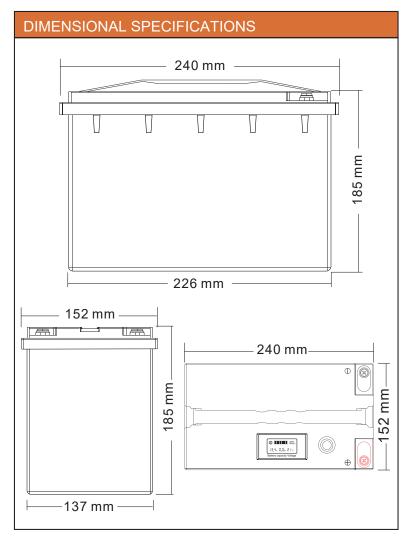


CREABEST

SKU: VB038 | VOLTAGE: 12.8 V | CAPACITY: 50 AH | ENERGY: 640 WH

ELECTRICAL SPECIFICATIONS	
Nominal Voltage	12.8 V
Nominal Capacity	50 Ah
Resistance	≤10 mΩ
Efficiency	99%
Self Discharge	<3% per Month
Cell Type - Chemistry	LiFePO4

CHARGING SPECIFICATIONS	
Standard Charge Current	≤ 25 A
Max Charge Current	50 A
Float Charge Voltage	13.8 ± 0.2 V
Recommended Charge Voltage	14.4 V - 14.6 V
BMS Charge Protection Voltage	14.6 V (Single cell voltage: 3.65V)
Charge Recovery Voltage	14.4 V
Balancing Current	30 mA



DISCHARGING SPECIFICATIONS		
Standard Discharge Current	25 A	
Max Continuous Discharge Current	50 A	
BMS Discharge Protection Current	100 A For 10 S	
Peak Discharge Current	150 A For 5 S	
BMS Discharge Protection Voltage	10.6 V ± 0.2 V	
Reconnect Voltage	11.2 V ± 0.04 V	
Short Circuit Protection	250 μs	

MECHANICAL SPECIFICATIONS	
Discharge Temperature	-20 °C - 60 °C
Charge Temperature	0 °C - 55 °C
BMS High Temperature Cut-Off	65 °C
BMS Reconnect Temperature	55 °C

MECHANISCHE SPEZIFIKATIONEN	
Dimensions (L x W x H)	240*152*185 mm
Net weight	5.9 kg
Terminal Type	M6
Shell Material	ABS
IP Rating	IP65

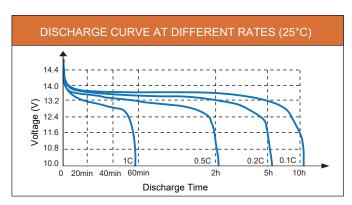
To ensure safe and efficient operation always refer to the latest edition of our datasheets, as published on our website www.creabest.se.

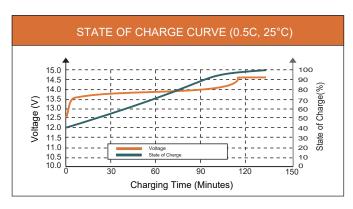
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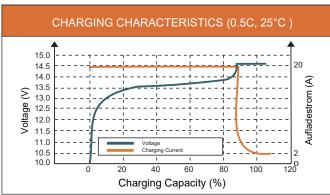


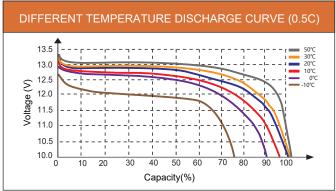
CREABEST

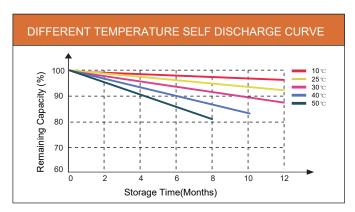
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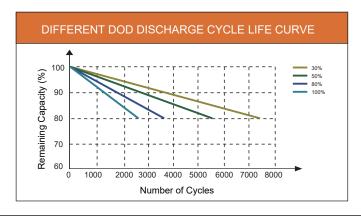












FEATURE LIFEPO₄ BATTERY



HIGH TEMPERATURE RESISTANCE The peak value of lithium iron phosphate electric heating

The peak value of lithium iron phosphate electric heating can reach 350 C-500 C, while lithium manganate and cobalt acidLithium is only around 200°C, with a wide operating temperature range (-20 C-75 C).



BMS CONTROL

The battery management system monitors and adapts to battery conditions to maximize performance and safety.



HIGH SECURITY

The P-O bond in the lithium iron phosphate crystal is stable and difficult to decompose. Even at high temperature or overcharge, it will not collapse and generate heat like lithium cobalt oxide or form strong oxidizing substances, so it has good safety.



ENVIRONMENTAL PROTECTION

Lithium iron phosphate batteries are generally considered to be free of any heavy metals and rare metals (the nickel -hydrogen battery requires rare metals), non-toxic (SGS certification), pollution-free and meets European RoHS regulations, and is an absolute green battery.



LONG CYCLE LIFE

At 80% depth of discharge, the number of cycles exceeds 3,000, and a 2-year warranty is provided.



LIGHT WEIGHT

The volume of a LiFePO4 battery with the same specification and capacity is the volume of a lead-acid battery, the weight is 1/3 of the lead-acid battery. Allowing for simple installation and transportation.