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Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N8937APV Photovoltaic Array Simulator 1500V 30A

Agilent Keysight N8937APV Photovoltaic Array Simulator The Keysight N8937APV is an N8900-family autoranging photovoltaic array simulator providing 15 kW single-output programmable DC power with up to 1500 V and up to 30 A. OEM PV array simulator documentation lists 208 VAC input option, LXI Core LAN, USB, GPIB, and analog interfaces for solar inverter ATE. Photovoltaic inverter test, solar array simulation, and high-voltage autoranging DC power for renewable-energy ATE. Up to 1500 V and 30 A at rated power envelope The Keysight N8937APV is an N8900-family autoranging photovoltaic array simulator providing 15 kW single-output programmable DC power with up to 1500 V and up to 30 A. OEM PV array simulator documentation lists 208 VAC input option, LXI Core LAN, USB, GPIB, and analog interfaces for solar inverter ATE. Photovoltaic inverter test, solar array simulation, and high-voltage autoranging DC power for renewable-energy ATE. Up to 1500 V and 30 A at rated power envelope Parallel primary secondary control for multi-unit power

MODEL	CALIBRATION
Agilent / Keysight N8937APV	Available on request
CONDITION	**STATUS**
Used	In stock
RFQ / SKU	**LISTING**
N8937APV	https://aumictechlabs.com/products/n8937apv-3/

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Keysight N8937APV is a high-power, autoranging DC power supply designed as a photovoltaic (PV) array simulator for testing solar inverters. It is engineered to develop, verify, and optimize the performance of inverter maximum power point tracking (MPPT) algorithms and inverter efficiency. This unit simulates the output characteristics of a PV array under various environmental conditions, including temperature, irradiance, age, and cell technology, enabling comprehensive testing of solar inverters. The N8937APV offers flexibility with its autoranging output, providing a wide range of voltage and current combinations at full power, unlike traditional power supplies with fixed output characteristics. It can also function as a general-purpose autoranging DC power supply. Technical Specifications General Specifications * Product Type: Photovoltaic Array Simulator / Autoranging DC Power Supply Model: N8937APV Manufacturer: Keysight Technologies (formerly Agilent) Status: Discontinued Electrical Specifications * Maximum Output DC Power: 15 kW Maximum Output DC Voltage: 1500 VDC Maximum Output DC Current: 30 A Autoranging Output: Yes, offers full power across a wide range of voltage and current combinations I/V Curve Specification: * Curve Mode * Table Mode (up to 1024 points) Input Voltage: 208 VAC Parallel Operation: Multiple units can be paralleled for higher power output (e.g., up to 150 kW) * Built-in master/slave control for seamless parallel operation. Isolation Voltage: 1000 VDC Measurements * Built-in Voltage and Current Measurement: Yes Protection Features * Over-voltage Protection: Yes Over-current Protection: Yes Over-temperature Protection: Yes Interfaces * Standard I/O Interfaces: * LAN (LXI Core) * USB * GPIB * Analog interfaces Physical Characteristics * Form Factor: 3U Rack Height (5.25 inches / 13.34 cm) High Power Density: 15 kW in 3U chassis Compatibility and Software * PV Simulation Software: * SAS Curve Generator software (free application) for simplifying PV model programming * SAS Control software (no-cost) for interfacing with N8900APV Series PV simulators Testing Capabilities: * Solar Inverter MPPT Testing and Optimization * Inverter Efficiency Testing * String Inverter Testing Documentation and Resources * Operating and Service Guide: Available for N8900 Series Autoranging System DC Power Supply Data Sheets: Available for N8900 Series Autoranging System DC Power Supplies Technical Overviews: Available for N8937APV (STEP format 3D Model) Application Notes: On topics such as "Supplying DC Input Power to String Inverters" Firmware: Current version C.02.10.763 (as of August 7, 2019) Why Choose Aumictech for Keysight N8937APV? At Aumictech, we specialize in supplying high-end power electronics test equipment. Whether you need advanced photovoltaic array simulation for inverter testing, reliable DC power for complex R&D projects, or high-density power solutions for manufacturing, our team ensures the Keysight N8937APV delivers maximum performance for your application.

Features & description

From manufacturer datasheet

Built-in voltage and current measurement

Parallel primary secondary control for multi-unit power LAN USB GPIB and analog interfaces standard Technical Specifications Model: N8937APV DC Output Voltage: 0 to 1500 V DC Output Current: 0 to 30 A DC Output Power: 15000 W AC Input Option: 208 VAC class (N8937APV) Autoranging Output: yes wide V/I combinations at full power Programming Accuracy Voltage Class: 0.1 percent of full scale class per N8937A family table Programming Accuracy Current Class: 0.1 percent of full scale class per N8937A family table Form Factor: 3U high power density class Remote Interfaces: LAN LXI Core USB GPIB analog Instrument Type: photovoltaic array simulator Parallel Capability Class: multiple units to higher total power with primary secondary control Series Family: N8900 autoranging / PV array simulator Brand Lineage: Agilent / Keysight Protection: overvoltage overcurrent overtemperature class Built In Measurement: voltage and current Software Path Class: DG8901A SAS control and DG9000A advanced PV inverter test software path Output Channels: 1Maximum Voltage: 1500 V Maximum Current: 30 A Maximum Power: 15 kW Rack Height: 3U LXI Compliance: LXI Core LAN Parallel Power Class: up to 90 kW class with multiple units

N8937APV Characteristics / Specifications

PARAMETER	VALUE
Model	N8937APV
DC Output Voltage	0 to 1500 V
DC Output Current	0 to 30 A
DC Output Power	15000 W
AC Input Option	208 VAC class (N8937APV)
Autoranging Output	yes wide V/I combinations at full power
Programming Accuracy Voltage Class	0.1 percent of full scale class per N8937A family table
Programming Accuracy Current Class	0.1 percent of full scale class per N8937A family table
Form Factor	3U high power density class
Remote Interfaces	LAN LXI Core USB GPIB analog
Instrument Type	photovoltaic array simulator
Parallel Capability Class	multiple units to higher total power with primary secondary control
Series Family	N8900 autoranging / PV array simulator
Brand Lineage	Agilent / Keysight
Protection	overvoltage overcurrent overtemperature class
Built In Measurement	voltage and current
Software Path Class	DG8901A SAS control and DG9000A advanced PV inverter test software path
Output Channels	1Maximum Voltage: 1500 V
Maximum Current	30 A
Maximum Power	15 kW
Rack Height	3U
LXI Compliance	LXI Core LAN
Parallel Power Class	up to 90 kW class with multiple units

N8937APV Specifications

PARAMETER	VALUE
Agilent Keysight N8937APV Photovoltaic Array Simulator	Overview
Key Features	15 kW autoranging PV array simulator
Technical Specifications	Model: N8937APV

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	N8937APV
DC Output Voltage	0 to 1500 V
DC Output Current	0 to 30 A
DC Output Power	15000 W
AC Input Option	208 VAC class (N8937APV)
Autoranging Output	yes wide V/I combinations at full power
Programming Accuracy Voltage Class	0.1 percent of full scale class per N8937A family table
Programming Accuracy Current Class	0.1 percent of full scale class per N8937A family table
Form Factor	3U high power density class
Remote Interfaces	LAN LXI Core USB GPIB analog
Instrument Type	photovoltaic array simulator
Parallel Capability Class	multiple units to higher total power with primary secondary control
Series Family	N8900 autoranging / PV array simulator
Brand Lineage	Agilent / Keysight
Protection	overvoltage overcurrent overtemperature class
Built In Measurement	voltage and current
Software Path Class	DG8901A SAS control and DG9000A advanced PV inverter test software path
Output Channels	1Maximum Voltage: 1500 V
Maximum Current	30 A
Maximum Power	15 kW
Rack Height	3U
LXI Compliance	LXI Core LAN
Parallel Power Class	up to 90 kW class with multiple units

Notes
From Keysight Photovoltaic/Solar Array Simulation Solution and N8937A/N8937APV product documentation. Exact autoranging corner points follow the N8900 15 kW family tables for the 1500 V / 30 A model.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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Generated August 14, 2026