



IC-48V27-HP

Lithium Deep Cycle Battery

ELECTRICAL SPECIFICATIONS

Nominal Voltage	48V
Nominal Capacity	27Ah (1,382Wh)
Capacity @ 25A	55 min
Energy	1,382Wh
Resistance	≤30 mΩ @50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	0

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	150A
Peak Discharge Current	500A (7.5 s ± 2.5 s)
BMS Discharge Current Cut-Off	±50A (9 ± ms)
Recommended Low Voltage Cut-Off	11 V
BMS Discharge Voltage Cut-Off	32V (2.0 ±.08 vpc)(140 ±60ms)
Reconnect Voltage	36.8V (2.3 ± .1 vpc)
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	176°F (80°C)
Reconnect Temperature	122°F (50°C)

MECHANICAL SPECIFICATIONS

Dimensions (Lx W x H)	10.2 x 7.1 x 10.4in (260 x 180 x 265mm)
Weight	33.1lbs (15.0kg)
Terminal Type	3/8 UNC
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Prismatic - LiFePO ₄

CHARGE SPECIFICATIONS

Recommended Charge Current	20A
Maximum Charge Current	30A
Recommended Charge Voltage	56.8V - 58.4V
BMS Charge Voltage Cut-Off	62.4V (3.9 ±.025 vpc) (1.1±.4 s)
Reconnect Voltage	60.2V (3.8 ±.05 vpc)
Balancing Voltage	57.6V (3.6 ±.025 vpc)

COMPLIANCE SPECIFICATIONS

Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, Class 9

