



## Stackable Wall Mount LiFePO4 Battery 51.2V 2.5KWH

### BATTERY CELLS: JARVIN BRAND

#### ELECTRICAL SPECIFICATION

Nominal Voltage	48V(51.2V)
Nominal Capacity	50AH
Capacity @10A	5HR
Energy	2.5KWH
Resistance	≤20mΩ
Efficiency	99%
Self Discharge	< 3% per month
Max. Modules in Series	/
Max. Modules in Parallel	10 (25 kWh)

#### DISCHARGE SPECIFICATION

Recommended Cont. Discharge	20A-50A
Max. Cont. Discharge Current	50A
Peak Discharge Current	100A(3s)
BMS Discharge Current	200A±100A(10mS)
Recommend Cut-off voltage	38.4V
BMS Discharge Cut-off	36.8V
Short Circuit Protection	200-600 μs

#### CHARGE SPECIFICATION

Recommended Charge Current	20-50A
Max. Charge Current	50A
Peak Charge Current	50A
BMS Charge Voltage Cut-off	58.4V ( 1±0.2S )
Reconnect Voltage	56.8V-58.4V
Balancing Current	/
Balancing Voltage	/
Charge Current (-20 to -10 °C)	≤0.05 C



#### MECHANICAL SPECIFICATION

Dimensions ( L*W*H )	483*140*450mm
Weight	25KG±0.5KG
Terminal Type	Screw Stud
Case Material	Metal Case
Enclosure Protection	IP65
Cell Type: Prismatic/Pouch	16S1P
Total Cell	16 <b>PIECES</b>

#### TEMPERATURE SPECIFICATION

Discharge Temperature	-20°C to 60 °C
Charge Temperature	0 °C to 45 °C
Storage Temperature	-20°C to 40 °C
Peak High Temperature	80 °C
Reconnect Temperature	50 °C

#### OTHER CUSTOMISE SERVICE

SMARTFUCTION:RS485/RS232/CAN/BLUETOOTH  
 CHARGE/DISCHARGE CURRENT, BATTERY SIZE, OEM

#### FEATURE & BENIFITS

HIGH CYCLE LIFE: > 6000 times for effectively lower cost of ownership

BATTERY PACK BUILT-IN BMS Protection: Battery Management System are incorporated to protect battery from OVER CHARGING, OVER DISCHARGING, SHORT CIRCUIT

LIGHT WEIGHT: Dry power lithium batteries has higher energy density, wh/kg also being up to 1/3 of SLA battery

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WIDE OPERATING TEMPERATURE RANGE: Suitable for users in a wider range of application where ambient temperature is unusually high: up to +60°C

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STEADY OUTPUT VOLTAGE, VIBRATION & SHOCK RESISTANT, NO MEMORY EFFECT, PRESSURE RESISTANT CELLS

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### SUITABLE APPLICATIONS

Lithium Iron Phosphate can be used in any application that would normally use Lead Acid, GEL, or AGM type batteries.

LiFePO<sub>4</sub> in 4S=12.8V and 8S=25.6V is closed to Lead Acid equivalents of the Lithium rechargeable types

Suitable applications included caravan, marine, golf carts, solar storage, remote monitoring, switching applications

### CAUTIONS

Do NOT expose the battery to water

Do NOT expose the battery to fire & high temperature

Do NOT short circuit, crush or disassemble

Only use LiFePO<sub>4</sub> charger

Store at 50% capacity, recharge every 3 months. The storage area should be clean, cool, dry and ventilated.

