

N36100 Series Wide Range Programmable DC Power Supply



Product Introduction

N36100 series is a DC power supply with ultra compact size, high performance and high power density. The 1U height and half 19-inch width design brings comfortable experience with space-saving in both standalone and integrated cabinet. Maximum output power of N36100 is 900W. In view of test characteristics of different fields such as laboratory test, system integration test and large-scale production line test, N36100 series adopts wide range designs to meet the needs of different application scenarios.

Application Fields

- R&D laboratory
- Automotive and avionics
- ATE test system

Small DC motor Industrial DC/DC converter

External analog programming control

Modular design, convenient for multi channels combination

- **Main Features**
- 1U height + half 19-inch width, wide range and high power density
- Maximum output power: 900W Remote sense
- Multiple protections: OVP, OCP, OPP, OTP and short circuit
- CC&CV priority function
- Supporting battery charging test and internal resistance simulation function
- SEQ test function
- Multiple communication interfaces: LAN/CAN/RS232/RS485
- Auto run function after startup, editable run delay time

Ultra-compact size, high performance

N36100 series is only 1U and half 19 inch. However, its maximum output power is up to 900W. It has multiple test functions, multiple protection and wide range, which enables N36100 to be used in different applications.

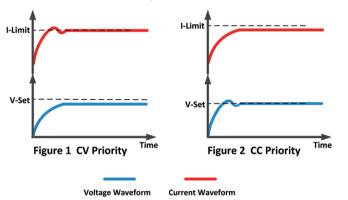






CC&CV priority function

N36100 has the function of selecting priority of voltage-control loop or current-control loop, which enables N36100 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.

OLED screen

OLED screen has the advantages of compact size, low power consumption, high brightness and high luminous efficiency.



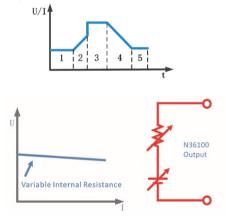
Internal resistance simulation

Product Dimension

N36100 series allows settings of voltage and internal resistance value. According to the corresponding output current, the output voltage is decreased with the set resistance. In this case, the internal resistance of secondary battery, fuel cell and supercapacitor can be simply simulated.

SEQ test function

N36100's SEQ function supports up to 200 steps. It allows settings of output voltage, output current and dwell time for single step.



Output terminal OLED screen **PROG-Interface** LAN port Power switch Device model Button Knob (optional) AC power socket Air outlet RS232 interface RS485/CAN Grounding 214mm interface Four-wire sense interface terminal









Technical Data Sheet(1)

Model	N36150-40-50	N36150-80-25	N36150-150-12	N36150-300-8			
Voltage	40V	80V	150V	300V			
Current	50A	25A	12A	8A			
Power	500W						
Channels	1CH						
Setting Resolution-Voltage	1mV 10mV						
Setting Resolution-Current	1mA						
Setting Accuracy-Voltage (23±5℃)	0.05%+0.05%F.S.						
Setting Accuracy-Current (23±5℃)	0.1%+0.1%F.S.						
Setting Temperature Coefficient	50ppm/℃						
Readback Resolution-Voltage	1mV 10mV						
Readback Resolution-Current	1mA						
Readback Accuracy-Voltage (23±5℃)	0.05%+0.05%F.S.						
Readback Accuracy-Current (23±5℃)	0.1%+0.1%F.S.						
Readback Temperature Coefficient	50ppm/℃						
Long-term Stability	≤50ppm/1000h						
Voltage Ripple Noise (20Hz-20MHz)	≤100mVp-p	≤150mVp-p	≤150mVp-p	≤200mVp-p			
Dynamic Characteristics							
Voltage Rise Time (no load) (10%-90%F.S. Variation Time)	≤100ms						
Voltage Rise Time (full load) (10%-90%F.S. Variation Time)	≤300ms	≤300ms	≤500ms	≤600ms			
Voltage Fall Time (no load) (90%-10%F.S. Variation Time)	≤200ms	≤200ms	≤400ms	≤500ms			
Voltage Fall Time (full load) (90%-10%F.S. Variation Time)	≤50ms	≤50ms	≤50ms	≤100ms			
Transient Recovery Time	≤20ms						
Line Regulation-Voltage	≤0.05%						
Line Regulation-Current	≤0.1%						
Load Regulation-Voltage	≤0.05%						
Load Regulation-Current	≤0.1%						
Others							
Isolation (Output to Ground)	1000V DC						
Communication Response Time	≤10ms						
Interface	LAN/RS232/RS485/CAN						
AC Input	Single phase, 220V AC±10%, frequency 47Hz~63Hz						
Temperature	Operating temperature: 0℃~40℃, storage temperature: -20℃~60℃						
Operating Environment	Altitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa						
Net Weight	Approx. 3kg						
	1U, 43.00(H)*214.00(W)*420.00(D)mm						

Note 1: For other specifications, please contact NGI.

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





Technical Data Sheet(2)

Durrent50A25A12A8APower $900W$ $1CH$ $900W$ $Channels$ $1CH$ $1CH$ Setting Resolution-Voltage $1mV$ $10mV$ $10mV$ Setting Resolution-Current $1mA$ $0.05\%+0.05\%F.S.$ $0.05\%+0.05\%F.S.$ Setting Accuracy-Voltage (23±5°C) $0.15\%+0.05\%F.S.$ $0.05\%+0.05\%F.S.$ Setting Accuracy-Current (23±5°C) $0.15\%+0.05\%F.S.$ $0.05\%+0.05\%F.S.$ Seadback Resolution-Voltage $1mV$ $10mV$ Readback Resolution-Voltage (23±5°C) $0.05\%+0.05\%F.S.$ $0.05\%+0.05\%F.S.$ Readback Accuracy-Voltage (23±5°C) $0.1\%+0.1\%F.S.$ $0.1\%+0.1\%F.S.$ Readback Accuracy-Voltage (23±5°C) $0.1\%+0.1\%F.S.$ $0.1\%+0.1\%F.S.$ Readback Accuracy-Current (23±5°C) $0.1\%+0.1\%F.S.$ $0.1\%+0.1\%F.S.$ Readback Accuracy-Current (23±5°C) $0.1\%+0.1\%F.S.$ $0.1\%+0.1\%F.S.$ Readback Accuracy-Current (23±5°C) $0.1\%+0.1\%F.S.$ $0.1\%+0.1\%F.S.$ Readback Temperature Coefficient $50pm/1000h$ $500mVp-p$ Indeg Rese Time (no load) $510mVp-p$ $$150mVp-p$ $$200mVp-p$ Ioflage Rese Time (no load) $$200ms$ $$200ms$ \$500ms\$600msIoflage Rese Time (no load) $$200ms$ \$200ms\$500ms\$600msIoflage Rese Time (no load) $$200ms$ \$200ms\$50ms\$100mSIoflage Rese Time (no load)\$200ms\$50ms\$50ms\$100msIoflage Rese Time (no load)\$200ms\$200ms\$50ms\$100msIoflage Rese Time (no load)\$2	Model	N36190-40-50	N36190-80-25	N36190-150-12	N36190-300-8			
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90%:10%F.S. Variation Time) S00ms S00ms S00ms S100ms Fransient Recovery Time ≤20ms Line Regulation-Voltage ≤0.05% Line Regulation-Current ≤0.1% Load Regulation-Voltage ≤0.05% Load Regulation-Voltage ≤0.05% Load Regulation-Current ≤0.1% Load Regulation-Current ≤0.1% Solation (Output to Ground) 1000V DC Communication Response Time ≤10ms Interface LAN/RS232/RS485/CAN AC Input Single phase, 220V AC±10%, frequency 47Hz~63Hz Femperature Operating temperature: 0°C~40°C, storage temperature: -20°C~60°C Operating Environment Attitude <2000m, relative humidity: 5%-90%/RH(non-condensing), atmospheric pressure: 80-110kPa	Voltage Fall Time (no load) (90%-10%F.S. Variation Time)	≤200ms	≤200ms	≤400ms	≤500ms			
Line Regulation-Voltage≤0.05%Line Regulation-Current≤0.1%Load Regulation-Voltage≤0.05%Load Regulation-Current≤0.1%Load Regulation-Current≤0.1%Solation (Output to Ground)1000V DCCommunication Response Time≤10msInterfaceLAN/RS232/RS485/CANAC InputSingle phase, 220V AC±10%, frequency 47Hz~63HzCoperating EnvironmentAltitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa	Voltage Fall Time (full load) (90%-10%F.S. Variation Time)	≤50ms	≤50ms	≤50ms	≤100ms			
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Load Regulation-Voltage ≤0.05% Load Regulation-Current ≤0.1% Others solation (Output to Ground) 1000V DC Communication Response Time ≤10ms nterface LAN/RS232/RS485/CAN AC Input Single phase, 220V AC±10%, frequency 47Hz~63Hz Femperature Operating temperature: 0°C~40°C, storage temperature: -20°C~60°C Operating Environment Attitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa	Line Regulation-Voltage	≤0.05%						
Load Regulation-Current ≤0.1% Others solation (Output to Ground) 1000V DC Communication Response Time ≤10ms Interface LAN/RS232/RS485/CAN AC Input Single phase, 220V AC±10%, frequency 47Hz~63Hz Femperature Operating temperature: 0°C~40°C, storage temperature: -20°C~60°C Operating Environment Attitude <2000m, relative humidity: 5%-90%RH(non-condensing), atmospheric pressure: 80-110kPa	Line Regulation-Current	≤0.1%						
Others solation (Output to Ground) 1000V DC Communication Response Time ≤10ms Interface LAN/RS232/RS485/CAN AC Input Single phase, 220V AC±10%, frequency 47Hz~63Hz Temperature Operating temperature: 0°C~40°C, storage temperature: -20°C~60°C Operating Environment Attitude <2000m, relative humidity: 5%-90%RH(non-condensing), atmospheric pressure: 80-110kPa	Load Regulation-Voltage	≤0.05%						
solation (Output to Ground)1000V DCCommunication Response Time≤10msInterfaceLAN/RS232/RS485/CANAC InputSingle phase, 220V AC±10%, frequency 47Hz~63HzFemperatureOperating temperature: 0°C~40°C, storage temperature: -20°C~60°COperating EnvironmentAltitude <2000m, relative humidity: 5%-90%RH(non-condensing), atmospheric pressure: 80-110kPa	Load Regulation-Current	≤0.1%						
Communication Response Time ≤10ms Interface LAN/RS232/RS485/CAN AC Input Single phase, 220V AC±10%, 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	Others							
Interface LAN/RS232/RS485/CAN AC Input Single phase, 220V AC±10%, frequency 47Hz~63Hz Temperature Operating temperature: 0°C~40°C, storage temperature: -20°C~60°C Operating Environment Attitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa	Isolation (Output to Ground)	1000V DC						
AC Input Single phase, 220V AC±10%, 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	Communication Response Time	≤10ms						
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	Interface	LAN/RS232/RS485/CAN						
Operating Environment Attitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa Net Weight Approx. 3kg	AC Input	Single phase, 220V AC±10%, frequency 47Hz~63Hz						
Net Weight Approx. 3kg	Temperature	Operating temperature: 0° C~40 $^{\circ}$ C, storage temperature: -20 $^{\circ}$ C~60 $^{\circ}$ C						
	Operating Environment	Altitude <2000m, relative humidity: 5%~90%RH(non-condensing), atmospheric pressure: 80~110kPa						
Dimension 1U, 43.00(H)*214.00(W)*420.00(D)mm	Net Weight	Approx. 3kg						
	Dimension	1U, 43.00(H)*214.00(W)*420.00(D)mm						

Note 1: For other specifications, please contact NGI.

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

