



ON-GRID
& OFF-GRID BATTERY
POWER SOLUTIONS



M48-Select Packages

≡ Three-Phase Specifications

Proudly Made & Supported in Australia

	M48-Select 15kW packages		M48-Select 22.5kW packages	
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)	52 kWh	58.5 kWh	65 kWh	
Max. useable energy (DC)	48 kWh	54 kWh	60 kWh	
Max. useable energy (AC) (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 (extra cabinet will be required)	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			
Ingress Protection rating	IP 20			
Ambient Operating Temperature	-3 ~ 45 °C			
Humidity / Altitude	5%~95% / Less than 2,000 m			
Pollution Category	3			
FEATURES				
Built in remote monitoring functionality	YES – Select. Live for remote programming and monitoring (internet essential)			
VPP & Grid services platform	YES – Optional via EVO Power Monitoring platform for VPP			
DC Isolation devices	Internal DC Isolation prewired and included			
Generator Backup	Inbuilt control for Off Grid installations, Optional for On-Grid systems using a separate Grid Fail Backup module			
AC Coupling functionality	Compatible with 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			
DIMENSIONS & WEIGHTS				
System dimensions (W x D x H)	600 x 800x 990 mm per enclosure + 375 x 220 x 690 mm for each inverter			
Weight of the system components	100kg per enclosure, 44 or 47kg per inverters and 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