

## LiFePO4 Deep Cycle Battery ALS-24120BT



## **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 betteries but with higher power. It deliver twice power of lead acid battery, even high discharge rate, while maintaining higer 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 Cyle Life ≥6000 Cycles <sup>(1)</sup>



Wide Temperature Range Range of -20 to 60 °C

## **Technical Parameters**

Model	LiFePO4 Deep Cycle Battery ALS-24120BT (3072Wh)
ELECTRICAL SPECIFICATIONS	ALO-24 12001 (0072WII)
Nominal Voltage	25.6V
Nominal Capacity	120 Ah
Capacity @ 24A	300 min
Resistance	≤15 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series∥	2S4P
Warranty	3years
Cycle Life (1)	≥6000 Cycles
CHARGE SPECIFICATIONS	
Recommended Charge Current	24 A
Maximum Charge Current	60 A
Recommended Charge Voltage	28.4 V – 29.2 V
BMS Charge Voltage Cut-Off	30.0 V (3.75 ±0.025 v) (2s)
Reconnect Voltage	28.0 V (3.5 ±0.05 v)
Balancing Voltage	27.2V (3.4 ±0.025 v)
DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current	60A
Peak Discharge Current	180 A (1-3s)
BMS Discharge Current Cut-Off	180 A (1-3s)
Recommended Low Voltage Disconnect	22 V
BMS Discharge Voltage Cut-Off	19.2 V (2.4 ±0.08 vpc) (2s)
Reconnect Voltage	20.8V (2.6 ±0.1v)
Short Circuit Protection	200-600 µs
TEMPERATURE SPECIFICATIONS	200 000 μο
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)
MECHANICAL SPECIFICATIONS	122 1 (66 6)
	20.55 x 9.45 x 8.58 inch
Dimensions (L x W x H)	522 x 240 x 218 mm
Weight	48.5 lbs (23.0 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
COMPLIANCE SPECIFICATIONS	En 61 67
Certifications	N/A
Shipping Classification	UN 3480, CLASS 9
Cycle Test Conditions:0.2C Charging/Discharging, @25℃,80% DOD	· ·







