



# FLYBAT

## LiFePO<sub>4</sub>

## LITHIUM IRON PHOSPHATE BATTERY



PRODUCT IMAGE



### Advantages of the FLYBAT lithium iron phosphate (LiFePO<sub>4</sub>) 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	60 mΩ
Nominal Capacity	24Ah	<b>Efficiency</b>	99%
Capacity @ 20A	72 min	Self Discharge	<3% per Month
Energy	307 Wh	Maximum Modules in Series/parallel	4/4

### MECHANICAL SPECIFICATIONS

Dimensions	Length	181 mm
	Width	77 mm
	Height	170 mm
Weight		2.55 kg
Terminal Type		M5
Terminal Torque		4 - 5 N-m
Case Material		ABS
Enclosure Protection		IP56
Chemistry		LiFePO <sub>4</sub>

### TEMPERATURE SPECIFICATIONS

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

### CHARGE SPECIFICATIONS

Recommended Charge Current	10 A
Maximum Charge Current	20 A
Recommended Charge Voltage	14.2 V - 14.6 V
<b>PCM Charge Voltage Cut-Off</b>	15.6 V
Reconnect Voltage	14.4 V
Balancing Voltage	14.4 V

### DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	24 A
Peak Discharge Current	48 A
<b>PCM Discharge Current Cut-Off</b>	70 A
Recommended Low Voltage Disconnect	11 V
<b>PCM Discharge Voltage Cut-Off</b>	8 V
Reconnect Voltage	10 V
Short Circuit Protection	Yes



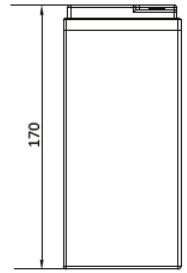
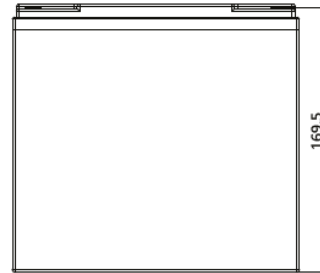
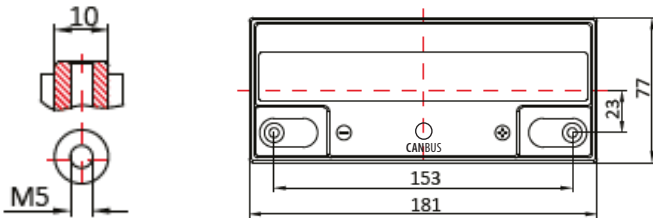
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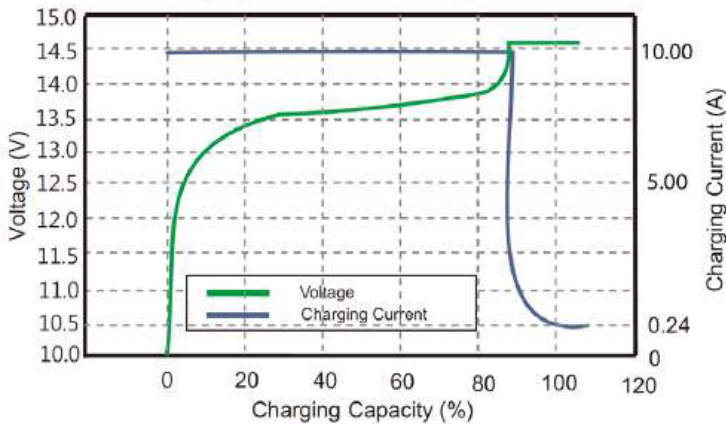
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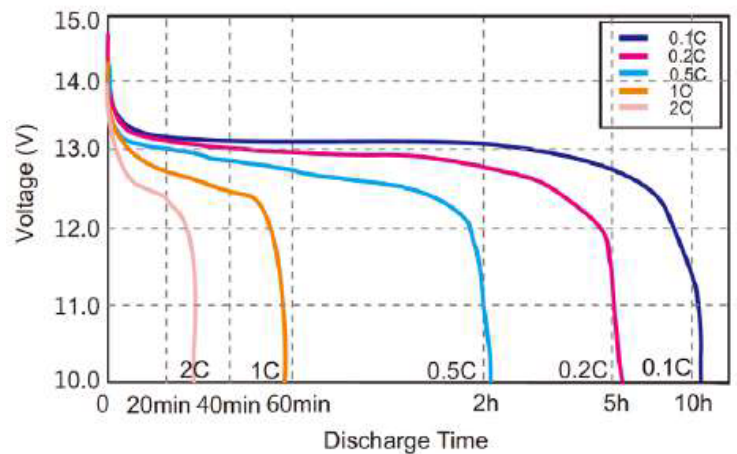
DIMENSIONAL SPECIFICATIONS



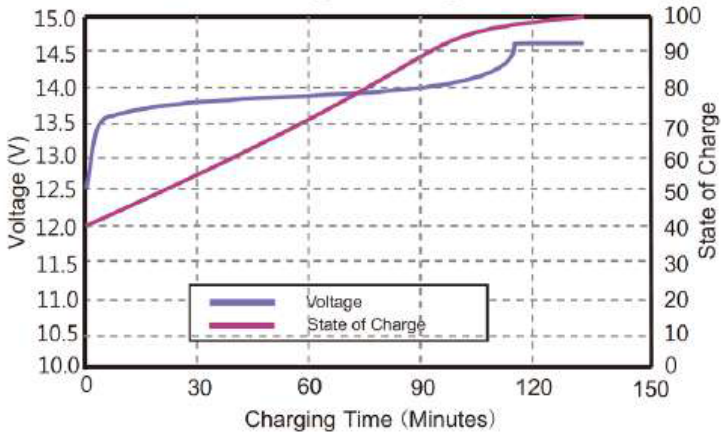
Charging Characteristics @0.5C 25°C



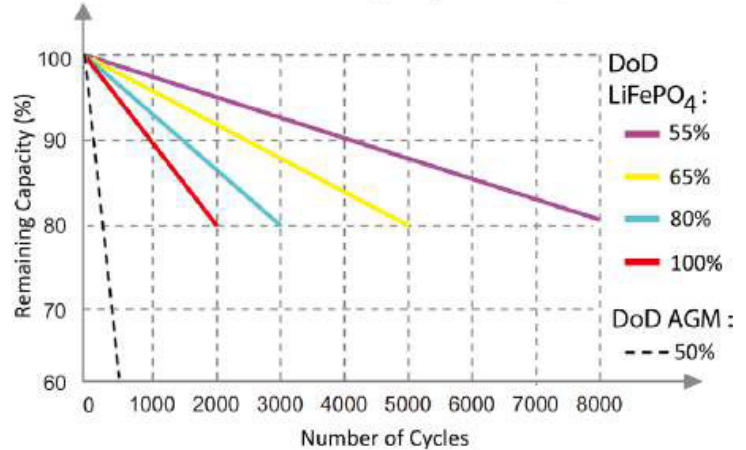
Different Rate Discharge Curve @25°C



State of Charge Curve @0.5C 25°C



Different DoD Discharge Cycle Life @1C



BVD GmbH  
Am Leitzelbach 29  
74889 Sinsheim

Telefon: 07261-94832-10  
E-Mail: [bvd@bvd24.de](mailto:bvd@bvd24.de)

**BVD**  
Batterie Vertrieb Deutschland

please visit [www.bvd24.de](http://www.bvd24.de)