



# 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 (40 - 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



40 - 600V  
Monitoring Range



Dual Channel  
Monitoring



High Accuracy  
Detection



Audio & Visual  
Alarms



Signal Indication  
Relays



## Australian Energy Research Laboratories

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## 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 <sup>2</sup> -> 7 mm <sup>2</sup> )

## 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	40 - 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

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