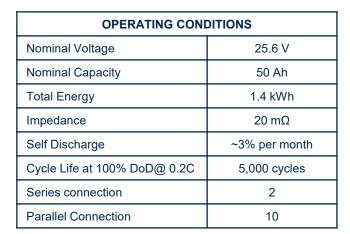




#### **Technical Specifications 1.4**

LITHIUM IRON PHOSPHATE BATTERY

## 24V LiFePO<sub>4</sub>



DISCHARGE		
Standard Continuous discharge	25 A (20+ min)	
Maximum Continuous Discharge Current	50 A (10 min)	
Peak Discharge Current	60 A (1 min)	
PCM Discharge Current Cut-off	75 A (3 seconds)	
Max Solar Recommended Low Voltage Disconnect	21 V	
Short Circuit Protection	200-500µs	

CHARGE	
Charge/discharge efficiency	>97% @0.5C
Recommended Charge Current	20 A
Peak Charge Current	50 A
PCM Charge Current Cut-Off	55 A

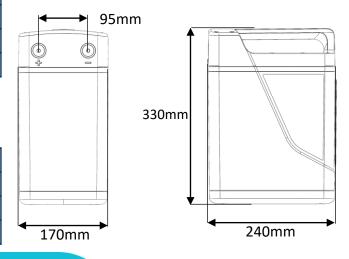
TEMPERATURE	
Storage Temperature	-20 to 60°C
Discharge Temperature Range	-10 to 60°C
Charge Temperature Range	0 to 45°C



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	75 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

# 24V LiFePO<sub>4</sub>

DISCHARGE SPECIFICATIONS		
Nominal Voltage	25.6 V	
1 second rate constant power to 10.5 V at 20°C	1920 W/75 A	
1 min rate constant power to 10.5 V at 20°C	1536 W/60 A	
10 min rate constant power to 10.5 V at 20°C	1280 W/50 A	
20+ min rate constant power to 10.5 V at 20°C	640 W/25 A	
Short circuit current	+75 A BMS regulated	
10 hr rate capacity to 10.5V	48.03 Ah	

CHARGE SPECIFICATIONS	
Bulk Charge Voltage	28.4-29.2 V
Float charge Voltage*	28.4-29.2 V
Cyclic (or boost charge) at 20°C	N/A
Charge current	20 A recommended
Charge current peak	50 A max
Charge time at 25 A Bulk charge to 29.2V	2.5 hours
Charge time at 25 A Bulk charge to 28.8V	2.25 hours



<sup>\*</sup> 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 24V 50Ah
- High Performance
  50A continuous current to 75A surge
- Greater flexibility
  Available in 12,24 &48V, Easy maintenance,
  Upgrade
- Improved Usability
  Easy carry handle

