















LifePO4

LITHIUM IRON PHOSPHATE BATTERY



Advantages of the FLYBAT lithium iron phosphate (LiFePO4) 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	<30 mΩ	
Nominal Capacity	165 Ah	Efficiency	99%	
Capacity @ 0.2C	>290 min	Self Discharge	<3% per Month	
Energy	2112 Wh	Maximum Modules in Series/parallel	4	

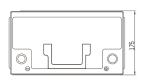
MECHANICAL SPECIFICATIONS				
	Length	355 mm		
Dimensions	Width	175 mm		
	Height	188 mm		
Weight		16,2 kg		
Terminal Type		АР		
Terminal Torque		80 - 100 in-lbs (9- 11 N-m)		
Case Material		ABS		
Enclosure Protection		IP56		
Chemistry		LiFePO ₄		

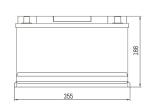
TEMPERATURE SPECIFICATIONS	
Discharge Temperature	-20 to 60 $^{\circ}$ C
Charge Temperature	0 to 55 °C
Storage Temperature	-20 to 60 °C
PCM High Temperature Cut-Off	80 °C

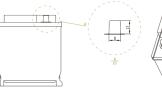
CHARGE SPECIFICATIONS	
Recommended Charge Current	<50 A
Maximum Charge Current	100 A
Recommended Charge Voltage	14.2 V - 14.6 V
PCM Charge Voltage Cut-Off	15.6 V
Reconnect Voltage	15.2 V
Balancing Voltage	14.4 V

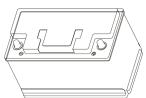
DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current	150 A
Peak Discharge Current	200 A
PCM Discharge Current Cut-Off	-
Recommended Low Voltage Disconnect	11 V
PCM Discharge Voltage Cut-Off	10 V
Reconnect Voltage	12 V
Short Circuit Protection	Yes

DIMENSIONAL SPECIFICATIONG

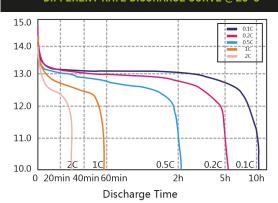




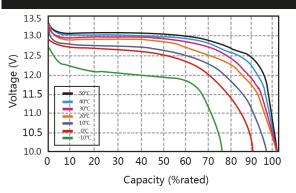




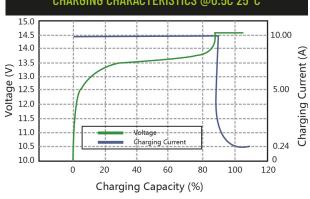
DIFFERENT RATE DISCHARGE CURVE @25°C



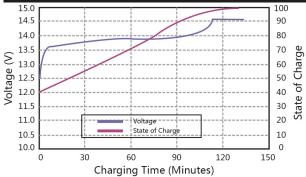




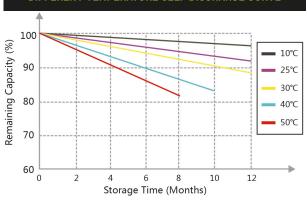
CHARGING CHARACTERISTICS @0.5C 25°C



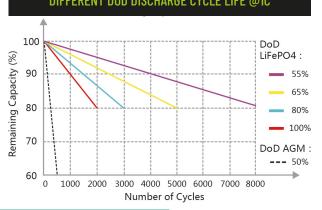




DIFFERENT TEMPERATURE SELF DISCHARGE CURVE



DIFFERENT DOD DISCHARGE CYCLE LIFE @1C



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