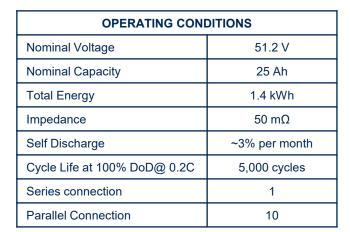




Technical Specifications 1.4

LITHIUM IRON PHOSPHATE BATTERY

48V LiFePO₄



DISCHARGE	
Standard Continuous discharge	10 A (20+ min)
Maximum Continuous Discharge Current	25 A (10 min)
Peak Discharge Current	30 A (1 min)
PCM Discharge Current Cut-off	40 A (3 seconds)
Max Solar Recommended Low Voltage Disconnect	42 V
Short Circuit Protection	200-500µs

CHARGE	
Charge/discharge efficiency	>97% @ 0.5C
Recommended Charge Current	10 A
Peak Charge Current	25 A
PCM Charge Current Cut-Off	28 A

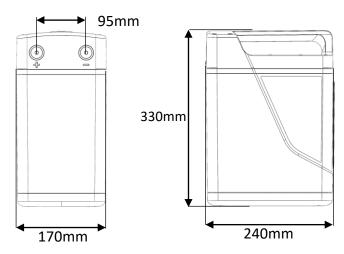
TEMPERATURE	
Storage Temperature	-20 to 60°C
Discharge Temperature Range	-10 to 60°C
Charge Temperature Range	0 to 45°C



MECHANICAL		
Chemistry	Cylindrical – LiFePO₄	
Case Dimensions	L330xW170xH240(mm)	
Weight	Circa 15 kg	
Terminal Type	M8 brass threaded insert	
Terminal Torque	≤5 Nm	
Casing Type	V0 Plastic Case	
Casing IP	TBC	
Communication	RS485 via USB-A port	

BATTERY MANAGEMENT	
BMS Type	Passive
BMS Location	Internal
Balance Current per Cell	50 mA
Overcharge / Discharge Current	40 A

SAFETY	
Transportation Classification	UN3480, Class 9
Battery Certification	CE, UN38.3, RoHS
UN Certification (Cells)	UN38.3









Technical Specifications 1.4

LITHIUM IRON PHOSPHATE BATTERY

48V LiFePO₄

DISCHARGE SPECIFICATIONS		
Nominal Voltage	51.2 V	
1 second rate constant power to 10.5 V at 20°C	2048 W/40 A	
1 min rate constant power to 10.5 V at 20°C	1536 W/30 A	
10 min rate constant power to 10.5 V at 20°C	1280 W/25 A	
20+ min rate constant power to 10.5 V at 20°C	512 W/10 A	
Short circuit current	+40 A BMS regulated	
10 hr rate capacity to 10.5V	23.53 Ah	

CHARGE SPECIFICATIONS		
Bulk Charge Voltage	56.8-58.4 V	
Float charge Voltage*	56.8-58.4 V	
Cyclic (or boost charge) at 20°C	N/A	
Charge current	10 A recommended	
Charge current peak	25 A max	
Charge time at 12 A Bulk charge to 29.2V	2.5 hours	
Charge time at 12 A Bulk charge to 28.8V	2.25 hours	



^{*} Lithium iron phosphate batteries do not require a float charge hence the bulk charge voltage and float charge voltage are the same





Technical Specifications 1.4

LITHIUM IRON PHOSPHATE BATTERY

The Advantage

- Same Group size, New Voltage 48V 25Ah
- High Performance
 25A continuous current to 40A surge
- Greater flexibility
 Available in 12,24 &48V, Easy maintenance,
 Upgrade
- Improved Usability
 Easy carry handle

