



59510A, 59511A

Relay Devices

Relay accessories to isolate load from dc output
Switch and sequence power and sense leads
dc output polarity reversal (59511A)

Agilent Technologies 59510A and 59511A are relay devices designed for control from 66xxA and 603xA power supplies. These power supply accessories can be configured to switch dc power to multiple test fixtures, or can be used to provide an extra measure of protection in the case of a fault condition where emergency shutdown is required. The 59511A has all the features of the 59510A, and also provides relays for polarity reversal. Each box switches one power supply output. They can be used with any dc power supply which falls within the voltage and current limits. The internal microprocessor sequences the switching of power and sense leads. This protects the load by minimizing possible voltage overshoots. When used with Agilent system power supplies that have been configured appropriately, the relays can be controlled through the power supply GPIB port. For other applications, the 59510A and 59511A are controlled through a TTL port. Both relay accessory models can be mounted on any one of three sides to a flat surface with the PEM fasteners provided. The Rack Mount Kit (Option 850) eases mounting behind the power supply or towards the front of the equipment rack.

Operating Ranges: 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
Settling Time (TTL control): Connect, 440 ms; disconnect, 160 ms; polarity reversal, 600 ms
dc Voltage Drop (at 60 A): 0.5 V maximum on each relay
ac Input: Can be set for 100, 120, 200, or 240 Vac (-13%, +6%) at 48 to 63 Hz
Weight:
59510A: Net, 2.3 kg (5 lb); shipping, 3.6 kg (8 lb); shipping with Opt 850, 4.1 kg (9 lb)
59511A: Net, 3.6 kg (8 lb); shipping, 5.0 kg (11 lb); shipping with Opt 850, 5.5 kg (12 lb)
Mounting Orientation: Within $\pm 10^\circ$ from vertical
Size: 185.4 mm W x 130.6 mm H x 198.6 mm D (7.26 in x 5.14 in x 7.81 in)

Ordering Information

59510A Output Isolation, Relay Accessory
59511A Output Isolation, Polarity Reversal Accessory
Options
Opt 850 Rack Mount Kit (side-by-side mounting of two units requires two kits)
Opt 910 Extra Operating and Service Manual
Not for use on 6680A, 6681A, 6682A, 6683A, 6684A, or 6035A.

The relay accessories can be mounted behind power supplies using the Option 850 Rack Mounting Kit. The device can be orientated in any horizontal position on the tray. The orientation shown can be used in shallow racks which do not have space to run cables from the relay accessory towards the rear of the rack.



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Manually Controlled by TTL or GPIB

59510A

59511A

For more information in the U.S.A. call
1-800-452-4844