



# Australian Made Off Grid & Fringe of Grid Battery Storage

**Guardian Series**

Powered by *Polarium*





✓ **Australian Made**

✓ **Australian Support**

✓ **Australian Owned**

✓ **Family Business**

## Why choose Solar Energy Australia?

- ✓ Australian-owned and operated manufacturer, with more than 25 years' experience in the renewable energy sector.
- ✓ Part of the Powerbox group of companies, who are specialists in the design and manufacture of power conversion and UPS equipment for Telecommunications, Railway, Defence and Utility applications.
- ✓ Research & Development, Manufacturing & Warehouse facilities in Sydney, Australia.
- ✓ Australian-owned and supported warranties.
- ✓ Strategic partnership with Swedish battery manufacturer Polarium for development of BSS and BESS products for the Australian market.
- ✓ Dedicated team of engineers to support training, installation and commissioning, and total life support.
- ✓ Solar Energy Australia products only available through registered partner network.



# Polarium Batteries

- Designed and Engineered in **Sweden**
- **Over 350,000+** Batteries Installed Globally, used in all continents and climate zones
- **Trusted** by critical infrastructure organisations across Australia
- One of the fastest growing companies in Europe, recently valued at **> \$1 Billion USD**
- **Advanced BMS** designed by Polarium (not a 3rd Party BMS like many manufacturers)
- All Polarium batteries are a smart and connected device – offering **detailed monitoring capabilities**
- Can be a **managed or self-managed battery** (managed with Victron & SMA, self managed with Selectronic inverters)
- Choice of **battery chemistries** available (LFP + NMC)
- Available in capacities from **100Ah – 250Ah**
- **10 Year Warranty**
- **Local Service and Technical Support** across Australia and New Zealand
- Strong environmental and corporate governance **credentials**

## Polarium 100 Ah Battery

- 48Vdc Nom. / 5.1 kWh / 3RU
- LFP Battery Chemistry
- Powering the Guardian LFPro Series



## Polarium 250 Ah Battery

- 48Vdc Nom. / 5.1 kWh / 4RU
- NMC Battery Chemistry
- Powering the Guardian Series



## Polarium Solar Inverter Interface

- Pre-charge & Communication Unit
- Limits inrush current to connected inverters
- Makes battery data available in mobile app via Bluetooth





# Guardian Series

The original Guardian Series, also designed and manufactured in Australia, is powered by reliable & robust Polarium NMC lithium-ion batteries. Purpose-built for applications requiring larger battery energy storage in a compact footprint. Polarium NMC batteries are the trusted choice by critical infrastructure organisations across Australia.

**Guardian 38** - 38 kWh | 3 x 250Ah NMC

**Guardian 50** - 50 kWh | 4 x 250Ah NMC



**DISCOVER MORE ABOUT  
THE GUARDIAN SERIES**



## Smart

Accurately monitor key battery parameters and system performance via Bluetooth and supported inverter platforms. Know in real-time how your battery system is performing with accurate State of Charge (SOC), State of Health (SOH), Current, Voltage and Temperature readings.



## Price Competitive

The Guardian series is not only the safest, most reliable, and smartest battery storage system on the market but also one of the most price-competitive. The Guardian series offers excellent value for money, making it an ideal choice for those looking to maximize the benefits of their solar installations.



## Flexible

The Guardian Series is a 'plug and play' pre-assembled battery system, designed with solar installers in mind that is compliant with AS5139 installation requirements and the Clean Energy Council's 'Best Practice Guide'. It supports a range of inverter/charger platforms and can be configured for both 'AC Coupled' and 'DC Coupled' solar installations, making it an extremely flexible platform.



## High-Energy Density

Available in 4 models – 20 kWh, 25 kWh, 38 kWh and 50 kWh, the Guardian is the highest energy density and smallest footprint pre-wired battery system available on the Australian market. Larger battery systems can be easily configured by paralleling multiple cabinets via an external DC busbar.

# Guardian LFP Pro Series

Designed and manufactured in Australia, the Guardian LFP Pro Series is powered by Swedish engineered Polarium LFP lithium-ion batteries to provide reliable backup battery power to off grid and fringe of grid households and businesses.

**Guardian LFP Pro 20** - 20 kWh | 4 x 100Ah LFP

**Guardian LFP Pro 25** - 25 kWh | 5 x 100Ah LFP



**DISCOVER MORE ABOUT  
THE GUARDIAN LFP PRO SERIES**



## **Australian-Made & Supported**

Designed and manufactured in Australia, backed by a transparent 10-year warranty and lifelong support.



## **Safety**

Exceeds safety standards with 5 layers of embedded protection and the most advanced Battery Management System, ensuring safety even under abnormal conditions.



## **Reliable**

Equipped with a wide operating temperature range, patented Current Limiting Device (CLD), integrated pre-charge circuit, and 'black start' feature for world-class reliability.





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**Solar  
Energy  
Australia**

A Powerbox Company