

USER MANUAL

256100 Lithium Battery

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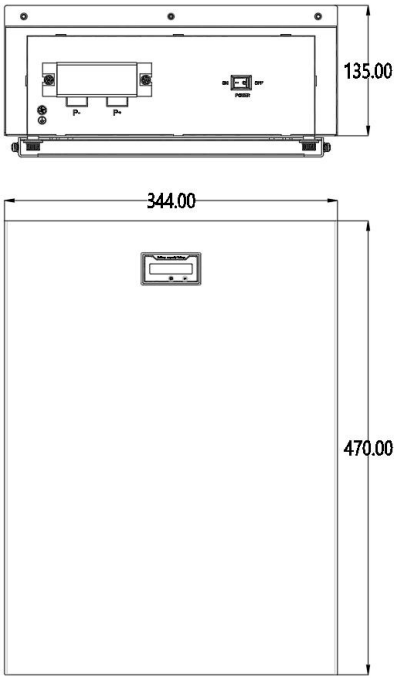
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1 Product Overview

256100 is a 25.6V 100Ah Lithium battery that can be rack mounted or wall mounted, **256100 is not suitable for life-sustaining medical devices.**

1.1 Appearance

1.1.1 Rack mounted 256100



1.2 Switch, LCD, LED & Communication Port

1.2.1 Switch ON/OFF

1、Switch ON

For single 256100 switch ON POWER button, then long press (3 sec) SW button.

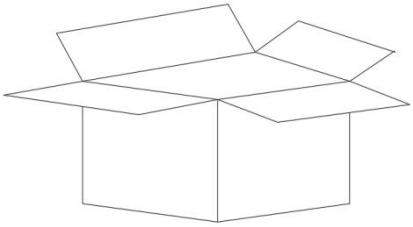
For multiple 256100 connected in parallel, switch ON POWER buttons of all batteries, then long press (3 sec) SW button of master battery.

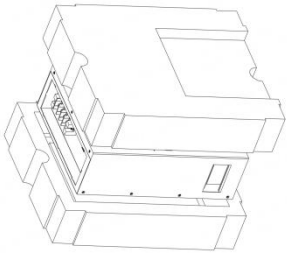
2、Switch OFF

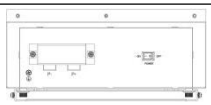
Switch OFF POWER button(s) of all batteries.

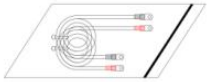
2 Installation Guide

2.1 Checking Deliverables

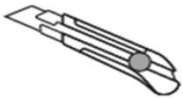
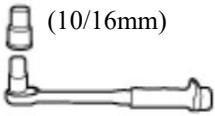
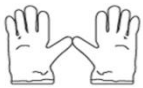




NO.	Pictures	Quantity	Description
1		1 pcs	Battery
2		4 pcs	Battery hanging bolt
3		4 pcs	Battery hanger
4		1 pcs	Bracket
5		4 pcs	Expansion Bolt

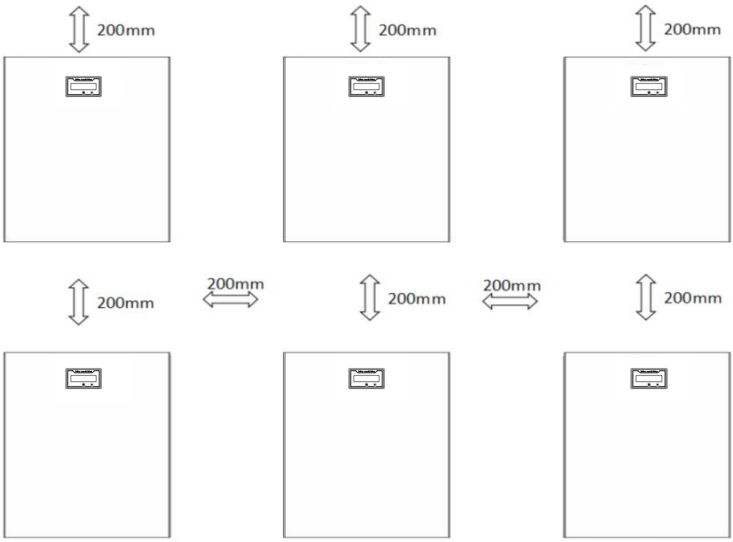
6		2 pcs	Bottom Wall Bracket
7		1 pair	Cover bolt

2.2 Tools

Tools			
Installation	Knife 	Measuring tape 	Socket wrench (10/16mm) 
	Hammer 	Cross Screwdriver 	Hammer drill 
Protection	ESD gloves 	Safety goggles 	Safety Shoes 

2.3 Installation Instructions

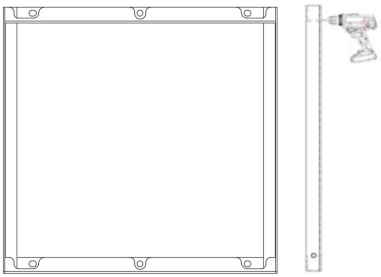
Minimum mounting distance requirement: (Wall Mounted)



2.3.1 Installation Step

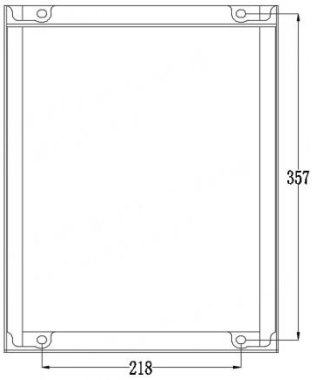
Step 1

Drill holes in the wall according to cardboard.



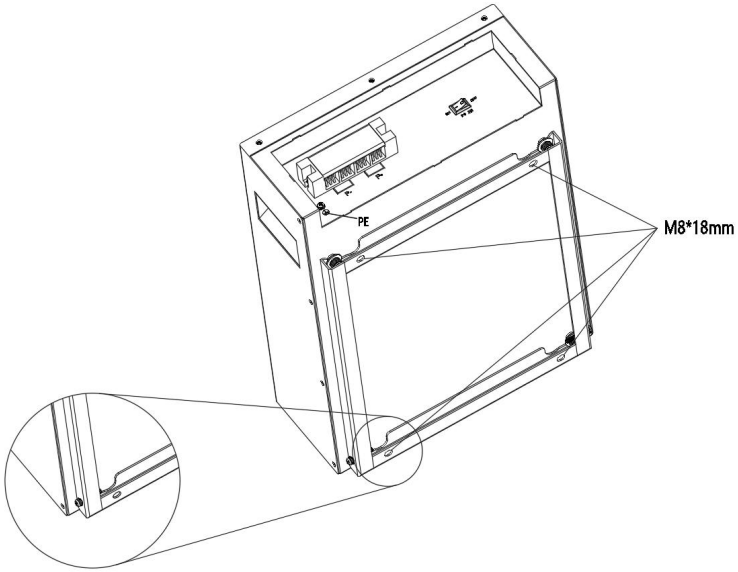
Step 2

Fix top & bottom wall brackets to the wall.



Step 3

Install the hanging bracket.



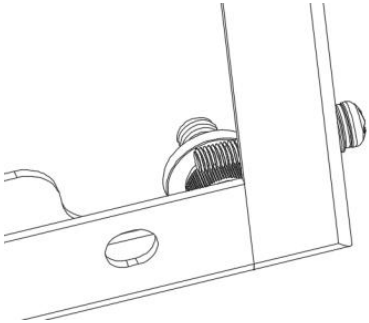
Step 4

Hang 256100 battery on wall brackets.



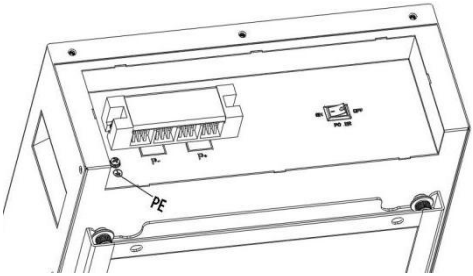
Step 5

Install 2 pcs bottom bracket bolt.



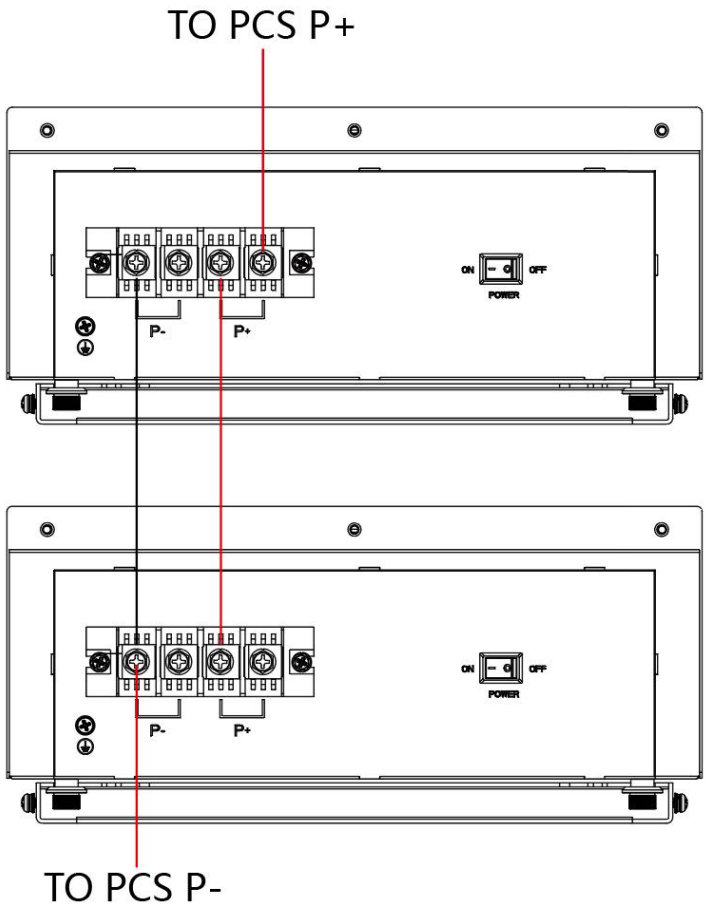
Step 6

Connect PE cable & power cable.



Step 7

Refer to the following diagram when multiple batteries are connected in parallel:



3 Technical Specifications

Basic Project		Parameter
Nominal Voltage		25.6V
Nominal Capacity		100Ah
Nominal Energy		2560Wh
Charge Voltage		28.08V
Charge Current		50A
Discharge Voltage Range		22.8V～28.08V
Discharge Current		100A（Recommend ≤50A）
Communication Mode		CAN/RS485
Working Temperature	Charge	0℃～45℃
	Discharge	-20℃～60℃
Storage Temperature	Short Term (within 1 month)	-10℃～45℃
	Long Term (within 1 year)	0℃～35℃
Storage Humidity		＜95% RH
Cell Type		$LiFePO_4$，Lithium Iron Phosphate
Size		H470*W344*D135(mm)
Weight		26.5KG (Wall Bracket Included)
IP Level		IP20

4 Maintenance

4.1 Recharge Requirements During Storage

Batteries should be stored in temperature between -10℃～ +45℃, and recharged regularly according to the following table with 0.2C (20A) current to 50% SOC after long time storage.

Recharge requirement during storage

Storage Temperature	Storage Relative Humidity	Storage Time	SOC
Below -10℃	/	Not Allowed	/
-10~0℃	5%~70%	≤1 months	30%≤SOC≤60%
0~25℃	5%~70%	≤12 months	30%≤SOC≤60%
25~35℃	5%~70%	≤6 months	30%≤SOC≤60%
35~45℃	5%~70%	≤1 months	30%≤SOC≤60%
Above 45℃	/	Not Allowed	/

4.2 Recharge Requirements When Over Discharged

Please recharge over discharged (90% DOD) batteries according to the following table, otherwise over discharged battery will be damaged.

Recharge requirement when battery is over discharged

Storage Temperature	Storage Time	Note
-10~25℃	≤15 days	Battery disconnected from PCS
25~45℃	≤7 days	
-10~45℃	< 12 hours	Battery connected to PCS

Attention：Disposal of batteries should follow local regulations.