

N692 High Power Programmable DC Electronic Load

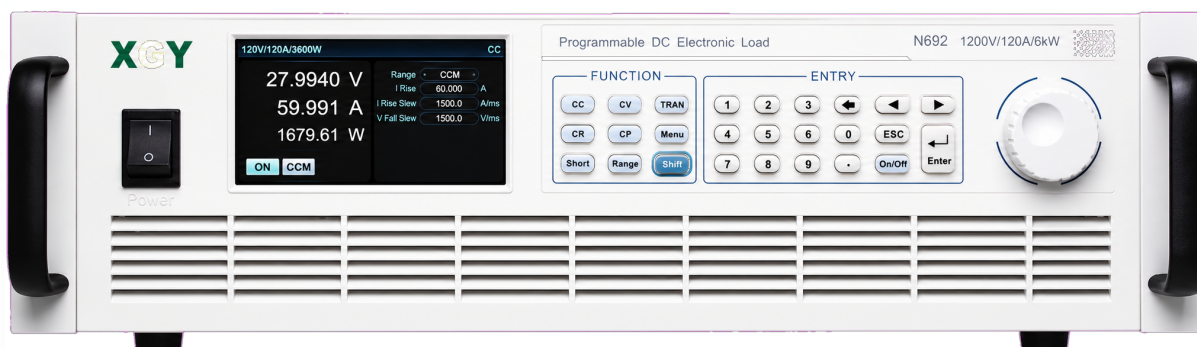
High-power programmable DC electronic load with modular expansion up to 60 kW standalone input power

At a Glance

N692 is a high-power programmable DC electronic load for R&D testing and ATE systems.

The family covers 150 V, 600 V, 1200 V, 1600 V, and 2400 V voltage specifications and standalone input power from 2 kW to 60 kW.

Parallel control, eight operating modes, dynamic testing, charge/discharge tests, OCP/OPP, short-circuit simulation, DCIR, and waveform loading are supported.

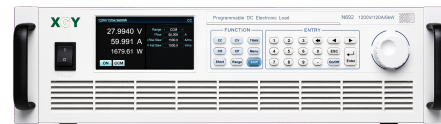


N692 High Power Programmable DC Electronic Load

Product Overview

N692 uses a modular 3U/19-inch architecture for high-density power loading and scalable high-current or high-voltage test systems.

LAN, RS232, CAN, USB host, digital I/O, analog I/O, and optional GPIB support local and remote integration.



Key Features

- **High Power Density**

A 3U chassis can provide up to 6 kW, reducing size and weight compared with traditional loads.

- **Wide Voltage Coverage**

Voltage specifications include 150 V, 600 V, 1200 V, 1600 V, and 2400 V.

- **High Current Capability**

Current range extends up to 2500 A by model.

- **Parallel Expansion**

Master/master and master/slave parallel operation expand current and power capacity.

- **Dynamic And Waveform Loading**

30 kHz dynamic mode, frequency sweep, programmable dynamic load mode, and arbitrary waveform loading are supported.

- **Battery And Protection Tests**

Charge/discharge, OCP/OPP, short-circuit simulation, optional DCIR, and optional ESR-related workflows are supported.



Application Fields

New Energy

Fuel-cell stacks, lithium battery packs, supercapacitors, and photovoltaic modules.

High-Power Supplies

Industrial, server, communication, generator, energy-storage, and DC charging systems.

Power Electronics

UPS, DC-DC converters, on-board chargers, relays, contactors, and automotive high-voltage accessories.

Advanced Test Systems

Electric vehicles, semiconductors, aerospace, and high-power automated testing.



Operating Capabilities

Parallel Connection: When more load power is required, models with the same voltage specification can be connected in parallel, and slave current is distributed from the master setting.

Dynamic And Battery Tests: Dynamic frequency sweep can measure peak and valley voltage response points, while built-in charge/discharge workflows support battery-style test conditions.

Selection Summary

Voltage class	Representative power range	Representative current range	Size range
150 V	2 kW to 60 kW	200 A to 2500 A	3U to 32U
600 V	2 kW to 60 kW	140 A to 2500 A	3U to 32U
1200 V	2 kW to 60 kW	40 A to 2400 A	3U to 32U
1600 V	3 kW to 50 kW	40 A to 600 A	3U to 32U
2400 V	3 kW to 50 kW	40 A to 600 A	3U to 32U

Core Specifications

Core Ratings And Functions	
Standalone input power	2 kW to 60 kW
Voltage range	0 to 150 V / 600 V / 1200 V / 1600 V / 2400 V by model
Current range	Up to 2500 A
Voltage measurement accuracy	0.015% + 0.015% F.S.
Current measurement accuracy	0.04% + 0.04% F.S.
Dynamic mode	Up to 30 kHz; 500 kHz sampling for dynamic frequency sweep
Interfaces	LAN, RS232, CAN, USB host, digital I/O, analog I/O; optional GPIB

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Specifications subject to change without notice. Per AS/NZS standards.