

N3600 Series Wide Range Programmable DC Power Supply





Product Introduction

N3600 series is a wide-range programmable DC power supply. Its output current range is 5A to 1500A, output voltage range is 16V to 1200V, and output power range is 800W to 9kW. It supports 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

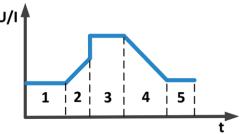
- New energy fields, such as Li-on battery, photovoltaic, hydrogen fuel, energy storage BMS, etc.
- Civil fields, such as home appliances, consumer electronics, communications, etc.
- Laboratory, production line ATE automatic test system
- Automotive fields, such as BMS, DC-DC, automotive electronics,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

Main Features

- ▶ Voltage range: 16V~1200V
- Current range: 5A~1500A
- ► Power range: 800W~9kW
- Multiple devices operation in cascade mode
- CC, CV and CP mode
- ▶ Sequence test function(SEQ), up to 100 groups sequence files, up to 100 steps per file
- ► Editable rise/fall slew rate
- Convenient HMI (human-machine interaction) interface on LCD screen
- Equipped with LCD screen, numeric buttons and knob to support local operation
- External dissipater to protect the power supply and DUT
- Standard 19-inch chassis, available for benchtop or rack installation
- ▶ Built-in RS232/LAN communication interface
- Multiple protections: OCP, OVP, UVP, OTP, OPP, peripheral control communication error alarm
- Analog programming (APG) interface, current monitoring interface, remote trigger function to realize complex function control and monitoring

SEQ function

SEQ function provides setting of output voltage, output current, voltage slew rate, current slew rate and dwell time for single step.





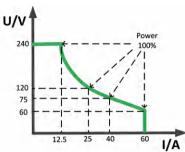
Voltage up to 1200V, making high voltage test more secure

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.

Wide range for saving purchase cost

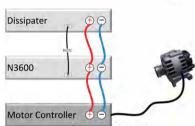
N3600 series' maximum power is not the result of Max. voltage multiplied by Max. current. Let's take model N3630-240-060 for example. The Max. power is 3kW while Max. voltage 240V and Max. current 60A. This feature offers N3600 wider application range, compared with traditional power supply.



External dissipater function

When using N3600 to supply power to inductive loads such as motors, users press ON/ OFF button on N3600's front panelto 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.

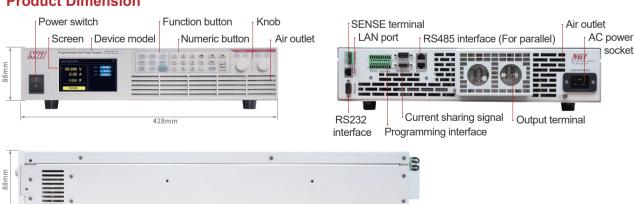
550mm



Quick Selection Table

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

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 M | ode | | | | |
| Range | 0~80V | 0~240V | | | | |
| Setting Resolution | 1mV | 1mV | 10mV | | | |
| Setting Accuracy (23±5℃) | | 0.05%+0.05%F.S. | | | | |
| CC Mode | | | | | | |
| Range | 0~60A 0~60A 0~30A | | | | | |
| Setting Resolution | | 1mA | | | | |
| Setting Accuracy (23±5℃) | | 0.1%+0.1%F.S. | | | | |
| | Voltage Mea | asurement | | | | |
| 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/℃ | | | | |
| | Current Mea | asurement | | | | |
| Range | 0~60A | 0~60A | 0~30A | | | |
| Readback Resolution | | 1mA | | | | |
| Readback Accuracy (23±5°C) | | 0.1%+0.1%F.S. | | | | |
| Temperature Coefficient | | 50ppm/℃ | | | | |
| | Line Reg | gulation | | | | |
| Voltage | | ≤0.01% | | | | |
| Current | | ≤0.05% | | | | |
| | Load Reg | gulation | | | | |
| Voltage | | ≤0.05% | | | | |
| Current | | ≤0.05% | | | | |
| | Dynamic Cha | aracteristics | | | | |
| 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 | ransient 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(2 | 20Hz-20MHz) | | | | |
| Voltage Ripple Noise (P-P) | ≤300mVp-p | ≤300mVp-p | ≤400mVp-p | | | |
| | Oth | ers | | | | |
| Efficiency | 90%(Typical) | | | | | |
| Interface | terface RS232/LAN | | | | | |
| Communication Response Time | ne ≤5ms | | | | | |
| AC Input | Single phase, 220V AC | C±10%, current ≤16A, frequen | cy 47Hz~63Hz | | | |
| Temperature | Operating temperature: 0℃~40℃, storage temperature: -20℃~60℃ | | | | | |
| Operating Environment | | | | | | |
| 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)

| Maralal | N0040 040 050 | NI0040 000 400 | N10040 040 000 | N0040 000 005 | |
|--|---|-----------------------|----------------|---------------|--|
| 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 | | 180 | 0W | | |
| | CV Mode | | | | |
| Range | 0~16V | 0~80V | 0~240V | 0~360V | |
| Setting Resolution | 1mV | 1mV | 10mV | 10mV | |
| Setting Accuracy (23±5℃) 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℃) | | 0.1%+0 | .1%F.S. | | |
| | Voltag | e 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 | | 50pp | m/℃ | | |
| | Curre | nt 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 | | 50pp | om/℃ | | |
| | Lin | e Regulation | | | |
| Voltage | | ≤0.0 |)1% | | |
| Current | | ≤0.0 | | | |
| | Loa | ad Regulation | | | |
| Voltage | | ≤0.0 | | | |
| Current | ≤0.05% | | | | |
| | Dyna | amic Characteristics | | | |
| Voltage Rise Time (no load) | ≤10ms | ≤20ms | ≤60ms | ≤80ms | |
| Voltage Rise Time (full load) | | ≤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 | | | | |
| | voltage is less than 80ms. | it Ripple(20Hz-20MHz) | | | |
| Voltage Ripple Noise (P-P) | ≤400mVp-p | ≤400mVp-p | ≤400mVp-p | ≤500mVp-p | |
| voltage rapple riolse (1 -1) | = -100 111 v p-p | Others | _ 1001111 P P | | |
| Efficiency | | | | | |
| Interface | RS232/LAN | | | | |
| Communication Response Time | | ≤5n | | | |
| AC Input | Single phase | | | z~63Hz | |
| Temperature | | | | | |
| 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 | | | | | |
| 25, 55.5(1) 152.5(1) 111.111.111.115 | | | | | |

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 | | | 0~800√ 0~15A | | |
| | 0~5A | 0~20A | | 0~10A | |
| Power | | CV Mode | UVV | | |
| Range | | | | | |
| | 0~600V | 0~600V | | 0~1000V | |
| Setting Resolution | 10mV | 10mV | 10mV | 100mV | |
| Setting Accuracy (23±5°C) 0.05%+0.05%F.S. | | | | | |
| Dongo | 0.54 | CC Mode | 0.454 | 0.404 | |
| Range | 0~5A | 0~20A | 0~15A 1mA | 0~10A | |
| Setting Resolution | 1mA | 1mA | | 1mA | |
| Setting Accuracy (23±5℃) | \/- 4 | 0.1%+0 | .1%F.S. | | |
| D | • | ge Measurement | 0.000/ | | |
| Range | 0~600V | 0~600V | 0~800V | 0~1000V | |
| Readback Resolution | 10mV | 10mV | 10mV | 100mV | |
| Readback Accuracy (23±5°C) | | 0.05%+0 | | | |
| Temperature Coefficient | | 50pp | m/℃ | | |
| | | nt Measurement | | | |
| Range | 0~5A | 0~20A | 0~15A | 0~10A | |
| Readback Resolution | 1mA | 1mA | 1mA | 1mA | |
| Readback Accuracy (23±5°C) | | 0.1%+0 | | | |
| Temperature Coefficient | | 50pp | m/℃ | | |
| | Lin | e Regulation | | | |
| Voltage | | ≤0.0 | 1% | | |
| Current | | ≤0.0 | 5% | | |
| | Lo | ad Regulation | | | |
| Voltage | | ≤0.0 |)5% | | |
| Current | | ≤0.0 |)5% | | |
| | Dyna | amic 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 | ng from 10% to 90% and output v | oltage recovering within 0.5% of r | 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 | 2/LAN | | |
| Communication Response Time | | ≤5n | ns | | |
| AC Input | Single phase | e, 220V AC±10%, curre | ent ≤16A, frequency 47 | ′Hz~63Hz | |
| Temperature | Operating temperature: 0℃~40℃, storage temperature: -20℃~60℃ | | | | |
| Operating Environment Altitude <2000m, relative humidity: 5%~90%RH(non-condensing), | | | | | |
| Net Weight | Approx. 13.5kg | | Approx. 16.5kg | | |
| Dimension 2U, 88.0(H)*482.0(W)with handle*550.0(D)mm | | | | m | |
| | | | | | |

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 | | | | | |
| Powei | CV Mode | | | | | |
| Range | 0~16V | 0~80V | 0~240V | 0~360V | | |
| Setting Resolution | 1mV | 1mV | 10mV | 10mV | | |
| Setting Accuracy (23±5°C) | 111111 | | - | 101114 | | |
| County (2010 c) | etting 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℃) | | 0.1%+0 | .1%F.S. | | | |
| 3 3(1112) | Voltag | ge 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 | | 50pp | | | | |
| • | Curre | nt 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 | | 50pp | om/℃ | | | |
| | Lin | e Regulation | | | | |
| Voltage | | ≤0.0 | 11% | | | |
| Current | | ≤0.0 | 15% | | | |
| | Loa | ad Regulation | | | | |
| Voltage | ≤0.05% | | | | | |
| Voltage | rent ≤0.05% | | | | | |
| Voltage Current | | | 95% | | | |
| Current | Dyna | ≤0.0 amic Characteristics | 95% | | | |
| Current Voltage Rise Time (no load) | ≤10ms | amic Characteristics ≤20ms | ≤60ms | ≤80ms | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) | ≤10ms | amic Characteristics | | ≤400ms | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) Voltage Fall Time (no load) | ≤10ms ≤300ms ≤0.6s | ≤20ms ≤500ms ≤1.2s | ≤60ms ≤500ms ≤0.8s | | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) | ≤10ms ≤300ms ≤0.6s ≤5ms | amic Characteristics ≤20ms ≤500ms | ≤60ms ≤500ms | ≤400ms | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) Voltage Fall Time (no load) Voltage Fall Time (full load) | ≤10ms ≤300ms ≤0.6s ≤5ms The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated | ≤20ms ≤500ms ≤1.2s ≤20ms | ≤60ms ≤500ms ≤0.8s | ≤400ms ≤1.2s ≤80ms | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) Voltage Fall Time (no load) | ≤10ms ≤300ms ≤0.6s ≤5ms The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. | ≤20ms ≤500ms ≤1.2s ≤20ms The recovery time of load varying voltage is less than 20ms. | ≤60ms ≤500ms ≤0.8s ≤50ms | ≤400ms ≤1.2s ≤80ms | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) Voltage Fall Time (no load) Voltage Fall Time (full load) Transient Recovery Time | ≤10ms ≤300ms ≤0.6s ≤5ms The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. Output | amic Characteristics ≤20ms ≤500ms ≤1.2s ≤20ms The recovery time of load varying voltage is less than 20ms. Ripple(20Hz-20MHz | ≤60ms ≤500ms ≤0.8s ≤50ms ≤foms g from 10% to 90% and output voltage | ≤400ms ≤1.2s ≤80ms e recovering within 0.5% of rated | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) Voltage Fall Time (no load) Voltage Fall Time (full load) | ≤10ms ≤300ms ≤0.6s ≤5ms The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. | amic Characteristics ≤20ms ≤500ms ≤1.2s ≤20ms The recovery time of load varying voltage is less than 20ms. Ripple(20Hz-20MHz ≤400mVp-p | ≤60ms ≤500ms ≤0.8s ≤50ms | ≤400ms ≤1.2s ≤80ms | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) Voltage Fall Time (no load) Voltage Fall Time (full load) Transient Recovery Time Voltage Ripple Noise (P-P) | ≤10ms ≤300ms ≤0.6s ≤5ms The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. Output | amic Characteristics ≤20ms ≤500ms ≤1.2s ≤20ms The recovery time of load varying voltage is less than 20ms. Ripple(20Hz-20MHz ≤400mVp-p Others | ≤60ms ≤500ms ≤0.8s ≤50ms √50ms √a from 10% to 90% and output voltage √2) ≤400mVp-p | ≤400ms ≤1.2s ≤80ms e recovering within 0.5% of rated | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) Voltage Fall Time (no load) Voltage Fall Time (full load) Transient Recovery Time Voltage Ripple Noise (P-P) Efficiency | ≤10ms ≤300ms ≤0.6s ≤5ms The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. Output | amic Characteristics ≤20ms ≤500ms ≤1.2s ≤20ms The recovery time of load varying voltage is less than 20ms. Ripple(20Hz-20MHz ≤400mVp-p Others 90% (Ty | ≤60ms ≤500ms ≤0.8s ≤50ms ≤from 10% to 90% and output voltage Z) ≤400mVp-p | ≤400ms ≤1.2s ≤80ms e recovering within 0.5% of rated | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) Voltage Fall Time (no load) Voltage Fall Time (full load) Transient Recovery Time Voltage Ripple Noise (P-P) | ≤10ms ≤300ms ≤0.6s ≤5ms The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. Output | amic Characteristics ≤20ms ≤500ms ≤1.2s ≤20ms The recovery time of load varying voltage is less than 20ms. Ripple(20Hz-20MHz ≤400mVp-p Others | ≤60ms ≤500ms ≤0.8s ≤50ms ≤form 10% to 90% and output voltage Z) ≤400mVp-p //pical) | ≤400ms ≤1.2s ≤80ms e recovering within 0.5% of rated | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) Voltage Fall Time (no load) Voltage Fall Time (full load) Transient Recovery Time Voltage Ripple Noise (P-P) Efficiency Interface | ≤10ms ≤300ms ≤0.6s ≤5ms The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. Output ≤400mVp-p | amic Characteristics ≤20ms ≤500ms ≤1.2s ≤20ms The recovery time of load varying voltage is less than 20ms. Ripple(20Hz-20MHz ≤400mVp-p Others 90% (Ty RS232/ | ≤60ms ≤500ms ≤0.8s ≤50ms √50ms √1 from 10% to 90% and output voltage Z) ≤400mVp-p //pical) LAN Is | ≤400ms ≤1.2s ≤80ms e recovering within 0.5% of rated ≤500mVp-p | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) Voltage Fall Time (no load) Voltage Fall Time (full load) Transient Recovery Time Voltage Ripple Noise (P-P) Efficiency Interface Communication Response Time | ≤10ms ≤300ms ≤0.6s ≤5ms The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. Output ≤400mVp-p | amic Characteristics ≤20ms ≤500ms ≤1.2s ≤20ms The recovery time of load varying voltage is less than 20ms. Ripple(20Hz-20MHz ≤400mVp-p Others 90% (Ty RS232// ≤5m 220V AC±10%, curr | ≤60ms ≤500ms ≤0.8s ≤50ms √50ms √1 from 10% to 90% and output voltage Z) ≤400mVp-p //pical) LAN //pis //prent ≤16A, frequency | ≤400ms ≤1.2s ≤80ms e recovering within 0.5% of rated ≤500mVp-p | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) Voltage Fall Time (no load) Voltage Fall Time (full load) Transient Recovery Time Voltage Ripple Noise (P-P) Efficiency Interface Communication Response Time AC Input | ≤10ms ≤300ms ≤0.6s ≤5ms The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. Output ≤400mVp-p Single phase Operating tem | amic Characteristics ≤20ms ≤500ms ≤1.2s ≤20ms The recovery time of load varying voltage is less than 20ms. Ripple(20Hz-20MHz ≤400mVp-p Others 90% (Ty RS232/ | ≤60ms ≤500ms ≤0.8s ≤50ms if from 10% to 90% and output voltage z) ≤400mVp-p //pical) LAN is rent ≤16A, frequency storage temperature | ≤400ms ≤1.2s ≤80ms e recovering within 0.5% of rated ≤500mVp-p y 47Hz~63Hz e: -20°C~60°C | | |
| Current Voltage Rise Time (no load) Voltage Rise Time (full load) Voltage Fall Time (no load) Voltage Fall Time (full load) Transient Recovery Time Voltage Ripple Noise (P-P) Efficiency Interface Communication Response Time AC Input Temperature | ≤10ms ≤300ms ≤0.6s ≤5ms The recovery time of load varying from 10% to 90% and output voltage recovering within 0.5% of rated voltage is less than 80ms. Output ≤400mVp-p Single phase Operating tem | smic Characteristics ≤20ms ≤500ms ≤1.2s ≤20ms The recovery time of load varying voltage is less than 20ms. Ripple(20Hz-20MHz ≤400mVp-p Others 90% (Ty RS232// ≤5m 220V AC±10%, curreperature: 0°C~40°C, | ≤60ms ≤500ms ≤0.8s ≤50ms if from 10% to 90% and output voltage z) ≤400mVp-p //pical) LAN is rent ≤16A, frequency storage temperature | ≤400ms ≤1.2s ≤80ms e recovering within 0.5% of rated ≤500mVp-p y 47Hz~63Hz e: -20°C~60°C | | |

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℃) | - | 0.05%+0.05%F.S. | | | | |
| | CC Mode | | | | | |
| Range | 0~20A 0~15A 0~10A | | | | | |
| Setting Resolution | | 1mA | | | | |
| Setting Accuracy (23±5℃) | | 0.1%+0.1%F.S. | | | | |
| | Voltage Mea | asurement | | | | |
| 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/℃ | | | | |
| | Current Mea | surement | | | | |
| Range | 0~20A | 0~15A | 0~10A | | | |
| Readback Resolution | | 1mA | | | | |
| Readback Accuracy (23±5°C) | | 0.1%+0.1%F.S. | | | | |
| Temperature Coefficient | | 50ppm/℃ | | | | |
| | Line Reg | ulation | | | | |
| Voltage | | ≤0.01% | | | | |
| Current | | ≤0.05% | | | | |
| | Load Reg | julation | | | | |
| Voltage | | ≤0.05% | | | | |
| Current | | ≤0.05% | | | | |
| | Dynamic Cha | racteristics | | | | |
| 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 | | ≤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 | | | |
| | Othe | ers | | | | |
| Efficiency | 90%(Typical) | | | | | |
| Interface | | RS232/LAN | | | | |
| Communication Response Time | me ≤5ms | | | | | |
| AC Input | <u>*</u> : | C±10%, current ≤16A, frequen | • | | | |
| Temperature | | | | | | |
| Operating Environment | | | | | | |
| Net Weight Approx. 16.5kg | | | | | | |
| Dimension | 2U, 88.0(H)*48 | 82.0(W)with handle*550.0(D)r | 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 | N2660 090 240 | N3600 016 1500 | N3600 000 360 | |
|---|---|--|--|--|--|
| | | 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 | | 1m | ١V | | |
| Setting Accuracy (23±5℃) 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℃) | | 0.1%+0 | .1%F.S. | | |
| | Voltaç | ge Measurement | | | |
| Range | 0~16V | 0~80V | 0~16V | 0~80V | |
| Readback Resolution | | 1m | īV | | |
| Readback Accuracy (23±5°C) | | 0.05%+0 | .05%F.S. | | |
| Temperature Coefficient | | 50pp | m/°C | | |
| | Curre | nt 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 | | 50pp | | | |
| Tomporataro coemicione | Lin | e Regulation | | | |
| Voltage | | ≤0.0 | 1% | | |
| Current | | ≤0.0 | | | |
| Current | 10 | ad Regulation | | | |
| Voltage | | <u>aa regalation</u> ≤0.0 | 5% | | |
| Current | ≤0.05% | | | | |
| Current | Dyna | mic Characteristics | 570 | | |
| Voltage Rise Time (no load) | - | ≤20ms | ≤10ms | ≤20ms | |
| , , | ≤10ms ≤300ms | ≤500ms | ≤300ms | - | |
| Voltage Rise Time (full load) Voltage Fall Time (no load) | | | | ≤500ms | |
| , , | ≤0.6s | ≤1.2s | ≤0.6s | ≤1.2s ≤20ms | |
| Voltage Fall Time (full load) | ≤5ms The recovery time of load varying | ≤20ms The recovery time of load varying | ≤5ms The recovery time of load varying | The recovery time of load varying | |
| Transient Recovery Time | from 10% to 90% and output voltage recovering within 0.5% of | from 10% to 90% and output voltage recovering within 0.5% of | from 10% to 90% and output voltage recovering within 0.5% of | from 10% to 90% and output voltage recovering within 0.5% of | |
| | rated voltage is less than 80ms. | rated voltage is less than 20ms. | rated voltage is less than 80ms. | rated voltage is less than 20ms. | |
| Valta na Dinala N. i. (D.D.) | — Output | Ripple(20Hz-20MH | , | | |
| Voltage Ripple Noise (P-P) | | ≤400m | іvp-р | | |
| Others Efficiency 90% (Typical) | | | | | |
| Interface | 71 / | | | | |
| Communication Response Time | | | | | |
| AC Input | | | | | |
| Temperature | Single phase, 220V AC±10%, current ≤32A, frequency 47Hz~63Hz Three phase, 380V AC±10%, current ≤16A, frequency 47Hz~63Hz 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 | | handle*600.0/580.0(D)mm | | n handle*600.0/580.0(D)mm | |
| Diffiction | 40, 175.0(H) 462.0(VV)WITH | nanule 000.0/360.0(D)MM | 00, 204.0(11) 402.0(11) WILI | וווווו (ע)יייטטייטטייט וווווו | |

Note 1: For other specifications, please contact NGI.

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