



**MODEL: IC-24V50-EP**

## Lithium Ion Deep Cycle Battery

### ELECTRICAL SPECIFICATIONS

Nominal Voltage	24 V
Nominal Capacity	50 Ah
Capacity @ 25A	120 min
Energy	1280 Wh
Resistance	≤30 mΩ @50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	0

### DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	50 A@25°C
Peak Discharge Current	140A (3s)
BMS Discharge Current Cut-Off	150A (3s)
Recommended Low Voltage Cut-Off	22 V
BMS Discharge Voltage Cut-Off	20 V
Reconnect Voltage	22.4V
Short Circuit Protection	200-600 μs

### TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140°F (-20 to 60°)
Charge Temperature	-4 to 113°F (-20 to 45°C)
Storage Temperature	23 to 95°F (-5 to 35°C)
BMS High Temperature Cut-Off	149°F (65°C)
Reconnect Temperature	122°F (50°C)

### MECHANICAL SPECIFICATIONS

Dimensions (Lx W x H)	12.55 x 6.5 x 9.2"
	318 x 165 x 215 mm
Weight	28 lbs (12.7 kg)
Terminal Type	3/8-16 Threaded UNC
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP55
Cell Type - Chemistry	Prismatic- LiFePO <sub>4</sub>

### CHARGE SPECIFICATIONS

Recommended Charge Current	25A
Maximum Charge Current	50A@25°C
Recommended Charge Voltage	24.4 V - 25.2 V
BMS Charge Voltage Cut-Off	30.4 V
Reconnect Voltage	28.8 V

### COMPLIANCE SPECIFICATIONS

Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
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### FEATURES

Bluetooth APP



**Monitor your battery's  
vitals straight from  
your smartphone.**

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