



EarthGuard Insulation Monitoring

For PV & Battery Storage Systems

The **EarthGuard EG-600** is a standalone device for integration with approved third-party controllers, power conversion equipment and battery systems.

Utilizing proprietary detection techniques, the AERL EarthGuard Insulation Monitoring Device simultaneously monitors up to two circuits (20 - 600Vdc) for conductor insulation degradation.

The EarthGuard EG-600 monitoring device satisfies the earth fault detection requirements of both AS/NZS 5033:2014 & AS/NZS 5139:2019 with onboard audio/visual alarms, and alarm relay outputs for external fault indication.

Product Highlights



20 - 600V
Monitoring Range



Dual Channel
Monitoring



High Accuracy
Detection



Audio & Visual
Alarms



Signal Indication
Relays



Australian Energy Research Laboratories

2/75 Bluestone Circuit, Seventeen Mile Rocks, QLD

sales@aerl.com.au

www.aerl.com.au

EarthGuard Insulation Monitoring

For PV & Battery Storage Systems

General Specifications

Parameter	Typical
Weight	0.3 kg
Dimensions (H x W x D)	170 x 90 x 35 mm
Enclosure Type	Indoor Type 1 / IP20
Operating Temperature	-25 to 60°C
Storage Temperature	-25 to 80°C
Connection Terminals	Screwless Terminals (0.25 mm ² -> 7 mm ²)

Low Voltage Side

EG-600

Input Voltage Range	15 - 60 Vdc
Max Power Consumption	2W
Alarm Indication Relays (2)	Signal (Dry Contact)
Communications	USB

High Voltage Side

EG-600

Voltage Range	20 - 600 Vdc
Channels	2
Trip Threshold	30kΩ
Isolation to Low Voltage Side	4kV (Transient)

Standards

EG-600

Electrical Safety	AS/NZS 3100:2017
EMC (Domestic)	AS/NZS 61000.6.3:2012

Australian Energy Research Laboratories

📍 2/75 Bluestone Circuit, Seventeen Mile Rocks, QLD ✉ sales@aerl.com.au 🌐 www.aerl.com.au

AERL reserves the right to change any product, product specifications and data without notice to improve reliability, function or design or otherwise.

Copyright © 2024 AERL Pty. Ltd. All Rights Reserved. - REV 006 - 2nd September 2024

