

Lithium Iron Phosphate (LiFePO4) Battery		48V-50AH	48V-70AH	48V-100AH
Electrical Characteristics	Nominal Voltage	48V	48V	48V
	Nominal Capacity	50Ah	70Ah	100Ah
	Energy	2400Wh	3360Wh	4800Wh
	Internal Resistance	≤ 50mΩ	≤ 50mΩ	≤ 50mΩ
	Cycle Life	6500cycles @ 25°C	6500cycles @ 25°C	6500cycles @ 25°C
	Months Self Discharge	<3%	<3%	<3%
	Efficiency of Charge	100% @ 0.2C	100% @ 0.2C	100% @ 0.2C
	Efficiency of Discharge	96-99% @ 0.5C	96-99% @ 0.5C	96-99% @ 0.5C
	Charge Voltage	54.8±0.1V	54.8±0.1V	54.8±0.1V
	Charge Mode	0.2C to 57.6V, then 57.6V, charge current to 0.02C (CC/CV)	0.2C to 57.6V, then 57.6V, charge current to 0.02C (CC/CV)	0.2C to 57.6V, then 57.6V, charge current to 0.02C (CC/CV)
Standard Charge	Charge Current	25A	50A	50A
	Max. Charge Current	50A	70A	80A
	Charge Cut-off Voltage	58.5V±0.1V	58.5V±0.2V	58.5V±0.2V
	Continuous Current	40A	60A	80A
Standard Discharge	Max continuous discharge current	50A	70A	100A
	Discharge Cut-off Voltage	37.5V	37.5V	37.5V
	Charge Temperature	0°C to 45°C (32F to 113F) @60±25% Relative Humidity	0°C to 45°C (32F to 113F) @60±25% Relative Humidity	0°C to 45°C (32F to 113F) @60±25% Relative Humidity
Operational	Discharge Temperature	-20°C to 60°C (-4F to 140F) @60±25% Relative Humidity	-20°C to 60°C (-4F to 140F) @60±25% Relative Humidity	-20°C to 60°C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0°C to 40°C (32F to 104F) @60±25% Relative Humidity	0°C to 40°C (32F to 104F) @60±25% Relative Humidity	0°C to 40°C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	IP56	IP56	IP56
Mechanical	Cell & Method	32700 6Ah Cylindrical cells	32700 6Ah 15S12P	32700 6Ah Cylindrical cells
	Shell material	Iron(SPOC)	Iron(SPOC)	Iron(SPOC)
	Dimensions (in./mm.)	412 x 438 x 135	450 x 438 x 178	650 x 438 x 178
	Weight (lbs./kg.)	Approx.31kg	Approx. 45kg	Approx. 55kg
	Gravimetric specific energy	80WH/KG	80WH/KG	80WH/KG
	Protocol (optional)	RS485/RS232	RS485/RS232/CAN Bus	RS485/RS232
	SOC (optional)	LED	LED	LED