
| Voltage | ≤0.01% | | |
| Current | ≤0.05% | | |
| Load Regulation | | | |
| Voltage | ≤0.05% | | |
| Current | ≤0.05% | | |
| Dynamic Characteristics | | | |
| Voltage Rise Time (no load) | ≤100ms | ≤150ms | ≤150ms |
| Voltage Rise Time (full load) | ≤400ms | ≤500ms | ≤500ms |
| Voltage Fall Time (no load) | ≤1.2s | ≤0.9s | ≤0.9s |
| Voltage Fall Time (full load) | ≤80ms | ≤80ms | ≤100ms |
| Transient Recovery Time | The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 20ms. | | |
| Output Ripple(20Hz-20MHz) | | | |
| Voltage Ripple Noise (P-P) | ≤600mVp-p | ≤750mVp-p | ≤750mVp-p |
| Others | | | |
| Efficiency | 90% (Typical) | | |
| Interface | RS232/LAN | | |
| Communication Response Time | ≤5ms | | |
| AC Input | Single phase, 220V AC±10%, current ≤16A, frequency 47Hz~63Hz | | |
| Temperature | Operating temperature: 0°C~40°C, storage temperature: -20°C~60°C | | |
| Operating Environment | Altitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa | | |
| Net Weight | Approx. 16.5kg | | |
| Dimension | 2U, 88.0(H)*482.0(W)with handle*550.0(D)mm | | |

Note 1: For other specifications, please contact NGI.

Note 2: All specifications are subject to change without notice.

Technical Data Sheet (6)

| Model | N3660-016-1000 | N3660-080-240 | N3690-016-1500 | N3690-080-360 |
|----------------------------------|---|---|---|---|
| Voltage | 0~16V | 0~80V | 0~16V | 0~80V |
| Current | 0~1000A | 0~240A | 0~1500A | 0~360A |
| Power | 6000W | 6000W | 9000W | 9000W |
| CV Mode | | | | |
| Range | 0~16V | 0~80V | 0~16V | 0~80V |
| Setting Resolution | 1mV | | | |
| Setting Accuracy (23±5°C) | 0.05%+0.05%F.S. | | | |
| CC Mode | | | | |
| Range | 0~1000A | 0~240A | 0~1500A | 0~360A |
| Setting Resolution | 100mA | 10mA | 100mA | 10mA |
| Setting Accuracy (23±5°C) | 0.1%+0.1%F.S. | | | |
| Voltage Measurement | | | | |
| Range | 0~16V | 0~80V | 0~16V | 0~80V |
| Readback Resolution | 1mV | | | |
| Readback Accuracy (23±5°C) | 0.05%+0.05%F.S. | | | |
| Temperature Coefficient | 50ppm/°C | | | |
| Current Measurement | | | | |
| Range | 0~1000A | 0~240A | 0~1500A | 0~360A |
| Readback Resolution | 100mA | 10mA | 100mA | 10mA |
| Readback Accuracy (23±5°C) | 0.1%+0.1%F.S. | | | |
| Temperature Coefficient | 50ppm/°C | | | |
| Line Regulation | | | | |
| Voltage | ≤0.01% | | | |
| Current | ≤0.05% | | | |
| Load Regulation | | | | |
| Voltage | ≤0.05% | | | |
| Current | ≤0.05% | | | |
| Dynamic Characteristics | | | | |
| Voltage Rise Time (no load) | ≤10ms | ≤20ms | ≤10ms | ≤20ms |
| Voltage Rise Time (full load) | ≤300ms | ≤500ms | ≤300ms | ≤500ms |
| Voltage Fall Time (no load) | ≤0.6s | ≤1.2s | ≤0.6s | ≤1.2s |
| Voltage Fall Time (full load) | ≤5ms | ≤20ms | ≤5ms | ≤20ms |
| Transient Recovery Time | The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. | The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 20ms. | The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. | The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 20ms. |
| Output Ripple(20Hz-20MHz) | | | | |
| Voltage Ripple Noise (P-P) | ≤400mVp-p | | | |
| Others | | | | |
| Efficiency | 90% (Typical) | | | |
| Interface | RS232/LAN | | | |
| Communication Response Time | ≤5ms | | | |
| AC Input | Single phase, 220V AC±10%, current ≤32A, frequency 47Hz~63Hz | | Three phase, 380V AC±10%, current ≤16A, frequency 47Hz~63Hz | |
| Temperature | Operating temperature: 0°C~40°C, storage temperature: -20°C~60°C | | | |
| Operating Environment | Altitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa | | | |
| Net Weight | Approx. 36kg | Approx. 30kg | Approx. 50kg | Approx. 42kg |
| Dimension | 4U, 175.0(H)*482.0(W)with handle*600.0/580.0(D)mm | | 6U, 264.0(H)*482.0(W)with handle*600.0/580.0(D)mm | |

Note 1: For other specifications, please contact NGI.

Note 2: All specifications are subject to change without notice.