N62300 Series Portable DC Electronic Load

Product Introduction

The N62300 series is a compact, portable DC electronic load. Each channel supports up to 200W of power, with an input voltage range of 80V and a current capacity of up to 30A. Featuring dual-range design for voltage, current, resistance, and power, this series meets the testing requirements of a wide range of devices. The N62300 series supports four operating modes: CC, CV, CR, and CP. Additional features include SEQ test, OCP/OVP/OPP, and standard interfaces such as LAN and RS485. This product is ideal for applications in consumer electronics, production lines, and bench repair.

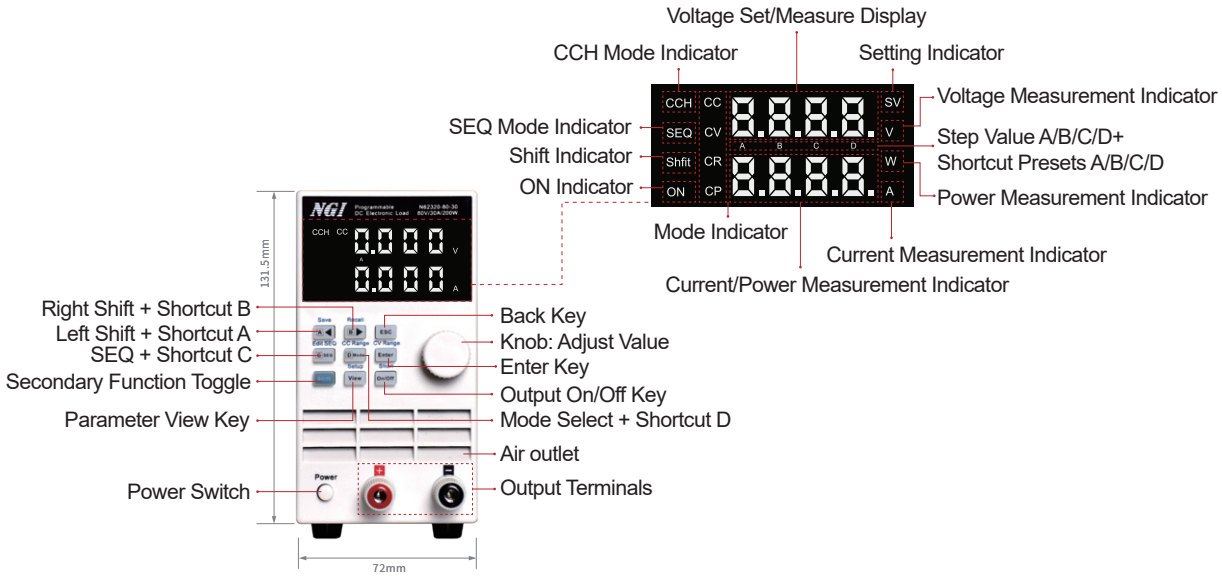
Application Fields

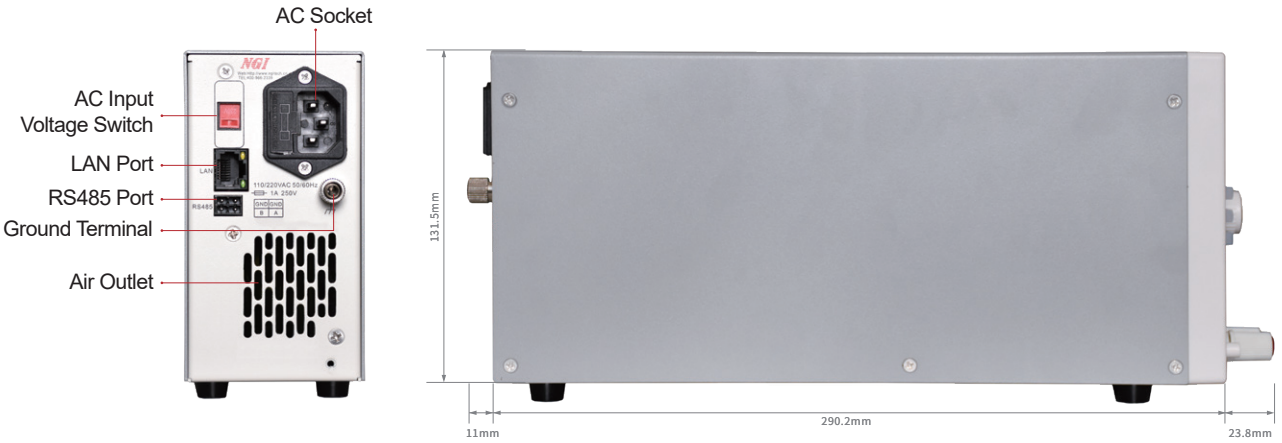
- Testing of AC/DC power supplies, DC/DC converters, and other low-power power modules
- Testing of consumer electronics such as smartphones and mobile devices
- Testing of low-power batteries for drones, portable devices, and similar applications

Main Features

- Voltage: 0~80V, Current: 0~30A, Power: 0~200W
- Voltage Accuracy: 0.05% + 0.1% F.S.; Current Accuracy: 0.1% + 0.1% F.S.
- Portable design with optional 4U standard rack mounting for up to 6 load channels
- Supports OVP , OCP , OPP, and OTP
- Features Von/Voff functionality and simulated short-circuit capability
- Dual-range design for voltage, current, resistance, and power, ensuring broad measurement coverage
- Communication Interfaces: RS485 and LAN (for debugging purposes)

Product Dimension




AC Socket
AC Input
Voltage Switch
LAN Port
RS485 Port
Ground Terminal
Air Outlet
131.5mm
11mm
290.2mm
23.8mm

Technical Data Sheet

Model	N62320-80-30	
Voltage	80V	
Current	30A	
Power	200W	
Minimum Operating Voltage	0.5V/3A	1.5V/30A
CV Mode		
Range	0~10V	0~80V
Setting Resolution	1mV	10mV
Setting Accuracy (23 ±5°C)	0.05%+0.1%F.S.	
Setting Resolution	1mV	10mV
Readback Accuracy (23 ±5°C)	0.05%+0.1%F.S.	
CC Mode		
Range	0~3A	0~30A
Setting Resolution	1mA	10mA
Setting Accuracy (23 ±5°C)	0.1%+0.1%F.S.	
Setting Resolution	1mA	10mA
Readback Accuracy (23 ±5°C)	0.1%+0.1%F.S.	
CP Mode		
Range	20W	200W
Setting Resolution	1mW	10mW
Setting Accuracy (23 ±5°C)[1]	0.1%+0.1%F.S.	
Setting Resolution	1mW	10mW
Readback Accuracy (23 ±5°C)[1]	0.1%+0.1%F.S.	
CR Mode		
Range	0~9999Ω	0~999.9Ω
Testing Setting Resolution	1Ω	0.1Ω
Setting Accuracy (23 ±5°C)[2]	(Vin/Rset)*0.1%+0.5%F.S.	
Others		
Protection Function	OVP/OCP/OPP/OTP/RV	
Interface	LAN/RS485	
Communication Protocol	Modbus-RTU standard protocol，SCPI standard protocol，TCP/IP protocol	
Communication Response Time	≤5ms	
AC Input	110V 47Hz~63Hz current≤0.5A@110V	220V 47Hz~63Hz current≤0.25A@220V
Temperature	Operating temperature：[3] 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. 2.6 kg	
Dimension	131.5mm（H）*72.0mm（W）*325.0mm（D）	

Note 1: The F.S. of power is calculated as the rated voltage F.S. multiplied by the rated current F.S.
Note 2: To achieve the specified accuracy, the input voltage/current must exceed 10% of the F.S. value.
Note 3: Input power will be derated if the ambient temperature exceeds 30°C.
Note 4: For other specifications, please contact NGI.
Note 5: All specifications are subject to change without notice.