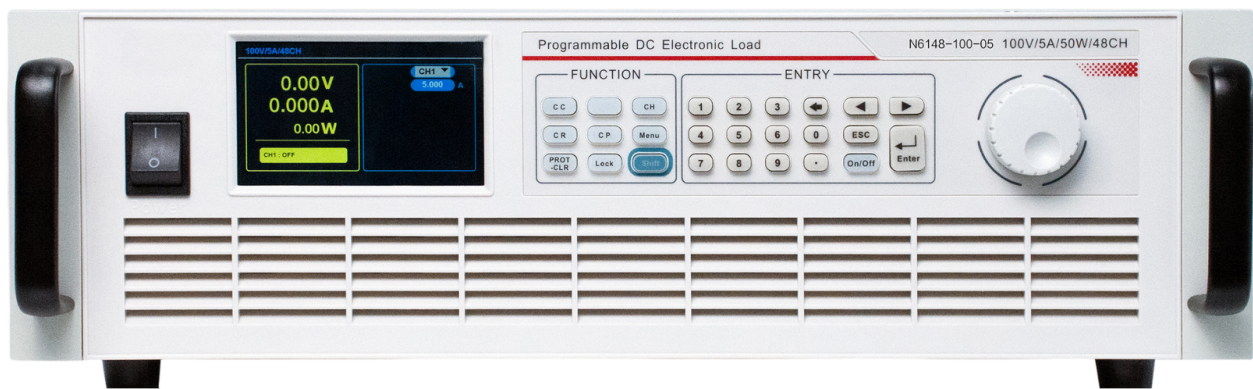


Datasheet: N6148 Series

Programmable electronic multi-channel DC load of the N6148 series



Version: 04.03.2025

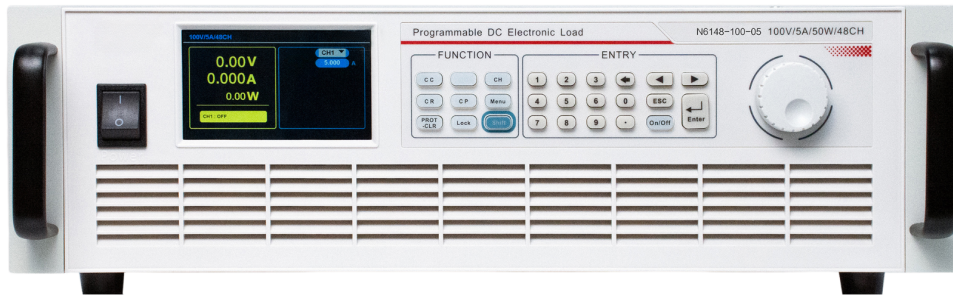
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N6148 Series Multi-channel Programmable DC Electronic Load



Product Introduction

N6148 series is a multi-channel programmable DC electronic load, with high reliability, high integration, high accuracy. It is tailored for integrated applications, featuring in high communication response speed and high stability. N6148 series is with 19-inch 3U size, up to 48 channels and supports communication interfaces LAN and RS485. In most integrated applications, N6148 series can replace low-power standalone electronic loads and save much cost for users.

Application Fields

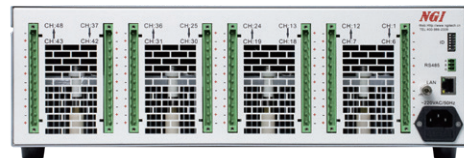
- ▶ R&D, production, aging and QC of DC/DC converters, power products
- ▶ Test of automotive wiring harness, connectors, fuses, relays, BEC(Bussed Electrical Center)

Main Features

- ▶ Power range: 0~50W
- ▶ Voltage range: 0~100V
- ▶ Current range: 0~5A
- ▶ Basic accuracy: 0.5%F.S.
- ▶ Operation Mode:CC/CP/CR
- ▶ Equipped with LCD screen, knob and button, convenient for local operation
- ▶ High integration, single device up to 48 channels
- ▶ Supporting OCP test, Von/Voff function
- ▶ Multiple protection: OCP/OVP/OPP/OTP
- ▶ Built-in RS485 interface and LAN port
- ▶ Communication protocol:SCPI, Modbus

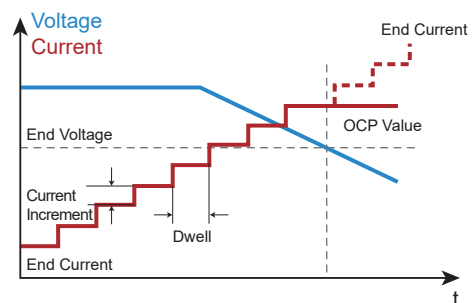
Ultra-high integration, single device with up to 48 channels

N6148 series multi-channel DC electronic load supports up to 48 channels in a single device with modular design. Each module integrates 6 power channels. The ultra-high integration makes N6148 a competitive selection for multi-channel batch test applications.



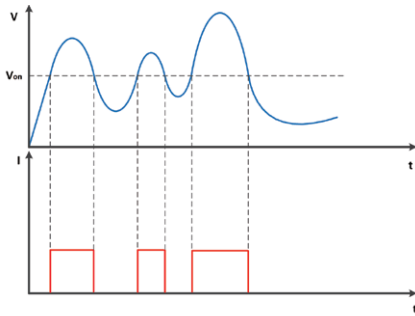
OCP (over current protection) test

During OCP test, N6148 will load under CC mode and check whether the DUT voltage is lower than end voltage. If lower, N6148 will record the present loading current as the test result and shut the input to stop the test. If the DUT voltage is higher than end voltage, N6148 will increase the loading current until the DUT voltage is lower than end voltage or it reaches the Max. loading current.

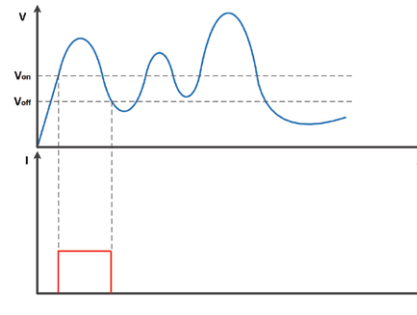


Settable Von/Voff

The Von latch function has two modes to meet your various test needs: enabled and disabled.

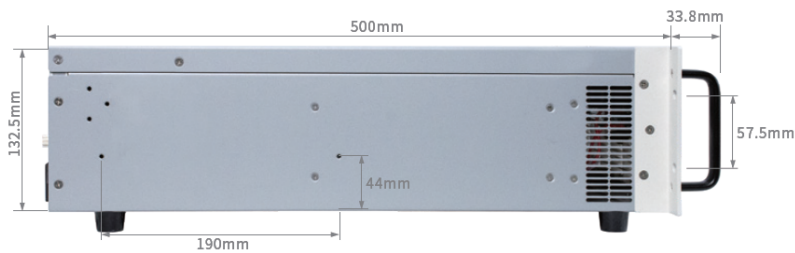
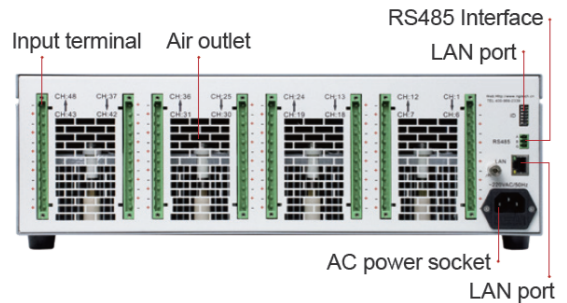
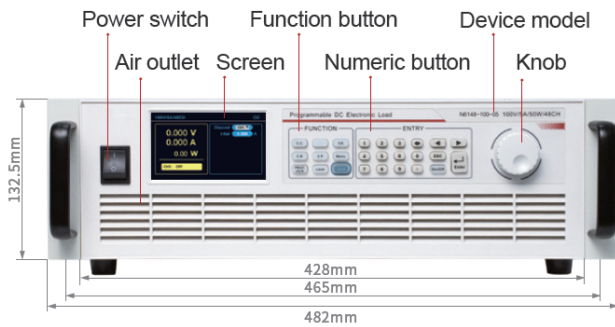


- ▲ Disabled: When the input voltage is higher than V_{on} , N6148 starts to sink current. When the input voltage is lower than V_{on} , it stops sinking current.



- ▲ Enabled: When the input voltage is higher than V_{on} , N6148 starts to sink current. When the input voltage is lower than V_{off} , N6148 stops sinking current. After that, it will not sink current automatically even the input voltage is higher than V_{on} again.

Product Dimension



Technical Data Sheet

Model	N6136-100-05	N6148-100-05
Channels	36CH	48CH
Voltage	100V	
Current	5A	
Power	50W	
CC Mode		
Range	0~5A	
Setting Resolution	1mA	
Setting Accuracy (23±5℃)	0.1%+0.5%F.S.	
CR Mode		
Range	1Ω~2kΩ	
Setting Resolution	0.1Ω	
Setting Accuracy (23±5℃)	0.1%+0.5%F.S. (Operating voltage≥1V)	
CP Mode		
Range	0~50W	
Setting Resolution	10mW	
Setting Accuracy (23±5℃)	0.1%+0.5%F.S.	
Voltage Measurement		
Range	0~100V	
Setting Resolution	10mV	
Setting Accuracy (23±5℃)	0.1%+0.1%F.S.	
Others		
Interface	LAN/RS485	
Communication Response Time	≤10ms	
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. 22kg	Approx. 25kg
Dimension	3U, 132.5(H)*482.0(W)with handle*500.0(D)mm	

Note 1: For other specifications, please contact us.

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