EG-600

Two-Channel Insulation Monitor



600 Vdc
Max HV input

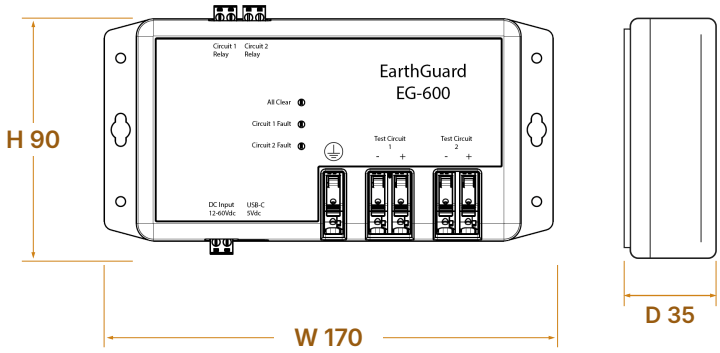
2 channels
Independent circuits

30 → 100 kΩ
Trip thresholds

IP20
Indoor Type 1

Specifications

The EarthGuard EG-600 continuously monitors the insulation to earth of up to two DC circuits (40–600 Vdc). On a fault it lights that circuit's Fault LED, sounds the buzzer and opens that circuit's fail-safe relay. It is designed to support compliance with AS/NZS 5033 (PV arrays) and AS/NZS 5139 (battery systems) when installed to the current editions of those and other applicable local standards.



Dimensions (W × H × D): 170 × 90 × 35 mm

General

Weight
300 g

Dimensions (W × H × D)
170 × 90 × 35 mm

Enclosure
Indoor Type 1 / IP20

Operating temp.
−25 to 60 °C

Storage temp.
−25 to 80 °C

Connection terminals
Lever push-in · 0.2–10 mm² (22–8 AWG)

Low-voltage side

Input voltage
12–60 Vdc

Max current draw (DC input)
100 mA

Alarm relays
2 × signal · dry contact, NO, fail-safe

Communications
USB-C

High-voltage side

Voltage range
40–600 Vdc

Channels
2

Trip thresholds
30 / 50 / 100 kΩ

Default sensitivity
Low (30 kΩ)

Isolation to LV
4 kV transient

One unit · full coverage

Central-point install monitors both array and battery circuits.

Field-tunable

Three trip thresholds adjustable over USB-C with AERL Link.

Multi-channel alarm

Audible, visual, and fail-safe dry-contact relays (open on fault) for remote monitors.

Standards-aligned

Designed to support AS/NZS 5033 and AS/NZS 5139 detection rules. Defer to current local standards.

Manufactured by

Australian Energy Research Laboratories
1/75 Bluestone Circuit, Seventeen Mile Rocks
QLD 4073

Designed to meet

AS/NZS 3100:2017
AS/NZS 61000.6.3:2012

Installation (informative):
AS/NZS 3000, 5033, 5139

Contact

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