



Electronic load modular power system

What is the use of electronic load?

Portable devices: Use the electronic load to simulate various device power states such as sleep, power conservation, and full power modes to test power consumption. How to Select the Right Electronic Load based on:

What is a programmable electronic load?

Electronic loads are pivotal in testing and validating power sources such as batteries, fuel cells, and renewable energy systems. Our programmable electronic loads simulate real-world electrical loads to evaluate performance, efficiency, and reliability under different conditions.

What is a traditional DC electronic load solution?

Traditional DC Electronic Load Solutions are bulky and large. Most are offered with standard voltage, current and power ratings. In the ATE world, rack space is a highly coveted asset, and application demands are constantly diversifying with new technology development.

How to test a power supply with an electronic load?

You can carry out ripple, noise, load/line regulation, over voltage, and current protection tests with the electronic load. Uninterruptible power supply (UPS): This is a complete test that requires an AC source, DC source, DC load, and AC load. The DC load uses the load bank to test the backup battery and charger within the UPS.

What is a high power DC electronic load?

High power DC electronic loads designed for testing AC/DC power supplies, batteries and energy storage systems, EV/EVSE, and other power electronics. Simulate loading characteristics of AI microprocessors. Designed for ultra-low voltage applications of 2,000A@0.2V for reliable testing of VRMs, VRDs, POLs, and D2Ds.

What is the difference between power supply and electronic load?

Power supplies and electronic loads are complementary test equipment. The power supply tests electronic circuits under specific sourcing conditions. The electronic load tests the energy sources or energy conversion blocks under specific loading constraints.

The MDL Series is a multi-channel modular programmable electronic load system. Six different modules of programmable DC loads ranging in power from 200 W to 600 W provide users the flexibility to test a wide range of power sources from multi-output AC/DC power supplies to batteries, fuel cells, and photovoltaic arrays.

INTEPRO Systems, a leader in power component and power system automated test equipment (ATE),



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announced the introduction of its latest line of 1800W modular electronic loads. The ML1800 Series features an 8-inch TFT LCD color display with multiple language selection that is visible across the room.

DC Electronic Loads; AC Power Sources; Software. EDA Software; Instrument Measurement Software; Instrument Workflow Software; Software Testing ... The Keysight N6700 Series of modular system power supplies provide up to four outputs per mainframe. An independent module is a source for each output, enabling the customization of voltage, current ...

Keysight / Agilent N6700C Low-Profile Modular Power System Mainframe, 400 W, 4 Slots. The N6700 Low-Profile Modular Power System (MPS) is a 1U (rack unit) high, multiple-output programmable DC power supply or electronic load system that enables test system integrators to optimize performance, power and price to match test needs

The MDL4U Series is a multi-channel modular programmable electronic load system. Seven different modules of programmable DC loads ranging in power from 200 W to 600 W provide users the flexibility to test a wide range of power sources from multi-output DC power supplies to batteries, fuel cells, and photovoltaic arrays.

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4U Power with 30 kW including 29 models; Large selection of 50 models for special applications; Powerful rack performance. A 19" rack with 42 U for a system with 300 kW; One unit with up to 13 racks with 64 units of 60 kW each; For high power applications up to 3.84 MW; Powerful efficiency. Fewer units for a high-power system; Less rack space ...

ReFlex Power(TM) is a high density, modular programmable power system providing DC, AC and electronic load assets all under control of a single controller. It provides a reconfigurable, flexible platform ideal for ATE and production test environments where RFP(TM) can provide programmable stimulus and bias power as well as

INTEPRO SYSTEMS, market leaders in power component and power system automated test equipment (ATE), announce the introduction of their new ML1800 Series of 1800W modular electronic loads. The ML1800 features an 8-inch TFT LCD colour display with multiple language selection that is visible across the room.

The Adaptive Power 4 Series of Programmable DC Electronic Load Modules are ideally suited for testing multiple output AC/DC power supplies, DC/DC converters, battery chargers, LED lighting power supplies and other power ...

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A DC electronic load is a device designed to simulate and apply controlled electrical loads to direct current (DC) power sources. A DC electronic load enables operators to test and evaluate the performance of DC power supplies, batteries or other DC-powered electronic systems.

With the EA Modular Power System you have the possibility to select the suitable devices for your tests and simulations and to integrate them into a powerful system. Power supplies and electronic loads. Configure 3U, 4U and 6U devices into 42U, 38U, 24U and 15U racks. Combine EA-10000 and EA-10000 Industrial series bidirectional power supplies ...

Home / Power Supplies / Electronic Loads / Modular Electronic Loads / Keysight N6702C/904 Modular Power System Mainframe, Low-Profile, 1200W, 4 Slots, N6700 Series. ... The Keysight N6702C is a 1200 W 1U high, 4-slot modular power system mainframe that accepts from 1 to 4 N6700 series DC power modules in any combination. Features:

The Keysight N6700C is a 400 W 1U high, four-slot modular power system mainframe that accepts from 1 to 4 N6700 series DC power modules in any combination. ... DC Electronic Loads. AC Power Sources. Software Software. ...

Find new, used, and rental Keysight Technologies (formerly Agilent) N6702C Low-Profile Modular Power System Mainframe, 1200W, 4 Slots at Electro Rent ... N6700 Series DC Power Modules and Electronic Loads: Model Overview: Model: Description: N6730 50W. DC Power Modules. N6731B: DC Power Module; 5V / 10A / 50W: N6732B: DC Power Module; 8V / 6 ...

The SLM family includes 11 models of fully programmable, single input AC or DC modular electronic loads. DC models are offered to test power supplies, battery chargers, battery discharge, power supply transient response and integration into ATE systems. AC models are ideal to test low power inverters.

Ultra-Low Voltage Power DC Electronic Load 20V / 2000A / 2kW: Accessories: A600009: GPIB cable (200cm) A600010: GPIB cable (60cm) ... Modular DC Electronic Load LED Simulator. Chroma 6310/A. ... batteries and energy storage systems, EV/EVSE, and other power electronics. explore. Benchtop DC Electronic Load. Chroma 63000.

ReFlex Power(TM) (RFP(TM)) is a high density, programmable power module system providing DC, AC and electronic load assets all under control of a single controller. It is a reconfigurable, flexible platform ideal for ATE and production test environments where it can provide programmable stimulus, bias power, and programmable loads for the device ...

With the EA Modular Power System you have the possibility to select the suitable devices for your tests and simulations and to integrate them into a powerful system. Power supplies and electronic loads. Configure 3U, 4U and 6U ...

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Electronic loads, such as the Sorensen SL Series of DC Electronic Loads, are instruments that you would use to provide a programmable load when testing voltage and current sources, including power supplies and batteries. Modern electronic loads are actually sophisticated electronic test instruments that can offer a number of different modes, including Constant ...

Discover Sorensen's PLA Series, offering air-cooled DC electronic load power solutions ranging from 800W to 7.5kW. Benefit from isolated failures, ensuring protection and minimizing stress on other components.

DC Electronic Loads. AC Power Sources. Software Software. EDA Software. Instrument Measurement Software. Instrument Workflow Software. Software Testing. All Design and Test Software. Wireless Wireless. Channel Emulators. IoT Regulatory Compliance Solutions. ... N6700 Modular Power System Family. Data Sheets.

In addition to these modes, modern electronic DC loads come with various features like over-voltage protection, over-current protection, over-temperature protection, and more. These features ensure safe operation and provide additional diagnostic tools when testing power supplies and other devices.

This optimizes the power system for actual power needs, rather than overdesigning the system for the worst-case condition. Figure 4: The power averaging technique allows designers to optimize DC-DC systems for loads that require high ...

Modular DC Electronic Load - 6310/A; Power Meters. Single Channel Digital Power Meter; Multi-Channel Digital Power Meters; LCR Meters. 100Hz-50KHz LCR Meter - 11021/11021-L ... If you're looking for a programmable, modular load system that can do it all including full current down to 0.4VDC, CZ mode, user defined waveforms, timing ...

Modular System Based on DC Power Supply or Electronic Load Outputs The Keysight N6705 DC power analyzer is a modular system that can be tailored to meet specific test needs. At the heart of the DC power analyzer is the DC ...

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Electronic loads use FET switches and non-reactive power electronics that minimize ringing and manage less than ideal behavior. Today, they are known as general-purpose instruments capable of testing most sources of DC power including DC-DC converters, LED drivers, batteries, solar cells, generators, and fuel cells.



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