CREABEST

SKU: VB035 | VOLTAGE: 12.8 V | CAPACITY: 270 AH | ENERGY: 3456 WH

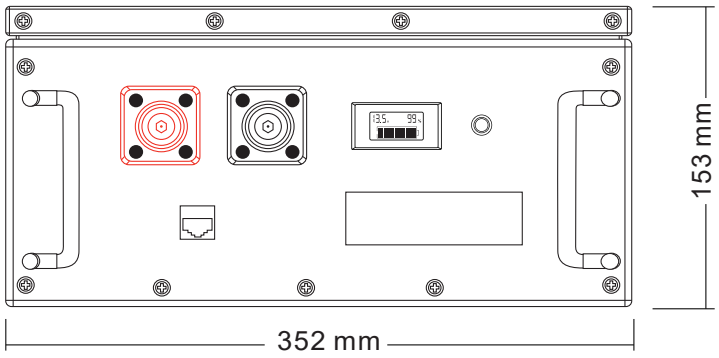
ELECTRICAL SPECIFICATIONS

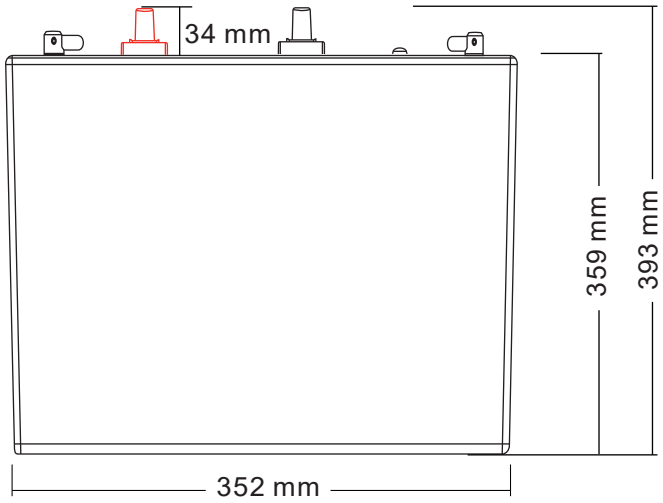
Nominal Voltage	12.8 V
Nominal Capacity	270 Ah
Resistance	≤10 mΩ
Efficiency	99%
Self Discharge	<3% per Month
Cell Type - Chemistry	$LiFePO_4$

CHARGING SPECIFICATIONS

Standard Charge Current	≤ 135 A
Max Charge Current	200 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)
Reconnect Voltage	14.4 V
Balancing Current	30 mA

DIMENSIONAL SPECIFICATIONS





DISCHARGING SPECIFICATIONS

Standard Discharge Current	135 A
Max Continuous Discharge Current	200 A
BMS Discharge Protection Current	300 A For 10 S
Peak Discharge Current	350 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

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-20 ºC - 60 ºC
Charge Temperature	0 ºC - 55 ºC
BMS High Temperature Cut-Off	65 ºC
BMS Reconnect Temperature	55 ºC

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	352*393*153 mm
Net weight	30.0 kg
Terminal Type	M8
Shell Material	Sheet metal
IP Rating	IP54

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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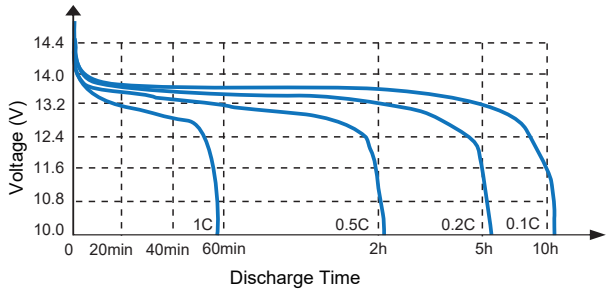
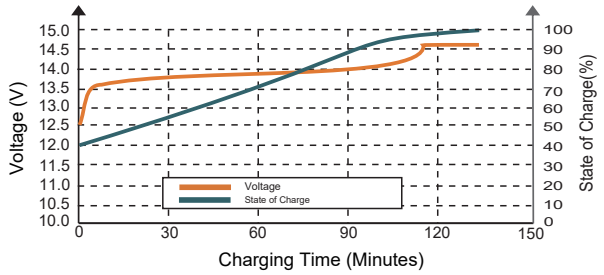
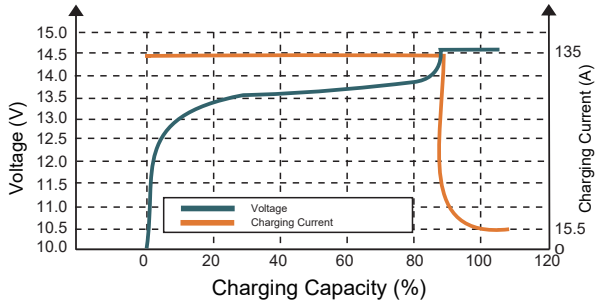
DISCHARGE CURVE AT DIFFERENT RATES (25°C)



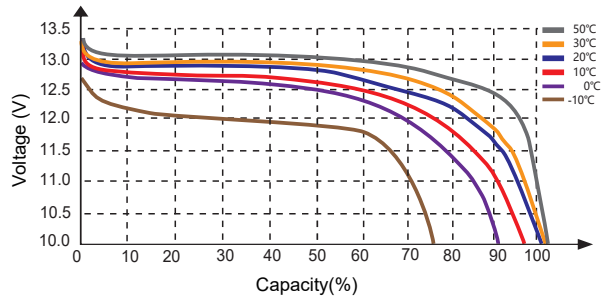
STATE OF CHARGE CURVE (0.5C, 25°C)



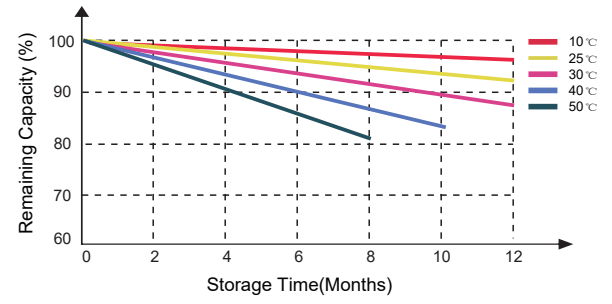
CHARGING CHARACTERISTICS (0.5C, 25°C)



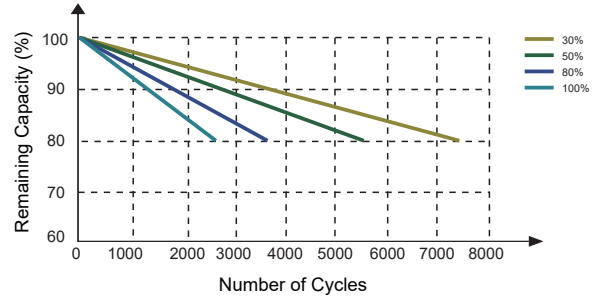
DIFFERENT TEMPERATURE DISCHARGE CURVE (0.5C)



DIFFERENT TEMPERATURE SELF DISCHARGE CURVE



DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE



FEATURE LIFEPO4 BATTERY

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

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.