

Guardian LFPro Series

20 kWh | 25 kWh

Pre-assembled Battery System for Off-Grid & Fringe of Grid Households and Businesses



Designed and manufactured in Australia, with solar installers in mind, the Guardian LFPro Series is powered by Swedish engineered Polarium smart lithium-ion batteries to provide reliable backup power.

FEATURES

- **LFP Chemistry:** Powered by Swedish engineered Polarium battery modules, the Guardian LFPro Series utilises Lithium Iron Phosphate (LFP) chemistry for exceptional safety, longevity, and environmental friendliness.
- **Smart Monitoring:** Real-time monitoring of battery parameters and performance via Bluetooth and supported inverters, accurately tracking SOC, SOH, Current, Voltage, and Temperature.
- **Proven Performance:** Trusted by critical infrastructure across Australia for reliable backup power in essential services.
- **Flexible Installation:** Compliant with industry standards, supporting various inverter/charger platforms and installation types (AC Coupled & DC Coupled).
- **Cost of Ownership:** Combines safety, reliability, and smart features with affordability, maximizing solar benefits.



Polarium

Australian-Made & Supported

Designed and manufactured in Australia, backed by a transparent 10-year warranty and lifelong support. Founded in 1996, Solar Energy Australia is one of the few companies with more than 25 years of experience in renewable energy and off-grid power.



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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| | Guardian LFP Pro 20 | Guardian LFP Pro 25 |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Nominal Capacity¹ [kWh] | 20.4 kWh | 25.6 kWh |
| Usable Energy @ 80% DOD [kWh] | 16.38 kWh | 20.48 kWh |
| Nominal Voltage [Vdc] | 51.2 VDC | |
| Chemistry | Lithium Iron Phosphate (LFP) | |
| Recommended Charge Voltage [Vdc] | 54.4Vdc – 57.6Vdc. | |
| End of Discharge Voltage [Vdc] | 50.2Vdc | |
| Discharge Current [Arms] | | |
| - Max. Peak (60 Seconds) | 380 Arms | 475 Arms |
| - Max. Continuous | 250 Arms | 250 Arms |
| Discharge Current [A dc] | | |
| - Max. Peak (< 60 Seconds) | 500A dc | 625A dc |
| Rated Continuous DC Power [kW] | 10.4 kW | |
| Maximum Charge Current [A dc] | 200A | 250A |
| Pre-wired MCCB rating | 2-Pole 250A | |
| Efficiency (%) | >96% | |
| Operating Ambient Temperature [°C] | | |
| - Charging | 0°C to +50°C | |
| - Discharging | -20°C to +50°C | |
| Cooling | | |
| - Battery Module | Natural Convection | |
| - Cabinet | Thermostatically Controlled Fan | |
| Electrical Safety | Complies to 'Best Practice Guide for Battery Storage Equipment – Electrical Safety Requirements – Version 1' | |
| Safety Standards | AS IEC62619, AS/NZS 62368-1, UN38.3 (Battery Module) | |
| EMC Standards | RCM, ETSI EN 300 386 1.6.1 (2012-09) | |
| Dimensions [MM] | 685 mm (W) x 763 mm (D) x 1280 mm (H) | |
| Weight [KG] | | |
| - Cabinet Only | 200 KG | |
| - Battery Modules Installed | 360 KG | 400 KG |
| Protection Class | IP20 | |
| Connections | Via Amphenol Surelok 10.3mm (pre-terminated cable supplied) + RJ45 (x4) | |
| Warranty³ | 10 years | |
| Inverter Compatibility | Victron Energy (EasySolar, MultiPlus, Quattro), Selectronic (SP Pro SPMC480-AU / SPMC481-AU / SPMC482-AU), SMA (Sunny Island 4.4M / 6.0H / 8.0H), CE+T Power (Sierra 25) | |

¹ Based on discharge of 0.2C at 25°C to 40Vdc. ² Based on nom. voltage at 25°C. ³ When operated in accordance with warranty conditions.