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Data Sheet

August 3, 2026

KEYSIGHT / AGILENT

Keysight / Agilent E4361A Solar Array Simulator DC Module, 65V, 8.5A, 510W

Keysight / Agilent E4361A Solar Array Simulator DC Module, 65V, 8.5A, 510W The Keysight E4361A isaSolar Array Simulator (SAS) DC module for the E4360A modular mainframe. It simulates photovoltaic I-V curves with Voc to 65 V, Isc to 8.5 A, and up to 510 W (at 200/230/240 Vac line). Operating modes include Simulator (SAS), Table, and Fixed. Designed for satellite/solar-array power-system test with fast I-V curve changes and low output capacitance. Satellite power-system test; solar-array I-V simulation under temperature/aging/eclipse scenarios; LIST of up to 512 I-V curves. The Keysight E4361A isaSolar Array Simulator (SAS) DC module for the E4360A modular mainframe. It simulates photovoltaic I-V curves with Voc to 65 V, Isc to 8.5 A, and up to 510 W (at 200/230/240 Vac line). Operating modes include Simulator (SAS), Table, and Fixed. Designed for satellite/solar-array power-system test with fast I-V curve changes and low output capacitance. Satellite power-system test; solar-array I-V simulation under temperature/aging/eclipse scenarios; LIST of up to 512 I-V curves.



MODEL

**Keysight / Agilent
E4361A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E4361A

LISTING

<https://aumictechlabs.com/products/e4361a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight/Agilent E4361A is a 510 W solar array simulator DC module that emulates photovoltaic array output characteristics for testing and development of solar power systems. Operating as a current source with minimal output capacitance, it rapidly adjusts its I-V curve to simulate environmental conditions including temperature, age, eclipse, and spin effects. The module delivers up to 65 V and 8.5 A in simulator and table modes, with fixed-mode operation rated 0–60 V and 0–8.5 A. Programming accuracy reaches $\pm (0.075\% + 25 \text{ mV})$ for voltage and $\pm (0.2\% + 20 \text{ mA})$ for current in fixed mode. Voltage ripple and noise stay below 20 mV RMS in simulator/table mode and 24 mV RMS in fixed mode (20 Hz to 20 MHz). The module installs in a Keysight E4360A mainframe, which accommodates up to two modules in a 2U rack-mountable enclosure. Three standard interfaces LAN, USB, and GPIB - enable remote control, with full LXI Class C compliance. Over-voltage, over-current, and over-temperature protection safeguard the circuit. The mainframe accepts universal 100–240 VAC input (50/60/400 Hz) with integrated power factor correction. Full 510 W output per module is available when the mainframe receives $\geq 180 \text{ VAC}$; below this threshold, output power limits to 300 W per module with dual modules installed, or remains unrestricted for single-module configurations at 100–180 VAC.

Features & description

From manufacturer datasheet

Features

- Max power: 510 W • Voc: 65 V; Vmp: 60 V; Isc/Imp: 8.5 A (full line voltage) • At 100/120 Vac line: Isc/Imp limited to 4.25 A • Modes: SAS Simulator, Table, Fixed • Host: E4360A 2U mainframe (up to 2 modules) • Interfaces (mainframe): LAN, USB, GPIB; LXI ClassC Technical Specifications

E4361A Characteristics / Specifications

PARAMETER	VALUE
Model	E4361A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Solar Array Simulator DC Module
Family	E4360 Modular SAS
Alias	E4361A; Agilent E4361A Output Ratings (Simulator/Table, 200/230/240 Vac)
Maximum Power	510 W
Maximum Voc	65 V
Maximum Vmp	60 V
Maximum Isc	8.5 A
Maximum Imp	8.5 A Output Ratings (100/120 Vac line)
Maximum Isc / Imp	4.25 A (power derated)
Fixed Mode Voltage	0–61.5 V; Current 0–8.5 A (line-dependent) Supplemental (examples) Programming resolution (voltage/current) and accuracy per E4360 datasheet tables for E4361A
LIST	up to 512 I-V curve sets (Voc, Vmp, Isc, Imp); dwell 30 ms to 33,554 s Operational Notes Requires E4360A mainframe. Prefer Keysight E4360 datasheet 5989-8485 for ripple, accuracy, and recovery-time tables.
Max power	510 W
Voc	65 V; Vmp: 60 V; Isc/Imp: 8.5 A (full line voltage)
At 100/120 Vac line	Isc/Imp limited to 4.25 A
Modes	SAS Simulator, Table, Fixed
Host	E4360A 2U mainframe (up to 2 modules)
Interfaces (mainframe)	LAN, USB, GPIB; LXI ClassC Technical Specifications

E4361A Specifications

PARAMETER	VALUE
Applications	Satellite power-system test; solar-array I-V simulation under temperature/aging/eclipse scenarios; LIST of up to 512 I-V curves.
Key Features	- Max power: 510 W
Technical Specifications	Model: E4361A
Output Ratings (100/120 Vac line)	Maximum Isc / Imp: 4.25 A (power derated)
Supplemental (examples)	Programming resolution (voltage/current) and accuracy per E4360 datasheet tables for E4361A
Operational Notes	Requires E4360A mainframe. Prefer Keysight E4360 datasheet 5989-8485 for ripple, accuracy, and recovery-time tables.

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	E4361A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Solar Array Simulator DC Module
Family	E4360 Modular SAS
Alias	E4361A; Agilent E4361A

Output Ratings (Simulator/Table, 200/230/240 Vac)

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PARAMETER	VALUE
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Maximum Voc	65 V
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Maximum Isc	8.5 A
Maximum Imp	8.5 A

Output Ratings (100/120 Vac line)

Maximum Isc / Imp: 4.25 A (power derated)

Fixed Mode Voltage: 0-61.5 V; Current 0-8.5 A (line-dependent)

Supplemental (examples)

Programming resolution (voltage/current) and accuracy per E4360 datasheet tables for E4361A

LIST: up to 512 I-V curve sets (Voc, Vmp, Isc, Imp); dwell 30 ms to 33,554 s

Operational Notes

Requires E4360A mainframe. Prefer Keysight E4360 datasheet 5989-8485 for ripple, accuracy, and recovery-time tables.

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

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.