

N621 High Performance Benchtop DC Electronic Load

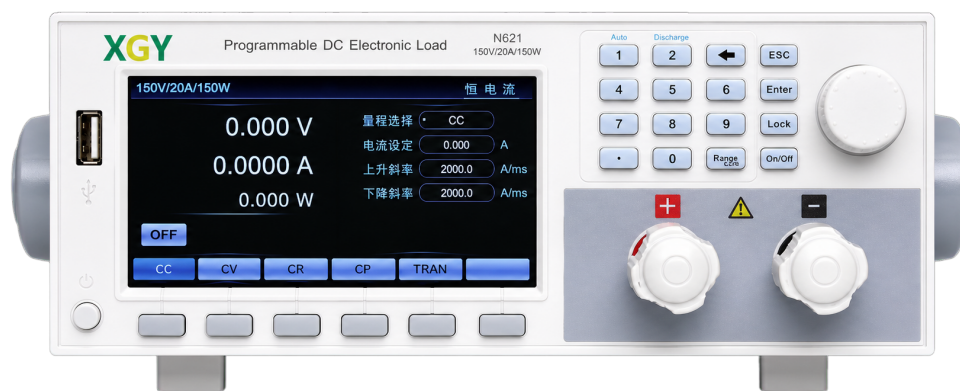
Compact benchtop DC electronic load with multi-mode testing and fast-charge protocol options

At a Glance

N621 is a benchtop DC electronic load for medium- and low-power supply, component, battery, and fast-charge adapter tests.

The family supports 80 V, 150 V, and 600 V voltage classes with 150 W, 300 W, and 600 W power classes.

Eight operating modes, LED simulation, OCP/OVP/OPP tests, dynamic sweep, discharge, sequence, and auto-test functions are supported.



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N621 High Performance Benchtop DC Electronic Load

Product Overview

N621 provides compact local and remote electronic-load capability for R&D benches and production checks.

A 4.3-inch LCD screen, professional test software, and optional fast-charging test module support common power-electronics workflows.



Key Features

- **Eight Operating Modes**

CC, CV, CR, CP, CV+CC, CV+CR, CR+CC, and CP+CC modes cover common DUT behaviors.

- **LED Simulation**

The load can simulate LED behavior using an equivalent voltage source and resistance model.

- **Protection Tests**

OCP, OVP, and OPP modes help verify power-supply protection behavior.

- **Dynamic Functions**

Dynamic sweep, time measurement, discharge test, sequence test, auto test, impedance simulation, and short-circuit simulation are supported.

- **Fast-Charge Option**

Optional module support includes USB PD2.0/PD3.0/PD3.1, QC, PE, FCP, SCP, AFC, and VOOC protocols on supported models.

- **Remote Control**

Local/remote control and professional test software are supported.

Application Fields

Power Supply Test

AC/DC, DC/DC, LED, and communication power supply tests.

Component Test

Automobile wire harnesses, connectors, fuses, relays, and control boxes.

Battery Discharge

Li-ion, accumulator, and supercapacitor discharge tests.

Fast Charging

Cellphone fast-charge adapters and portable fast-charge power sources.



Operating Capabilities

Operating Modes: Combined modes help prevent over-current protection during startup, replace Von behavior, and simulate battery charging transitions.

OCP Test: During OCP testing, the load increases current under CC mode until the DUT voltage falls below the end voltage or the configured current limit is reached.

Selection Summary

Power class	Representative 80 V	Representative 150 V	Representative 600 V
150 W	N62115-80-20	N62115-150-20	N62115-600-05
300 W	N62130-80-40	N62130-150-40	N62130-600-10
600 W	N62160-80-60	N62160-150-60	N62160-600-15

Core Specifications

Core Ratings And Functions	
Voltage classes	80 V / 150 V / 600 V
Current range	Up to 60 A by model
Power range	150 W / 300 W / 600 W
Operating modes	CC, CV, CR, CP, CV+CC, CV+CR, CR+CC, CP+CC
Display	4.3-inch LCD screen
AC input	110/220 VAC, 47 Hz to 63 Hz
Supported functions	OCP/OVP/OPP, load effect, dynamic sweep, time measurement, discharge, sequence, auto test, short circuit

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