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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 59511A Polarity Reversal Relay Device

HP Agilent 59511A Output Isolation Polarity Reversal Relay Device The HP 59511A is a remote-controlled relay accessory that isolates a DC power-supply output and reverses polarity. OEM 59510A/59511A tables list operating ranges 200 V at 20 A, 120 V at 30 A, or 48 V at 60 A. 59511A includes all 59510A isolation features plus polarity-reversal relays. TTL-control settling is 440 ms connect, 160 ms disconnect, and 600 ms polarity reversal. DC voltage drop is 0.5 V maximum on each relay at 60 A. Polarity reversal and emergency isolation of system DC supplies within 200 V / 60 A class. The HP 59511A is a remote-controlled relay accessory that isolates a DC power-supply output and reverses polarity. OEM 59510A/59511A tables list operating ranges 200 V at 20 A, 120 V at 30 A, or 48 V at 60 A. 59511A includes all 59510A isolation features plus polarity-reversal relays. TTL-control settling is 440 ms connect, 160 ms disconnect, and 600 ms polarity reversal. DC voltage drop is 0.5 V maximum on each relay at 60 A. Polarity reversal and emergency isolation of system DC supplies within 200 V / 60 A class.



MODEL

**Agilent / Keysight
59511A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

59511A

LISTING

<https://aumictechlabs.com/products/59511a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 59511A is a remote-controlled polarity reversal relay device that switches DC power outputs for test and measurement applications. An internal microprocessor sequences switching of power and sense leads to minimize voltage overshoots and protect connected loads. The unit operates via GPIB control with compatible Agilent system power supplies or TTL control for other applications, making it suitable for DC output polarity reversal, multi-fixture switching configurations, and fault-condition emergency shutdown.

Technical Specifications

Power Handling: 200 V at 20 A, 120 V at 30 A, or 48 V at 60 A
DC Floating Voltage: Input to output 200 VDC; input or output to ground 500 VDC; TTL control to ground 240 VDC
Relay DC Voltage Drop: 0.5 V maximum at 60 A (measured between IN and OUT terminals)
Settling Time (TTL control): Connect 440 ms, disconnect 160 ms, polarity reversal 600 ms
AC Input: Configurable for 100, 120, 200, or 240 VAC (–13%, +6%) at 48 to 63 Hz
Maximum Input Power: 60 VA
Dimensions: 185.4 mm W × 130.6 mm H × 198.6 mm D
Weight: 3.6 kg net (8 lb); 5.0 kg shipping (11 lb); 5.5 kg with Rack Mount Kit Option 850 (12 lb)

Key Features

- Switches one power supply output per unit with sequenced power and sense lead control
- Microprocessor-based switching architecture minimizes overshoot transients
- Dual control interfaces: GPIB (Agilent-integrated) and TTL (universal)
- Three-axis mounting capability via PEM fasteners; mounting orientation $\pm 10^\circ$ from vertical
- Optional Rack Mount Kit (Option 850) for standard 19-inch installations

Typical Applications

- DC load polarity testing and reversal
- Multi-fixture automated test switching
- Fault condition protection with rapid emergency shutdown
- Integrated system power supply control in production test environments

Compatibility & Integration

Designed for use with Agilent system power supplies including 603xA series models. Compatible with any DC power supply within specified voltage and current limits.

59511A Characteristics / Specifications

PARAMETER	VALUE
Model	59511A
Instrument Type	Output isolation and polarity reversal relay device
Related Isolation Only	59510A output isolation relay accessory
Operating Range High V	200 V at 20 A
Operating Range Mid	120 V at 30 A
Operating Range High I	48 V at 60 A
Dc Floating Input To Output	200 Vdc
Dc Floating To Ground	500 Vdc
Ttl Control To Ground	240 Vdc
Settling Connect	440 ms
Settling Disconnect	160 ms
Settling Polarity Reversal	600 ms
Dc Voltage Drop	0.5 V maximum on each relay at 60 A
Ac Input	100, 120, 220, or 240 Vac (-13 percent, +6 percent) at 48 to 63 Hz
Net Weight	3.6 kg (8 lb)
Size	185.4 mmWx 130.6 mmHx 198.6 mmDMounting Orientation: within 10 degrees from vertical
Mounting	PEM fasteners, any of three sides
Manufacturer	HP Agilent Keysight
Literature	HP 59510A/59511A relay-device specifications, 1994/95 Power Products Catalog
Form Factor	remote relay box
Use Case	DC output isolation and polarity reverse
Documentation Type	OEM relay-accessory specifications
Brand Lineage	Hewlett Packard Agilent Keysight
System Role	power-supply output relay

PARAMETER	VALUE
Control	TTL
Output isolation	and polarity reversal relay device

59511A Specifications

PARAMETER	VALUE
Applications	Polarity reversal and emergency isolation of system DC supplies within 200 V / 60 A class.
Polarity reversal plus output isolation	200 V 20 A, 120 V 30 A, or 48 V 60 A
Technical Specifications	Model: 59511A

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	
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Control	TTL

Notes

From HP 59510A/59511A relay-device specification tables (voltage/current ranges, settling times, 0.5 V drop at 60 A, AC input, size/weight). Contact material and sense-lead switching details are in operating/service manual 5957-6382.

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.