



FLYBAT

LiFePO₄

LITHIUM IRON PHOSPHATE BATTERY



PRODUCT IMAGE



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
- Extremely long service life > 2000 cycles/100% DOD, > 3000 cycles/80% DOD, >9000 cycles/50% DOD
- Steadily improving storage capacity
- 99 % efficient, smaller size and weight
- 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

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V	Resistance	30 mΩ
Nominal Capacity	150 Ah	Efficiency	99%
Capacity @ 25A	360 min	Self Discharge	<3% per Month
Energy	1920 Wh	Maximum Modules in Series/parallel	4/4

MECHANICAL SPECIFICATIONS

Dimensions	Length	483 mm
	Width	170 mm
	Height	240 mm
Weight	18,2 kg	
Terminal Type	M8	
Terminal Torque	9 - 11 N-m	
Case Material	ABS	
Enclosure Protection	IP56	
Chemistry	LiFePO ₄	

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-20 to 60 °C
Charge Temperature	0 to 55 °C
Storage Temperature	-20 to 60 °C
PCM High Temperature Cut-Off	80 °C

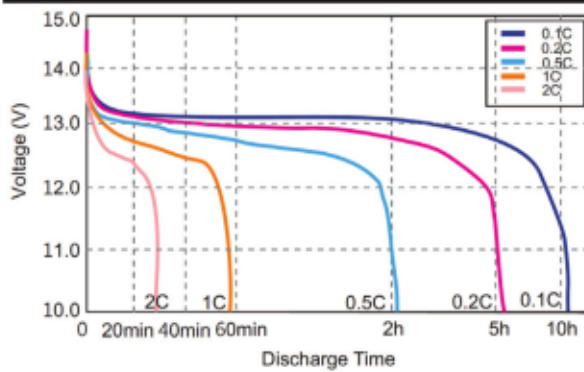
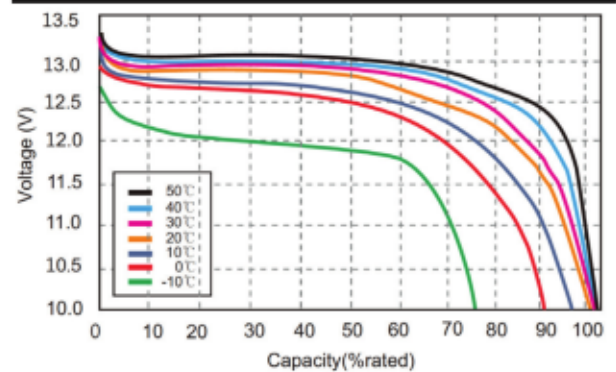
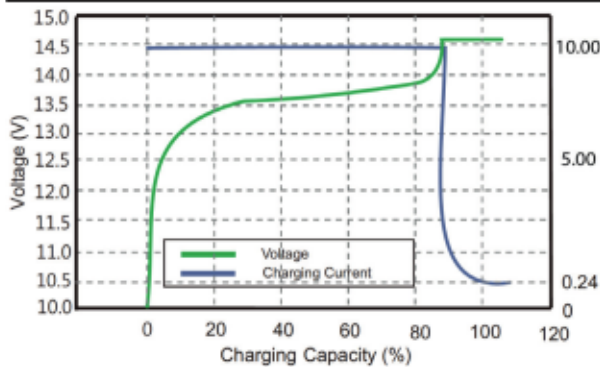
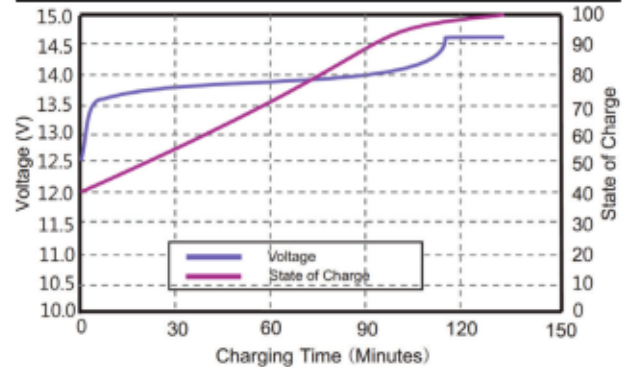
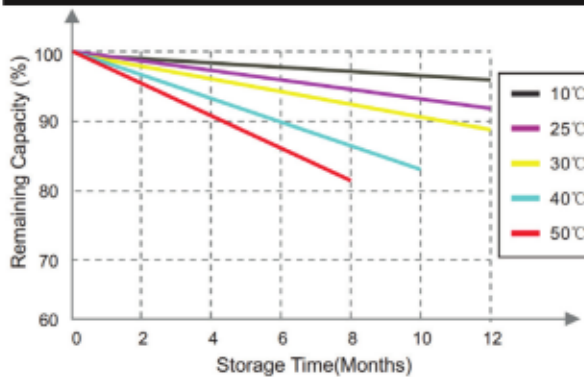
CHARGE SPECIFICATIONS

Recommended Charge Current	30 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	100 A
Peak Discharge Current	200 A
PCM Discharge Current Cut-Off	280 A (±50 A)
Recommended Low Voltage Disconnect	11 V
PCM Discharge Voltage Cut-Off	10 V
Reconnect Voltage	9.2 V
Short Circuit Protection	Yes

DIMENSIONAL SPECIFICATIONS

DIFFERENT RATE DISCHARGE CURVE @25°C

DIFFERENT TEMPERATURE DISCHARGE CURVE @0.5C

CHARGING CHARACTERISTICS @0.5C 25°C

STATE OF CHARGE CURVE @0.5C 25°C

DIFFERENT TEMPERATURE SELF DISCHARGE CURVE

DIFFERENT DOD DISCHARGE CYCLE LIFE @1C
