JYEBG512100 LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL PERFORMANCE	
Nominal Voltage	51.2V
Nominal Capacity	100Ah
Capacity@0.5C	120min
Energy	5120Wh
Self Discharge	<3% / Month
Cells	Square aluminum shell
Configuration	1P16S

CHARGE PERFORMANCE	
Recommended Charge Current	20A
Maximum Charge Current	≤100A (5s)
Recommended Charge Voltage	57.6V
BMS Charge Cut-Off Voltage	<58.4V
Reconnect Voltage	>56.8V
Balancing Voltage	<56.0V

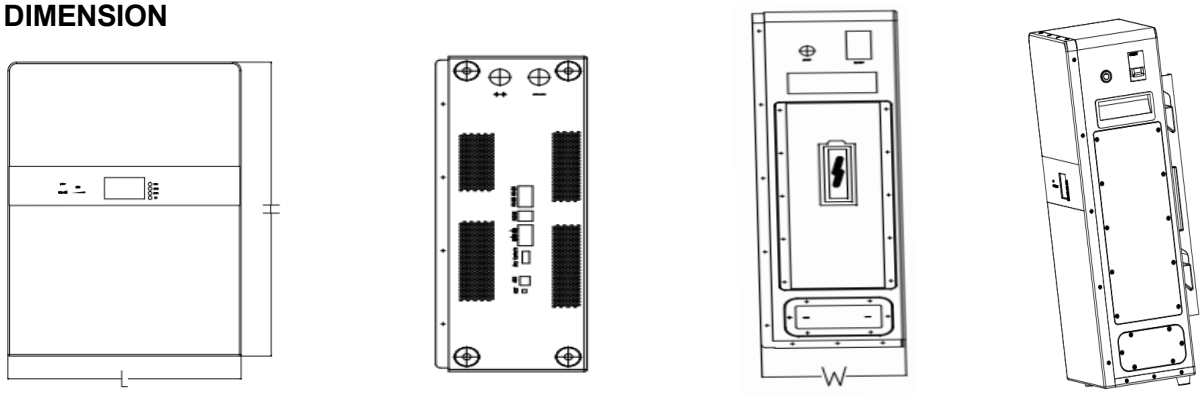
MECHANICAL PERFORMANCE	
Dimension (L x W x H)	425*165*540mm
Approx. Weight	45kg
Case Material	iron
Enclosure Protection	IP55

DISCHARGE PERFORMANCE	
Maximum Continuous Discharge Current	100A
Peak Discharge Current	≤120A(≤5S)
BMS Discharge Cut-Off Current	150A ±10A (50-150ms)
Recommended Low Voltage Disconnect	40V
BMS Discharge Cut-Off Voltage	>40V(2s)
Reconnect Voltage	>44V
Short Circuit Protection	450 ~ 800 μs

TEMPERATURE PERFORMANCE	
Discharge Temperature	-4 ~ 131 ºF (-20 ~ 55 ºC)
Charge Temperature	32 ~ 113 ºF (0 ~ 45 ºC)
Storage Temperature	23 ~ 95 ºF (-5 ~ 35 ºC)
BMS High Temperature Cut-Off	149 ºF (65 ºC)
Reconnect Temperature	131 ºF (55 ºC)

COMPLIANCE	
Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9

OUTLINE DIMENSION

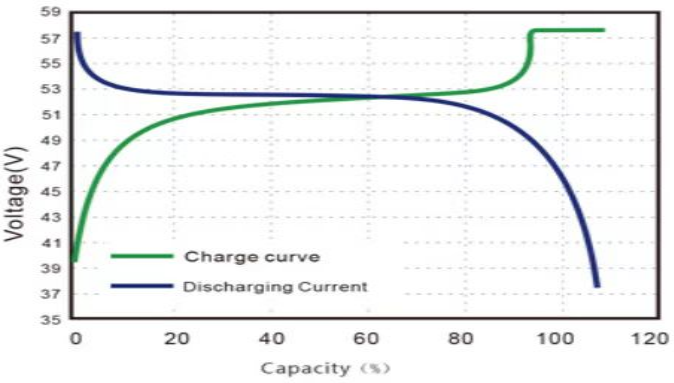


L (mm)	W (mm)	H (mm)	HT (mm)
425	165	540	560

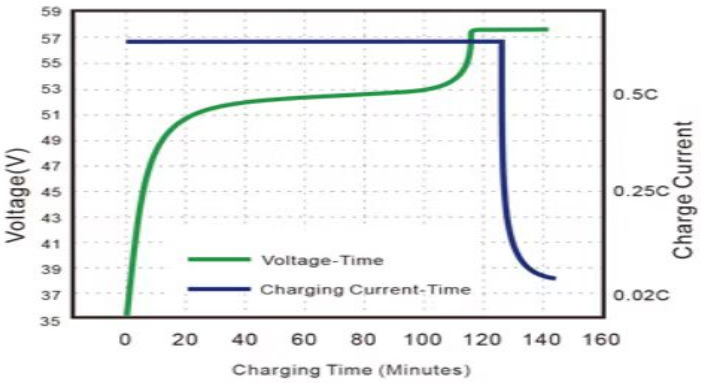
PERFORMANCE CHARACTERISTICS

Charging and Discharge curve

● Charge and discharge curve@0.5C 25℃

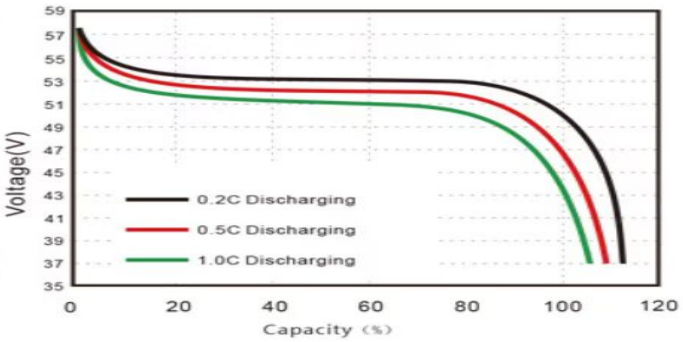


● Charging Characteristics @0.5C 25℃

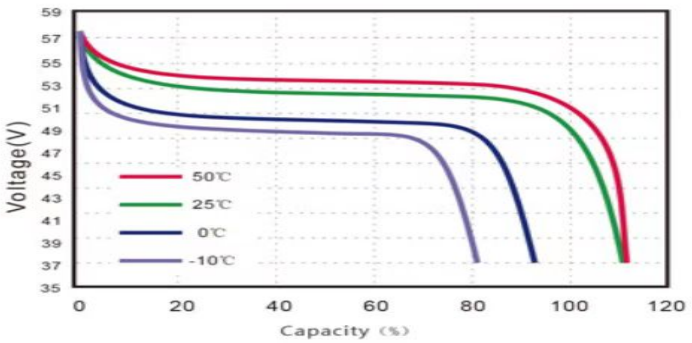


Different current/Temperature Discharge curves

● Different Rate Discharge Curve @25℃



● Different Temperature Discharge Curve @0.5C



FEATURES & BENEFITS

High cycle life
> 5 years or 6000 cycles, effectively reducing the total cost of ownership.

Longer service life
Low maintenance batteries with stable chemistry.

Built in circuit protection
Battery Management System (BMS) is incorporated against abuse.

Better storage
For up to 6 months, there is no risk of sulfate due to its extremely low self-discharge rate.

Quickly recharge
Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.

Extreme heat tolerance
Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.

Lightweight
Lithium iron phosphate energy storage batteries provide more power.

APPLICATIONS

Lithium iron phosphate energy storage battery, suitable for home, street lamp, commercial, industrial and other electrical products:

- Caravan
- Marine
- Home energy storage
- Outdoor energy storage
- Solar Storage
- Remote Monitoring
- Switching applications and more

CAUTIONS

- Do NOT short circuit, reverse polarity, crush or disassemble.
- Do NOT heat or incinerate.
- Do NOT immerse in any liquid.
- Store at 30~50% SOC. Recharging every 3 months is recommended. The storage area should be clean, cool, dry and ventilated.