



ON-GRID & OFF-GRID BATTERY POWER SOLUTIONS



PRIME 1

Single Phase Energy Storage System

- ✓ On-grid or off-grid
- ✓ Scalable storage: 24 to 60kWh
- ✓ 5kW & 7.5kW 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 1 SERIES SPECIFICATIONS

	Prime1-5kW				Prime1-7.5kW			
INVERTER OUTPUTS (AC)								
Continuous AC load power from batteries :	5 kW - Single Phase				7.5 kW - Single Phase			
Max. AC load power :	12 kW				12 kW (24kWh)		15 kW (30kWh +)	
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 (larger possible with external contactor)							
Max AC input source (Grid or Generator)	15 kW							
Switching time from grid/generator and batteries	Less than 0.03 seconds							
Max AC charging from grid or generator / DC Current per phase	5 kW / 104 A				7.5 kW / 156 A			
Overvoltage Category	III							
BATTERY SPECIFICATIONS								
	24 kWh MODEL	30 kWh MODEL	36 kWh MODEL	42 kWh MODEL	48 kWh MODEL	54 kWh MODEL	60 kWh MODEL	
Number of 6.5kWh battery modules	4	5	6	7	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)	26 kWh	32.5 kWh	39 kWh	45.5 kWh	52 kWh	58.5 kWh	65 kWh	
Max. useable energy (DC)	24 kWh	30 kWh	36 kWh	42 kWh	48 kWh	54 kWh	60 kWh	
Max. useable energy (AC) (After inverter & cable losses at BOL)	22.8 kWh	28.5 kWh	34.2 kWh	39.9 kWh	45.6 kWh	51.3 kWh	57 kWh	
Max. discharge current (DC)	252A	315A	378A	441A	504A	567A	630A	
Number of modules able to expand within first year	Up to 6 more (10 max)	Up to 5 more (10 max)	Up to 4 more (10 max)	Up to 3 more (10 max)	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							
ENVIROMENTAL								
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	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	250kg 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