LITHIUM IRON PHOSPHATE BATTERY



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Advantages of the FLYBAT lithium iron phosphate (LiFeP04) batteries:

- 5 year manufacturer's warranty
- The safest technology, without the risk of fire or explosion
- Integrated BMS
- Long service life
- Steadily improving storage capacity
- 99 % efficient
- High stability even under extreme loads
- No memory effect no need for full charge and discharge cycles
- High performance even under extreme conditions
- Deep and steady discharge and charging efficiency
- Small size and light weight

ELECTRICAL SPECIFICATIONS				
Nominal Voltage	12.8 V	Resistance	90 mΩ	
Nominal Capacity	12 Ah	Efficiency	99%	
Capacity @ 25A	24 min	Self Discharge	<3% per Month	
Energy	128 Wh	Maximum Modules in Series/parallel	4/4	

MECHANICAL SPECIFICATIONS

	Length	151 mm
Dimensions	Width	98 mm
	Height	101 mm
Weight		1.65 kg
Terminal Type		T2
Cell Type		Cylindrical
Case Material		ABS
Enclosure Protection		IP56
Chemistry		LiFePO ₄

TEMPERATURE SPECIFICATIONS	
Discharge Temperature	-20 to 60 °C
Charge Temperature	O to 55 °C
Storage Temperature	-20 to 60 °C
PCM High Temperature Cut-Off	80 °C

CHARGE SPECIFICATIONS

Recommended Charge Current	5 A
Maximum Charge Current	10 A
Recommended Charge Voltage	14.2 V - 14.6 V
PCM Charge Voltage Cut-Off	15.6 V
Reconnect Voltage	15.2 V
Balancing Voltage	14.4 V

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	12 A
Peak Discharge Current	24 A
PCM Discharge Current Cut-Off	30 A
Recommended Low Voltage Disconnect	11 V
PCM Discharge Voltage Cut-Off	8 V
Reconnect Voltage	10 V
Short Circuit Protection	Yes



DIMENSIONAL SPECIFICATIONG









DIFFERENT TEMPERATURE SELF DISCHARGE CURVE









DIFFERENT DOD DISCHARGE CYCLE LIFE @1C



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