



## LiFePO4 Deep Cycle Battery ALS-12150BT



### ENERGY STORAGE SOLUTIONS

LiFePO4 chemistry battery with safe performance and longer cycle life, offers you various capacities options to meet different requirements. Lighter weight than lead acid batteries but with higher power. It delivers twice the power of lead acid battery, even at high discharge rates, while maintaining higher energy capacity.

Wide Temperature Range • High Safety • IP65 Protection • Flexible Expansion

## Features and Advantages



**APP Monitoring**  
Remote upgrade available



**IP65**  
High protection level



**Expandable**  
Higher capacity available



**High Safety**  
LFP & smart BMS



**Longer Cycle Life**  
≥6000 cycles <sup>(1)</sup>



**Wide Temperature Range**  
Range of -20 to 60 °C

# Technical Parameters

Model	LiFePO4 Deep Cycle Battery ALS-12150BT (1920Wh)
<b>ELECTRICAL SPECIFICATIONS</b>	
Nominal Voltage	12.8V
Nominal Capacity	150 Ah
Capacity @ 30A	300 min
Resistance	≤10 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	4
<b>CHARGE SPECIFICATIONS</b>	
Recommended Charge Current	30 A
Maximum Charge Current	100 A
Recommended Charge Voltage	14.2 V – 14.6V
BMS Charge Voltage Cut-Off	15.0 V (3.75 ±0.025 v) (2 s)
Reconnect Voltage	14.0 V (3.5 ±0.05 v)
Balancing Voltage	13.6 V (3.4 ±0.025 v)
<b>DISCHARGE SPECIFICATIONS</b>	
Maximum Continuous Discharge Current	100 A
Peak Discharge Current	300 A (1-3 s)
BMS Discharge Current Cut-Off	300 A (1-3 s)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	9.6 V (2.4 ±0.08 v) (2s)
Reconnect Voltage	10.4 V (2.6 ±0.1 v)
Short Circuit Protection	200-600 μs
<b>TEMPERATURE SPECIFICATIONS</b>	
Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 131 °F (0 to 55 °C)
Storage Temperature	14 to 113 °F (-10 to 45°C)
BMS High Temperature Cut-Off	167 °F (75 °C)
Reconnect Temperature	122°F (50 °C)
<b>MECHANICAL SPECIFICATIONS</b>	
Dimensions (L x W x H)	12.95 x 6.77 x 8.42 inch 329 x 172 x 214 mm
Weight	24.2 lbs (11.0 kg)
Terminal Type	M8 x 1.25
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP65
Cell Type - Chemistry	LiFePO4
<b>COMPLIANCE SPECIFICATIONS</b>	
Certifications	UN38.3 (battery) CE (battery) UL1973 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9
Cycle Test Conditions:0.2C Charging/Discharging, @25°C,80% DOD.	