N36200 Series Wide Range Programmable DC Power Supply

Product Introduction

N36200 series is a wide range programmable DC power supply with rackmount design, high performance, high power density, integrating 5000W in 1U height and 19-inch width chassis, up to 10kW in 2U width chassis, covering a wide range of test applications of the DUT. The design of N36200 brings comfortable experience with space-saving in both desktop use and integrated system. N36200 series supports fast dynamic response, high accuracy output, multi test functions, to meet the needs of different application scenarios.

Application Fields

- Electronic Equipment R&D and Validation, Production Testing
- ATE (Automatic Test Equipment) Systems
- Automotive Electronics
- Aerospace and Defense Electronics
- DC/DC Power Supplies
- Semiconductor Power Devices
- Wire Harness Connectors
- Robotics
- Hydrogen Energy
- Superconductivity

Main Features

- Ultra compact size, high power density, integrating 10kW in 2U height and 19 inch width chassis
- Wide range of output, one can be used as several
- Voltage accuracy: 0.03%+0.02%F.S.
- Adjustable voltage/current slew rate for different requirements
- CC&CV priority function, suitable for all types of DUT
- Support SEQ test, battery charging test, internal resistance simulation, etc.
- Large LCD screen to display test data clearly
- Support Modbus-RTU/SCPI/CANopen communication protocol
- Fast dynamic response time,voltage rise&fall time ≤10ms[1]
- Current accuracy: 0.1%+0.1%F.S.
- Support car waveform simulation test
- 19 inch standard size, standalone or integration available
- Support LAN/RS232/RS485/CAN communication control
- External analog programming control (optional) [2]

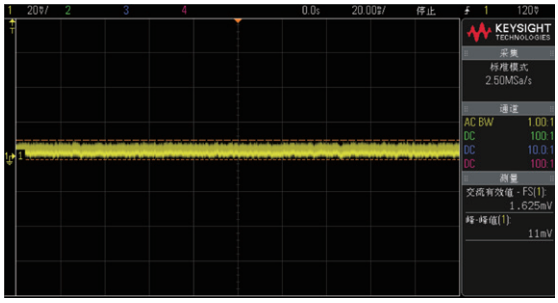
Note[1]: Vary by different voltage level; refer to the parameter table.
Note[2]: The 1U height and half 19 inch width model doesn't support this function at voltages above 80V.

Ultra compact size and high power density to save cost and space

N36200 series DC power supply adopts systematic heat dissipation design, with optimisation of device selection, main circuit topology, system heat dissipation, for example integrating 2500W in 1U height and half 19-inch width chassis. With wide range of output, its voltage up to 20V, current up to 275 A. N36200 series is designed with small size and high power density to meet multiple test scenarios, to save the purchasing cost and occupied space.

Low output ripple noise

Ripple is a critical parameter for DC power supplies. Leveraging extensive experience in power supply R&D, NGI has optimized component selection and implemented advanced switching power supply technologies. These advancements not only enhance the responsiveness of the power supply output but also significantly reduce output ripple and noise, thereby ensuring superior output power quality.

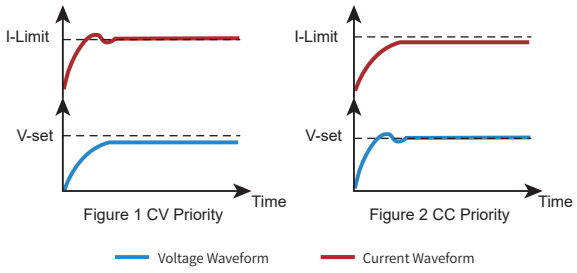


CC&CV priority function

N36200 has the function of selecting priority of voltage-control loop or current-control loop, which enables N36200 to adopt the optimal test mode for different DUTs, and thus protect the DUT.

As shown in figure one, when the DUT requires reducing voltage overshoot during test, such as supplying power to a low-voltage processor or FPGA core, voltage priority mode should be selected to obtain fast and smooth rise voltage.

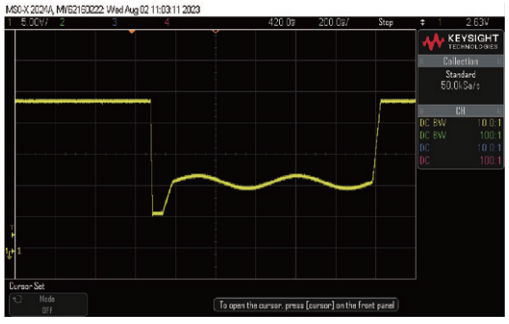
As shown in figure two, when the DUT requires reducing current overshoot during test, or when the DUT is with low impedance, such as battery charging scenario, current priority mode should be selected to obtain fast and smooth rise current.

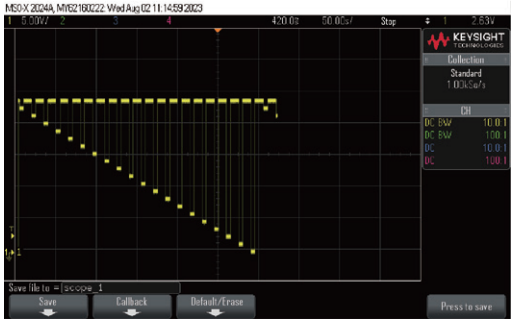


Car waveform simulation for electronics performance test

With the application of automotive electronics increasing every year, car manufacturers have formulated relevant test specifications, which focus on testing the immunity of electronic equipment to interference under certain scenarios of power transients, so that when designing automotive electronic hardware, it is important to set protections to avoid the effects of extreme situations.

N36200 series can be standard with car waveform simulation, including car start-up waveform, car short-time voltage drop waveform, load dump waveform, car voltage reset test Waveform etc., meeting ISO16750-2, LV124 and other standards, used for electronics electric performance test.



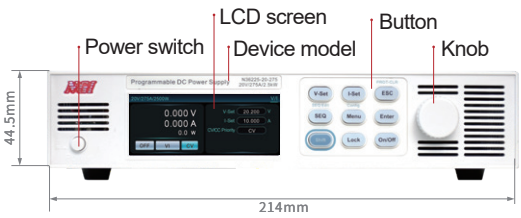


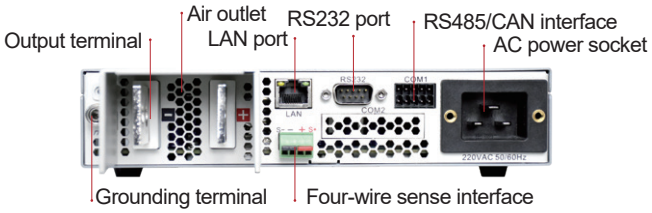
Quick Selection

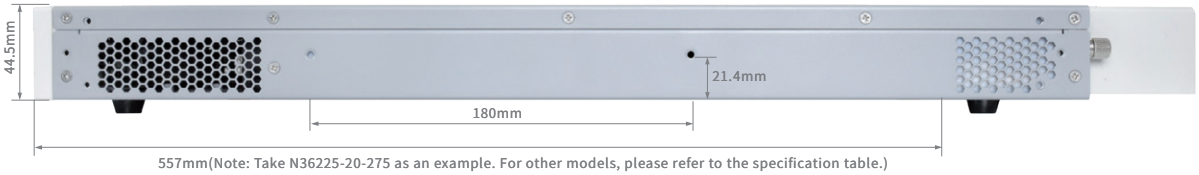
Model	Specification	Size
N36225-20-275	20V/275A/2500W	1U ½ 19inch
N36235-20-350	20V/350A/3500W	1U 19inch
N36250-20-550	20V/550A/5000W	1U 19inch
N362100-20-1100	20V/1100A/10000W	2U 19inch
N36205-40-50	40V/50A/500W	1U ½ 19inch
N36209-40-50	40V/50A/900W	1U ½ 19inch
N36216-40-80	40V/80A/1600W	1U ½ 19inch
N36225-40-135	40V/135A/2500W	1U ½ 19inch
N36250-40-275	40V/275A/5000W	1U 19inch
N362100-40-550	40V/550A/10000W	2U 19inch
N36205-80-25	80V/25A/500W	1U ½ 19inch
N36209-80-25	80V/25A/900W	1U ½ 19inch
N36212-80-42	80V/42A/1200W	1U ½ 19inch
N36216-80-42	80V/42A/1600W	1U ½ 19inch

Model	Specification	Size
N36210-80-60	80V/60A/1000W	1U ½ 19inch
N36212-80-60	80V/60A/1200W	1U ½ 19inch
N36216-80-80	80V/80A/1600W	1U ½ 19inch
N36225-80-80	80V/80A/2500W	1U ½ 19inch
N36232-80-160	80V/160A/3200W	1U 19inch
N36250-80-160	80V/160A/5000W	1U 19inch
N36216-360-20	360V/20A/1600W	1U ½ 19inch
N36225-360-20	360V/20A/2500W	1U ½ 19inch
N36216-750-04	750V/4A/1600W	1U ½ 19inch
N36225-750-04	750V/4A/2500W	1U ½ 19inch
N36210-1500-01	1500V/1A/1000W	1U ½ 19inch
N36216-1500-02	1500V/2A/1600W	1U 19inch
N36232-1500-04	1500V/4A/3200W	1U 19inch

Product Dimension







557mm(Note: Take N36225-20-275 as an example. For other models, please refer to the specification table.)

Technical Data Sheet(1)

Model		N36225-20-275	N36235-20-350	N36250-20-550	N362100-20-1100
Rated Value	Voltage	0~20V			
	Current	0~275A	0~350A	0~550A	0~1100A
	Power	2500W	0~3500W	0~5000W	0~10000W
Channels		1CH			
CV Mode					
Range		0~20V			
Setting Resolution		1mV			
Setting Accuracy (23±5°C)		≤0.03%+0.02%F.S.			
Voltage Ripple(20Hz-20MHz)		≤5mVrms; ≤65mVp-p			
CC Mode					
Range		0~275A	0~350A	0~550A	0~1100A
Setting Resolution		10mA			100mA
Setting Accuracy (23±5°C)		≤0.1%+0.1%F.S.			
Current Ripple(20Hz-5MHz)		≤100mArms	≤150mArms	≤200mArms	≤300mArms
		≤500mAp-p	≤800mAp-p	≤1000mAp-p	≤2000mAp-p
CP Mode					
Range		2500W	3500W	5000W	10000W
Setting Resolution		0.1W			
Setting Accuracy (23±5°C)		0.5%F.S.			
Voltage Measurement					
Range		0~20V			
Readback Resolution		1mV			
Readback Accuracy (23±5°C)		≤0.03%+0.02%F.S.			
Current Measurement					
Range		0~275A	0~350A	0~550A	0~1100A
Readback Resolution		10mA			100mA
Readback Accuracy (23±5°C)		≤0.1%+0.1%F.S.			
Line Regulation					
Voltage		<0.02%F.S.	Current		<0.05%F.S.
Load Regulation					
Voltage		<0.03%F.S.	Current		<0.05%F.S.
Dynamic Characteristics					
Voltage Rise Time(no load)		≤10ms	Current Rise Time(no load)		≤10ms
Voltage Rise Time(full load)		≤10ms	Current Rise Time(full load)		≤10ms
Voltage Fall Time(no load)		≤300ms	Current Fall Time(no load)		≤10ms
Voltage Fall Time(full load)		≤10ms	Current Fall Time(full load)		≤10ms
Transient Recovery Time		The output voltage recovering within 0.5% of the rated output voltage value（10%~90% load)≤5ms			
Others					
Isolation(Output to Ground)		500V DC			
Max. Efficiency		92%			
Power Factor		0.99			
Interface		LAN/RS232/RS485/CAN			
Communication Response Time		≤5ms			
AC Input		220V AC±10%,47Hz~63Hz,≤16A	220V AC±10%,47Hz~63Hz,≤20A	220V AC±10%,47Hz~63Hz,≤30A	340VAC~480VAC,47Hz~63Hz,≤28A
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. 7.5kg	Approx. 15kg	Approx. 15kg	Approx. 30kg
Dimension		44.5(H)*214.0(W)*557.0(D)mm, with output shield	44.5(H)*428.0(W)*662.0(D)mm, with output shield	44.5(H)*428.0(W)*662.0(D)mm, with output shield	88.0(H)*428.0(W)*688.0(D)mm, with output shield

Note 1: For other specifications, please contact NGI.

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

Technical Data Sheet(2)

Model		N36205-40-50	N36209-40-50	N36216-40-80
Rated Value	Voltage	0~40V		
	Current	0~50A	0~50A	0~80A
	Power	500W	900W	1600W
Channels		1CH		
CV Mode				
Range		0~40V		
Setting Resolution		1mV		
Setting Accuracy (23±5°C)		≤0.03%+0.02%F.S.		
Voltage Ripple(20Hz-20MHz)		≤40mVp-p	≤40mVp-p	≤80mVp-p
CC Mode				
Range		0~50A	0~50A	0~80A
Setting Resolution		1mA		
Setting Accuracy (23±5°C)		≤0.1%+0.1%F.S.		
Current Ripple(20Hz-5MHz)		≤50mArms		
CP Mode				
Range		500W	900W	1600W
Setting Resolution		0.01W		
Setting Accuracy (23±5°C)		0.5%F.S.		
Voltage Measurement				
Range		0~40V		
Readback Resolution		1mV		
Readback Accuracy (23±5°C)		≤0.03%+0.02%F.S.		
Current Measurement				
Range		0~50A	0~50A	0~80A
Readback Resolution		1mA		
Readback Accuracy (23±5°C)		≤0.1%+0.1%F.S.		
Line Regulation				
Voltage		<0.02%F.S.	Current	<0.05%F.S.
Load Regulation				
Voltage		<0.03%F.S.	Current	<0.05%F.S.
Dynamic Characteristics				
Voltage Rise Time(no load)		≤10ms		
Voltage Rise Time(full load)		≤10ms		
Voltage Fall Time(no load)		≤25ms		
Voltage Fall Time(full load)		≤10ms		
Transient Recovery Time		The output voltage recovering within 0.5% of the rated output voltage value（10%~90% load)≤2ms		
Others				
Isolation(Output to Ground)		500V DC		
Max. Efficiency		91.5%		
Power Factor		0.99		
Interface		LAN/RS232/RS485/CAN		
Communication Response Time		≤5ms		
AC Input		220V AC±10%,47Hz~63Hz,≤4A	220V AC±10%,47Hz~63Hz,≤6A	220V AC±10%,47Hz~63Hz,≤10A
Temperature		Operating temperature: 0°C~40°C, storage temperature: -20°C~70°C		
Operating Environment		Altitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa		
Net Weight		Approx. 4.3kg		Approx. 7.5kg
Dimension		44.5(H)*214.0(W)*390.0(D)mm, with output shield		44.5(H)*214.0(W)*557.0(D)mm, with output shield

Note 1: For other specifications, please contact NGI.

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

Technical Data Sheet(3)

Model		N36225-40-135	N36250-40-275	N362100-40-550
Rated Value	Voltage	0~40V		
	Current	0~135A	0~275A	0~550A
	Power	2500W	5000W	10000W
Channels		1CH		
CV Mode				
Range		0~40V		
Setting Resolution		1mV		
Setting Accuracy (23±5°C)		≤0.03%+0.02%F.S.		
Voltage Ripple(20Hz-20MHz)		≤80mVp-p		
CC Mode				
Range		0~135A	0~275A	0~550A
Setting Resolution		10mA		
Setting Accuracy (23±5°C)		≤0.1%+0.1%F.S.		
Current Ripple(20Hz-5MHz)		≤100mArms	≤200mArms	≤400mArms
CP Mode				
Range		2500W	5000W	10000W
Setting Resolution		0.01W	0.1W	0.1W
Setting Accuracy (23±5°C)		0.5%F.S.		
Voltage Measurement				
Range		0~40V		
Readback Resolution		1mV		
Readback Accuracy (23±5°C)		≤0.03%+0.02%F.S.		
Current Measurement				
Range		0~135A	0~275A	0~550A
Readback Resolution		10mA		
Readback Accuracy (23±5°C)		≤0.1%+0.1%F.S.		
Line Regulation				
Voltage		<0.02%F.S.	Current	<0.05%F.S.
Load Regulation				
Voltage		<0.03%F.S.	Current	<0.05%F.S.
Dynamic Characteristics				
Voltage Rise Time(no load)		≤10ms		≤20ms
Voltage Rise Time(full load)		≤10ms		≤20ms
Voltage Fall Time(no load)		≤200ms		≤300ms
Voltage Fall Time(full load)		≤10ms		≤20ms
Transient Recovery Time		The output voltage recovering within 0.5% of the rated output voltage value（10%~90% load)≤5ms		
Others				
Isolation(Output to Ground)		500V DC		
Max. Efficiency		91.5%		
Power Factor		0.99		
Interface		LAN/RS232/RS485/CAN		
Communication Response Time		≤5ms		
AC Input		220V AC±10%,47Hz~63Hz,≤16A	220V AC±10%,47Hz~63Hz,≤30A	340V AC～480V AC,47Hz~63Hz,≤28A
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. 7.5kg	Approx. 15kg	Approx. 30kg
Dimension		44.5(H)*214.0(W)*557.0(D)mm, with output shield	44.5(H)*428.0(W)*662.0(D)mm, with output shield	88.0(H)*428.0(W)*688.0(D)mm, with output shield

Note 1: For other specifications, please contact NGI.
Note 2: All specifications are subject to change without notice.

Technical Data Sheet(4)

Model		N36205-80-25	N36209-80-25	N36212-80-42	N36216-80-42
Rated Value	Voltage	0~80V			
	Current	0~25A	0~25A	0~42A	0~42A
	Power	500W	900W	1200W	1600W
Channels		1CH			
CV Mode					
Range		0~80V			
Setting Resolution		1mV			
Setting Accuracy (23±5°C)		≤0.03%+0.02%F.S.			
Voltage Ripple(20Hz-20MHz)		≤80mVp-p			
CC Mode					
Range		0~25A	0~25A	0~42A	0~42A
Setting Resolution		1mA			
Setting Accuracy (23±5°C)		≤0.1%+0.1%F.S.			
Current Ripple(20Hz-5MHz)		≤30mArms		≤50mArms	
CP Mode					
Range		500W	900W	1200W	1600W
Setting Resolution		0.01W		0.1W	
Setting Accuracy (23±5°C)		0.5%F.S.			
Voltage Measurement					
Range		0~80V			
Readback Resolution		1mV			
Readback Accuracy (23±5°C)		≤0.03%+0.02%F.S.			
Current Measurement					
Range		0~25A	0~25A	0~42A	0~42A
Readback Resolution		1mA			
Readback Accuracy (23±5°C)		≤0.1%+0.1%F.S.			
Line Regulation					
Voltage		<0.02%F.S.	Current	<0.05%F.S.	
Load Regulation					
Voltage		<0.03%F.S.	Current	<0.05%F.S.	
Dynamic Characteristics					
Voltage Rise Time(no load)		≤10ms		≤10ms	
Voltage Rise Time(full load)		≤10ms		≤10ms	
Voltage Fall Time(no load)		≤25ms		≤30ms	
Voltage Fall Time(full load)		≤10ms		≤10ms	
Transient Recovery Time		The output voltage recovering within 0.5% of the rated output voltage value（10%~90% load)≤2ms			
Others					
Isolation(Output to Ground)		500V DC			
Max. Efficiency		91.5%			
Power Factor		0.99			
Interface		LAN/RS232/RS485/CAN			
Communication Response Time		≤5ms			
AC Input		220V AC±10%,47Hz~63Hz,≤4A	220V AC±10%,47Hz~63Hz,≤6A	220V AC±10%,47Hz~63Hz,≤8A	220V AC±10%,47Hz~63Hz,≤10A
Temperature		Operating temperature: 0°C~40°C, storage temperature: -20°C~70°C			
Operating Environment		Altitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa			
Net Weight		Approx. 4.3kg			
Dimension		44.5(H)*214.0(W)*390.0(D)mm, with output shield		44.5(H)*214.0(W)*440.0(D)mm, with output shield	

Note 1: For other specifications, please contact NGI.

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

Technical Data Sheet(5)

Model		N36210-80-60	N36212-80-60	N36216-80-80	N36225-80-80
Rated Value	Voltage	0~80V			
	Current	0~60A	0~60A	0~80A	0~80A
	Power	1000W	1200W	1600W	2500W
Channels		1CH			
CV Mode					
Range		0~80V			
Setting Resolution		1mV			
Setting Accuracy (23±5°C)		≤0.03%+0.02%F.S.			
Voltage Ripple(20Hz-20MHz)		≤10mVrms			
		≤50mVp-p	≤50mVp-p	≤50mVp-p	≤60mVp-p
CC Mode					
Range		0~60A	0~60A	0~80A	0~80A
Setting Resolution		1mA			
Setting Accuracy (23±5°C)		≤0.1%+0.1%F.S.			
Current Ripple(20Hz-5MHz)		≤60mArms			
CP Mode					
Range		1000W	1200W	1600W	2500W
Setting Resolution		0.1W			
Setting Accuracy (23±5°C)		0.5%F.S.			
Voltage Measurement					
Range		0~80V			
Readback Resolution		1mV			
Readback Accuracy (23±5°C)		≤0.03%+0.02%F.S.			
Current Measurement					
Range		0~60A	0~60A	0~80A	0~80A
Readback Resolution		1mA			
Readback Accuracy (23±5°C)		≤0.1%+0.1%F.S.			
Line Regulation					
Voltage		<0.02%F.S.	Current		<0.03%F.S.
Load Regulation					
Voltage		<0.03%F.S.	Current		<0.05%F.S.
Dynamic Characteristics					
Voltage Rise Time(no load)		≤10ms			
Voltage Rise Time(full load)		≤10ms			
Voltage Fall Time(no load)		≤20ms			
Voltage Fall Time(full load)		≤10ms			
Transient Recovery Time		The output voltage recovering within 0.75% of the rated output voltage value（10%~90% load)≤1ms			
Others					
Isolation(Output to Ground)		500V DC			
Max. Efficiency		91%	90%	92%	92%
Power Factor		0.99			
Interface		LAN/RS232/RS485/CAN			
Communication Response Time		≤5ms			
AC Input		220V AC±10%,47Hz~63Hz,≤7A	220V AC±10%,47Hz~63Hz,≤8A	220V AC±10%,47Hz~63Hz,≤10A	220V AC±10%,47Hz~63Hz,≤16A
Temperature		Operating temperature: 0°C~40°C, storage temperature: -20°C~70°C			
Operating Environment		Altitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa			
Net Weight		Approx. 5kg			
Dimension		44.5(H)*214.0(W)*556.2(D)mm, with output shield			

Note 1: For other specifications, please contact NGI.

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

Technical Data Sheet(6)

Model		N36232-80-160	N36250-80-160
Rated Value	Voltage	0~80V	
	Current	0~160A	
	Power	0~3200W	0~5000W
Channels		1CH	
CV Mode			
Range		0~80V	
Setting Resolution		1mV	
Setting Accuracy (23±5°C)		≤0.03%+0.02%F.S.	
Voltage Ripple(20Hz-20MHz)		≤10mVrms	
		≤65mVp-p	
CC Mode			
Range		0~160A	
Setting Resolution		10mA	
Setting Accuracy (23±5°C)		≤0.1%+0.1%F.S.	
CP Mode			
Range		0~3200W	0~5000W
Setting Resolution		0.1W	
Setting Accuracy (23±5°C)		0.5%F.S.	
Voltage Measurement			
Range		0~80V	
Readback Resolution		1mV	
Readback Accuracy (23±5°C)		≤0.03%+0.02%F.S.	
Current Measurement			
Range		0~160A	
Readback Resolution		10mA	
Readback Accuracy (23±5°C)		≤0.1%+0.1%F.S.	
Line Regulation			
Voltage		<0.02%F.S.	Current <0.05%F.S.
Load Regulation			
Voltage		<0.03%F.S.	Current <0.05%F.S.
Dynamic Characteristics			
Voltage Rise Time(no load)		≤10ms	
Voltage Rise Time(full load)		≤10ms	
Voltage Fall Time(no load)		≤20ms	
Voltage Fall Time(full load)		≤10ms	
Transient Recovery Time		The output voltage recovering within 0.75% of the rated output voltage value（10%~90% load)≤1ms	
Others			
Isolation(Output to Ground)		500V DC	
Max. Efficiency		91.5%	
Power Factor		0.99	
Interface		LAN/RS232/RS485/CAN	
Communication Response Time		≤5ms	
AC Input		220V AC±10%,47Hz~63Hz,≤20A	220V AC±10%,47Hz~63Hz,≤30A
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. 12kg	
Dimension		44.5(H)*428.0(W)*611.2(D)mm, with output shield	

Note 1: For other specifications, please contact NGI.

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

Technical Data Sheet(7)

Model		N36216-360-20	N36225-360-20
Rated Value	Voltage	0~360V	
	Current	0~20A	
	Power	0~1600W	0~2500W
Channels		1CH	
CV Mode			
Range		0~360V	
Setting Resolution		10mV	
Setting Accuracy (23±5°C)		≤0.03%+0.02%F.S.	
Voltage Ripple(20Hz-20MHz)		≤50mVrms	
		≤300mVp-p	
CC Mode			
Range		0~20A	
Setting Resolution		1mA	
Setting Accuracy (23±5°C)		≤0.1%+0.1%F.S.	
Current Ripple(20Hz-5MHz)		≤30mArms	
CP Mode			
Range		0~1600W	0~2500W
Setting Resolution		0.1W	
Setting Accuracy (23±5°C)		0.5%F.S.	
Voltage Measurement			
Range		0~360V	
Readback Resolution		10mV	
Readback Accuracy (23±5°C)		≤0.03%+0.02%F.S.	
Current Measurement			
Range		0~20A	
Readback Resolution		1mA	
Readback Accuracy (23±5°C)		≤0.1%+0.1%F.S.	
Line Regulation			
Voltage		<0.02%F.S.	Current <0.05%F.S.
Load Regulation			
Voltage		<0.03%F.S.	Current <0.05%F.S.
Dynamic Characteristics			
Voltage Rise Time(no load)		≤10ms	
Voltage Rise Time(full load)		≤10ms	
Voltage Fall Time(no load)		≤25ms	
Voltage Fall Time(full load)		≤10ms	
Transient Recovery Time		The output voltage recovering within 0.5% of the rated output voltage value（10%~90% load)≤2ms	
Others			
Isolation(Output to Ground)		1000V DC	
Max. Efficiency		93%	
Power Factor		0.99	
Interface		LAN/RS232/RS485/CAN	
Communication Response Time		≤5ms	
AC Input		220V AC±10%,47Hz~63Hz,≤10A	220V AC±10%,47Hz~63Hz,≤16A
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. 6kg	
Dimension		44.5(H)*214.0(W)*540.2(D)mm, with output shield	

Note 1: For other specifications, please contact NGI.

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

Technical Data Sheet(8)

Model		N36216-750-04	N36225-750-04
Rated Value	Voltage	0~750V	
	Current	0~4A	
	Power	0~1600W	0~2500W
Channels		1CH	
CV Mode			
Range		0~750V	
Setting Resolution		10mV	
Setting Accuracy (23±5°C)		≤0.03%+0.02%F.S.	
Voltage Ripple(20Hz-20MHz)		≤300mVp-p	
CC Mode			
Range		0~4A	
Setting Resolution		0.1mA	
Setting Accuracy (23±5°C)		≤0.1%+0.1%F.S.	
Current Ripple(20Hz-5MHz)		≤4mArms	
CP Mode			
Range		0~1600W	0~2500W
Setting Resolution		0.1W	
Setting Accuracy (23±5°C)		0.5%F.S.	
Voltage Measurement			
Range		0~750V	
Readback Resolution		10mV	
Readback Accuracy (23±5°C)		≤0.03%+0.02%F.S.	
Current Measurement			
Range		0~4A	
Readback Resolution		0.1mA	
Readback Accuracy (23±5°C)		≤0.1%+0.1%F.S.	
Line Regulation			
Voltage		<0.02%F.S.	Current <0.01%F.S.+2mA
Load Regulation			
Voltage		<0.03%F.S.	Current <0.05%F.S.+5mA
Dynamic Characteristics			
Voltage Rise Time(no load)		≤100ms	
Voltage Rise Time(full load)		≤100ms	
Voltage Fall Time(no load)		≤2000ms	
Voltage Fall Time(full load)		≤100ms	
Transient Recovery Time		The output voltage recovering within 0.5% of the rated output voltage value（10%~90% load)≤2ms	
Others			
Isolation(Output to Ground)		1000V DC	
Max. Efficiency		92%	92% 93%
Power Factor		0.99	
Interface		LAN/RS232/RS485/CAN	
Communication Response Time		≤5ms	
AC Input		220V AC±10%,47Hz~63Hz,≤10A	220V AC±10%,47Hz~63Hz,≤10A 220V AC±10%,47Hz~63Hz,≤16A
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. 5kg	
Dimension		44.5(H)*214.0(W)*540.2(D)mm, with output shield	

Note 1: For other specifications, please contact NGI.

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

Technical Data Sheet(9)

Model		N36210-1500-01	N36216-1500-02	N36232-1500-04
Rated Value	Voltage	0~1500V		
	Current	0~1A	0~2A	0~4A
	Power	0~1000W	0~1600W	0~3200W
Channels		1CH		
CV Mode				
Range		0~1500V		
Setting Resolution		10mV		
Setting Accuracy (23±5°C)		≤0.03%+0.02%F.S.		
Voltage Ripple(20Hz-20MHz)		≤1000mVp-p		
CC Mode				
Range		0~1A	0~2A	0~4A
Setting Resolution		1mA		
Setting Accuracy (23±5°C)		≤0.1%+0.1%F.S.		
Current Ripple(20Hz-5MHz)		≤1mArms	≤2mArms	≤4mArms
CP Mode				
Range		0~1000W	0~1600W	0~3200W
Setting Resolution		0.1W		
Setting Accuracy (23±5°C)		0.5%F.S.		
Voltage Measurement				
Range		0~1500V		
Readback Resolution		10mV		
Readback Accuracy (23±5°C)		≤0.03%+0.02%F.S.		
Current Measurement				
Range		0~1A	0~2A	0~4A
Readback Resolution		1mA		
Readback Accuracy (23±5°C)		≤0.1%+0.1%F.S.		
Line Regulation				
Voltage		<0.02%F.S.	Current	＜0.01%F.S.+2mA
Load Regulation				
Voltage		<0.03%F.S.		
Current		<0.05%F.S.+2mA	<0.05%F.S.+5mA	
Dynamic Characteristics				
Voltage Rise Time(no load)		≤100ms		
Voltage Rise Time(full load)		≤100ms		
Voltage Fall Time(no load)		≤1000ms		
Voltage Fall Time(full load)		≤100ms		
Transient Recovery Time		Voltage drop depth ≤ 0.3%, the output voltage recovering within 0.2% of the rated output voltage value（10%~90% load)≤2ms		
Others				
Isolation(Output to Ground)		2000V DC		
Max. Efficiency		91%	92%	
Power Factor		0.99		
Interface		LAN/RS232/RS485/CAN		
Communication Response Time		<5ms		
AC Input		220V AC±10%,47Hz~63Hz,≤6A	220V AC±10%,47Hz~63Hz,≤10A	220V AC±10%,47Hz~63Hz,≤20A
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. 5kg	Approx. 10kg	
Dimension		44.5(H)*214.0(W)*540.2(D)mm, with output shield	44.5(H)*428.0(W)*540.2(D)mm, with output shield	

Note 1: For other specifications, please contact NGI.
Note 2: All specifications are subject to change without notice.