

JYF36050 LiFePO₄ Battery

ELECTRICAL PERFORMANCE	
Nominal Voltage	38.4V
Nominal Capacity	50Ah
Capacity @ 7 0 A	40min
Energy	1920Wh
Resistance	≤20mΩ @ 50% SOC
Self Discharge	<3% / Month
Cells	Square aluminum shell

CHARGE PERFORMANCE	
Recommended Charge Current	10A
Maximum Charge Current	≤50A
Recommended Charge Voltage	43.2V
BMS Charge Cut-Off Voltage	<43.8V (3.65V/Cell)
Reconnect Voltage	>42.6V (3.55V/Cell)
Balancing Voltage	<42.3V (3.525V/Cell)
Maximum Batteries in Series	12

DISCHARGE PERFORMANCE	
Maximum Continuous Discharge Current	20A
Peak Discharge Current	≤50A(≤5S)
BMS Discharge Cut-Off Current	75A ±10A (50-150ms)
Recommended Low Voltage Disconnect	27.6V (2.3V/Cell)
BMS Discharge Cut-Off Voltage	>27.6V (2s) (2.3V/Cell)
Reconnect Voltage	>32.4V (2.7V/Cell)
Short Circuit Protection	450 ~ 800 μs

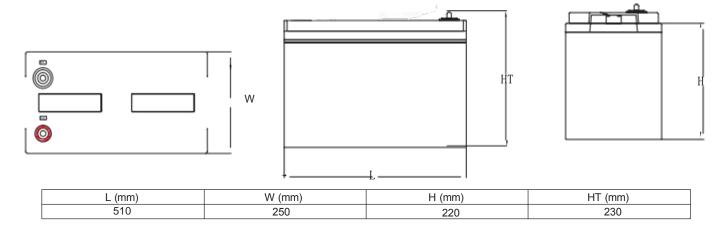


MECHANICAL PERFORMANCE		
Dimension L x W x Hx HT	5 1 0 x 2 5 0 x 220x 230mm	
Approx. Weight	(25kg)	
Case Material	ABS	
Enclosure Protection	IP65	

TEMPERATURE PERFORMANCE		
Discharge Temperature	-40~ 131 °F (-40 ~ 55 °C)	
Charge Temperature	-40~ 113 °F (-40~ 45 °C)	
Storage Temperature	23 ~ 95 °F (-5 ~ 35 °C)	
BMS High Temperature Cut-Off	149 °F (65 °C)	
Reconnect Temperature	131 °F (55 °C)	

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

OUTLINE DIMENSION



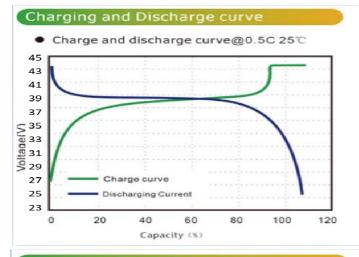
Performance may vary depending on application. All specifications are subject to change without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.

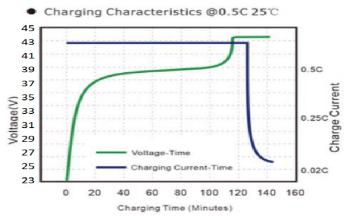


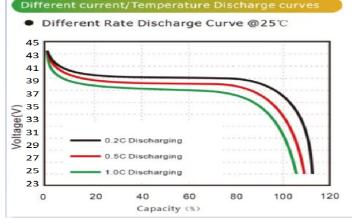


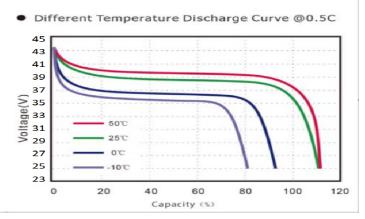


PERFORMANCE CHARACTERISTICS









FEATURES & BENEFITS



High cycle life

>2000 cycles for effectively lower 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

up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



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 batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.

APPLICATIONS

Lithium Iron Phosphate can be used in most applications that use Lead Acid, GEL or AGM type batteries.

Suitable applications include:

- Caravan
- Marine
- Golf Car
- Buggies
- Solar Storage
- Remote Monitoring
- Switching applications and more
- · Battery display function
- Bluetooth monitoring function

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.

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