EG-600-SC

Single-Channel Insulation Monitor



600 Vdc
Max HV input

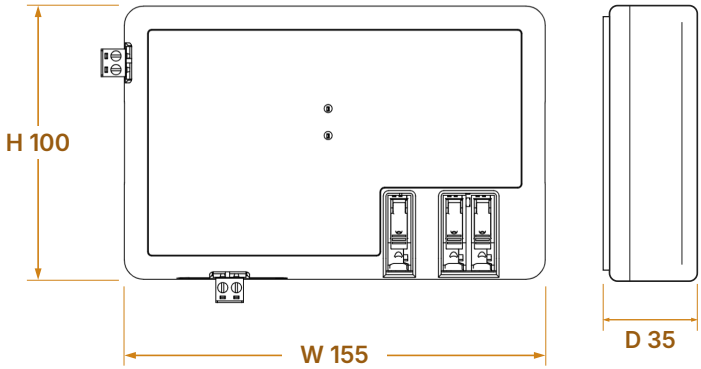
1 channel
Single circuit

30 → 100 kΩ
Trip thresholds

IP20
Indoor Type 1

Specifications

The EarthGuard EG-600-SC continuously monitors the insulation to earth of one DC circuit (40–600 Vdc). On a fault it lights the Fault LED, sounds the buzzer and opens its 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): 155 × 100 × 35 mm

General

Weight
250 g

Dimensions (W × H × D)
155 × 100 × 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 power consumption
2 W

BATT/PSU jumper
Fit for 12–15 Vdc

Alarm relay
1 × signal · dry contact, NO, fail-safe

Communications
USB-C

High-voltage side

Voltage range
40–600 Vdc

Channels
1

Trip thresholds
30 / 50 / 100 kΩ

Default sensitivity
Low (30 kΩ)

Isolation to LV
4 kV transient

Single-channel simplicity

One monitored circuit, for integration with third-party controllers and PCE.

Field-tunable

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

Audio · visual · relay

Onboard buzzer, Fault LED and fail-safe dry-contact relay (open on fault) for remote monitors.

Standards-aligned

Designed to support AS/NZS 5033 and AS/NZS 5139 detection rules.

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

Contact

sales@aerl.com.au
aerl.com.au