



PRIME 3

Three Phase Energy Storage System

- ✓ On-grid or off-grid
- ✓ 48, 54, & 60kWh storage options
- ✓ 15kW & 22.5kW power options
- ✓ Indoor / outdoor rated
- ✓ LG Chem battery technology
- ✓ Selectronic inverter technology
- ✓ Advanced monitoring & VPP control
- ✓ 10 year inverter & battery warranties

Proudly made & supported in Australia

PRIME 3 SERIES SPECIFICATIONS

	Prime3-15kW	Prime3-22.5kW	
INVERTER OUTPUTS (AC)			
Continuous AC load power from batteries :	15 kW - Three Phase		22.5 kW - Three Phase
Max. AC load power :	24 kW (48kWh +)	30 kW (60kWh)	24 kW (48kWh +) / 30 kW (60kWh)
Nominal voltage in Off Grid	240 V AC configurable 210 to 240 V AC		
Total Harmonic Distortion in Off Grid	<3%		
Frequency in Off Grid	50 Hz		
Peak Efficiency	96%		
INVERTER SOURCE INPUTS (AC)			
Nominal Voltage	210 V AC +/- 15% to 240 V AC +/- 10%		
Nominal Input Frequency	50 Hz		
AC Transfer current capacity	63A / 15 kW per phase (larger possible with external contactor)		
Max AC input source (Grid or Generator)	15 kW per phase (larger possible with external contactor)		
Switching time from grid/generator and batteries	Less than 0.03 seconds		
Max AC charging from grid or generator / DC Current per phase	15 kW / 104 A	22.5 kW / 156 A	
Overvoltage Category	III		
BATTERY SPECIFICATIONS			
	48 kWh MODEL	54 kWh MODEL	60 kWh MODEL
Number of 6.5kWh battery modules	8	9	10
Nominal battery voltage	51.8 V DC		
Operating voltage range / Max. user SOC range	47.8 V DC > 57.8 V DC / 3% SOC > 100% SOC		
Nominal energy (DC) ¹	52 kWh	58.5 kWh	65 kWh
Max. useable energy (DC) ¹	48 kWh	54 kWh	60 kWh
Max. useable energy (AC) ¹ (After inverter & cable losses at BOL)	45.6 kWh	51.3 kWh	57 kWh
Max. discharge current (DC)	504A	567A	630A
Number of modules able to expand within first year	Up to 2 more (10 max)	1 more (10 max)	0 (10 max)
Battery DC round trip efficiency	Greater than 95%		
Overvoltage Category (DC)	II		
ENVIRONMENTAL			
Installation location	Indoors or Outdoors (not in direct sunlight)		
Ingress Protection rating	IP 45		
Ambient Operating Temperature	-3 ~ 45 °C		
Humidity / Altitude	5%~95% / Less than 2,000 m		
Pollution Category	3		
FEAUTURES			
Built in remote monitoring functionality	YES – EVO Power consumer monitoring portal & Select. Live for remote programming and monitoring (internet essential)		
VPP & Grid services platform	YES – Optional via EVO Power Monitoring platform for VPP		
AC & DC Isolation devices	Internal & External DC Isolation prewired and included, external AC breakers prewired and included in EVO Isolation box		
Generator Backup	Inbuilt control for Off Grid installations, Optional for On-Grid systems using a separate Grid Fail Backup module		
AC Coupling functionality	Compatible - Prewired Comms cable for managed SCERT solar inverters with 2x battery inverters rating capacity, 1x battery inverter rating for generic solar inverters allowed on load side of system		
Warranty ²	Up to 10 years on inverter & up to 10 years performance warranty on the battery modules, 3 years on all other components		
COMPLIANCE			
Battery related standards	IEC 62619, UL 1973, UL 1642, CE, RCM		
Inverter related standards	AS 4777.2:2015, IEC 62109-1, IEC 62109-2, IEC 62040-1:2002 / AS 62040-1-1:2003		
System & other related standards	IEC 62109-1, IEC 62109-2, Certificate of Suitability		
DIMENSIONS & WEIGHTS			
System dimensions (L x H x W)	1460 x 1600 x 605 mm for main enclosure + 400 x 500 x 200 mm EVO Isolation box		
Weight of the system without battery modules	350kg approx. (each battery modules is 44kg)		

- Useable energy & Nominal Energy is based on beginning of battery life at 25°C and at peak efficiency charge/discharge rate
- Please refer to the detailed warranty documentation at the EVO Power website www.evopower.com.au
All specifications are at 25°C and rated DC input voltage unless otherwise stated, values may be different at higher or lower temperatures.
Specifications may be updated without notice so please refer to the EVO Power website for the current information