

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.



DC Power Supply

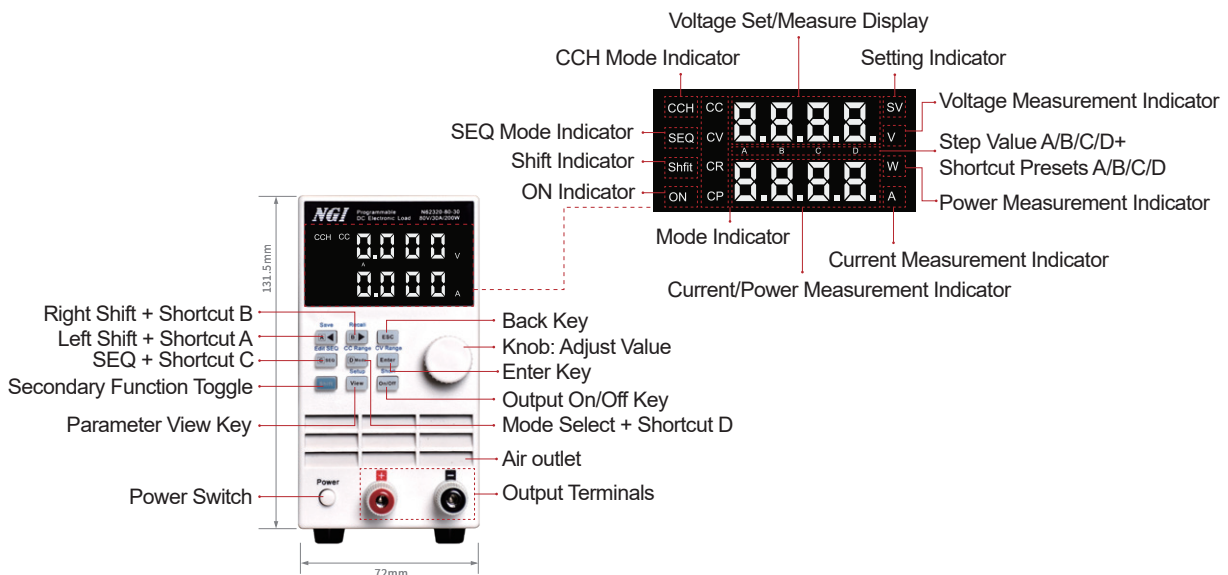
Application Fields

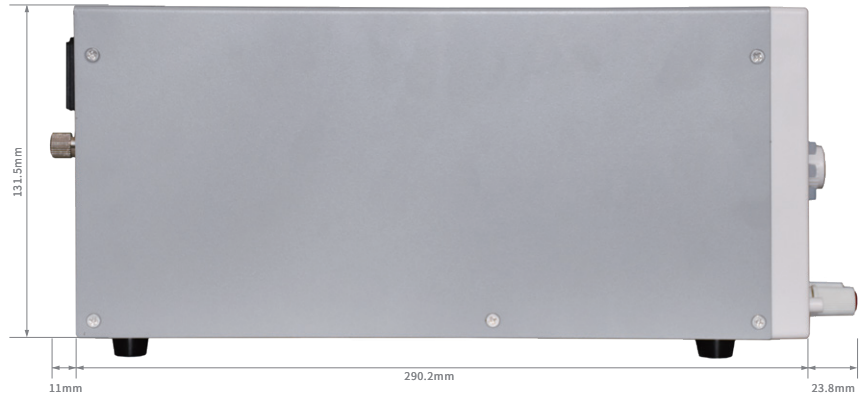
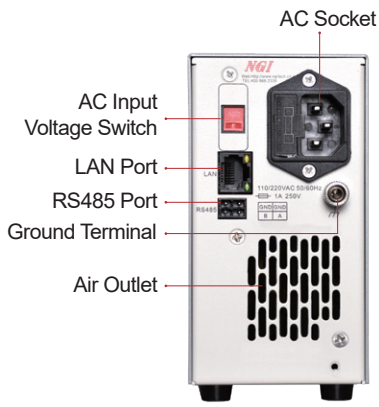
- ▶ Testing of AC/DC power supplies, DC/DC converters, and other low-power power modules
- ▶ Testing of consumer electronics such as smartphones and mobile devices
- ▶ Testing of low-power batteries for drones, portable devices, and similar applications

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





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.