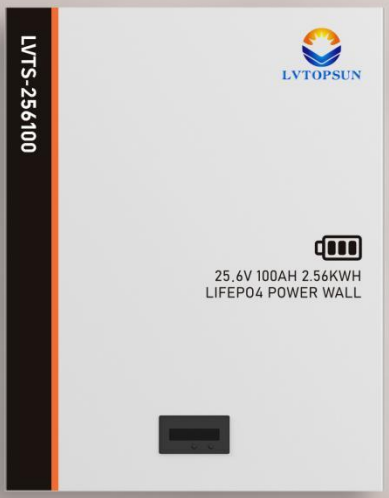
USER MANUAL

LVTS-256100 Lithium Battery





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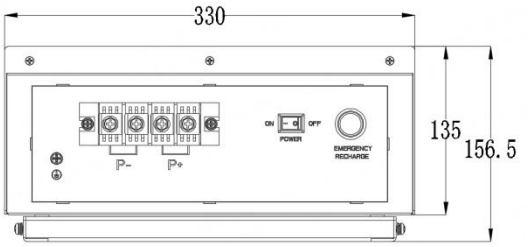
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1 Product Overview

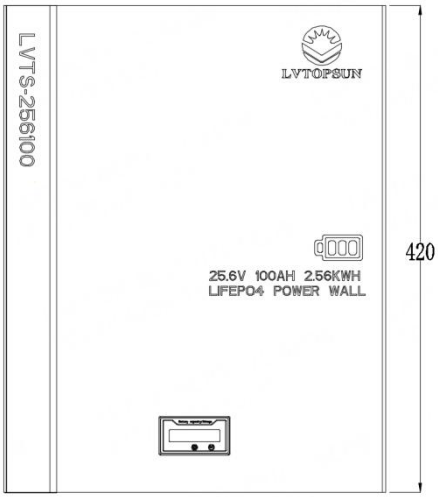
LVTS-256100 is a 25.6V 100Ah Lithium battery that can be rack mounted or wall mounted, **LVTS-256100 is not suitable for life-sustaining medical devices.**

1.1 Appearance

1.1.1 Rack mounted LVTS-256100

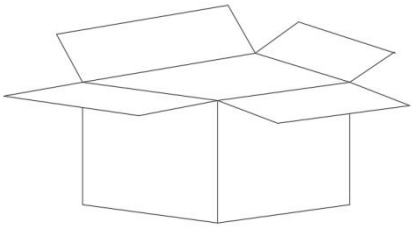


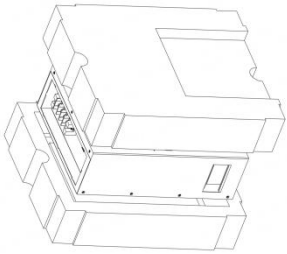
1.1.2 Wall mounted LVTS-256100

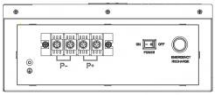


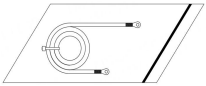
2 Installation Guide

2.1 Checking Deliverables

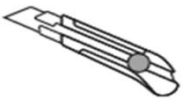
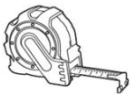
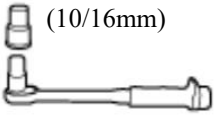
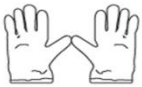




NO.	Pictures	Quantity	Description
1		1 pc	Battery
2		4 pcs	Battery hanging bolt
3		4 pcs	Battery hanger
4		1 pc	Bracket
5		4 pcs	Expansion Bolt

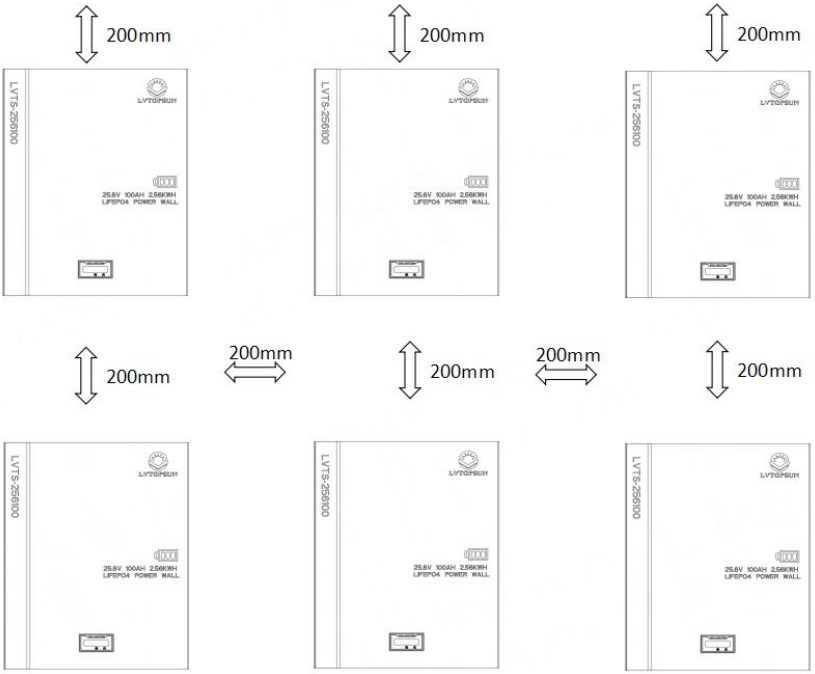
6		2 pcs	Bottom Wall Bracket Bolt
7		1 pc	
8		1 pc	Instruction book

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

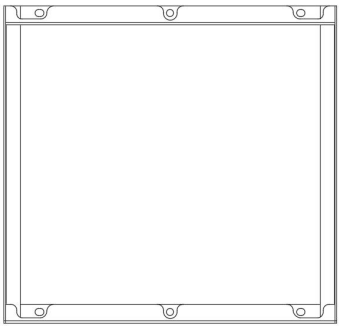
Minimum mounting distance requirement: (Wall Mounted)



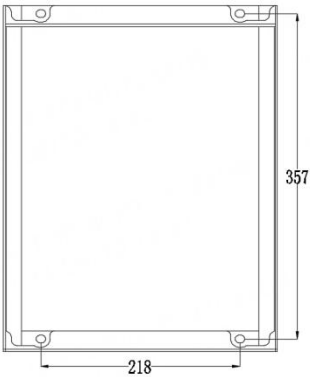
2.3.1 Installation Step

Step 1

Drill holes in the wall according to cardboard.





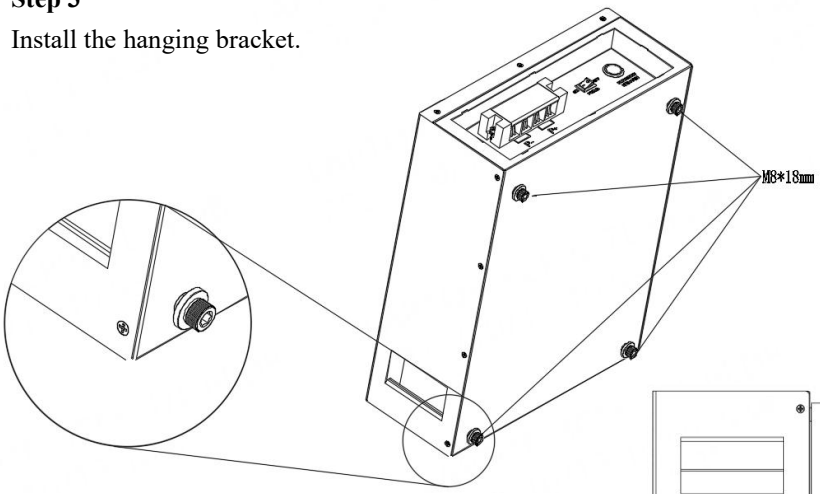


Step 2

Fix top & bottom wall brackets to the wall.

Step 3

Install the hanging bracket.



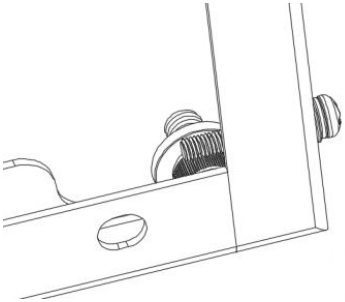
Step 4

Hang LVTS-256100 battery on wall brackets.



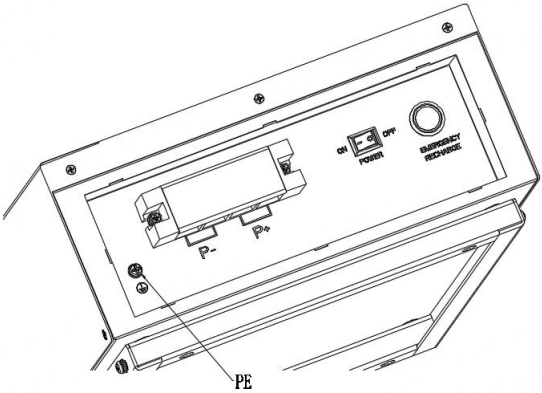
Step 5

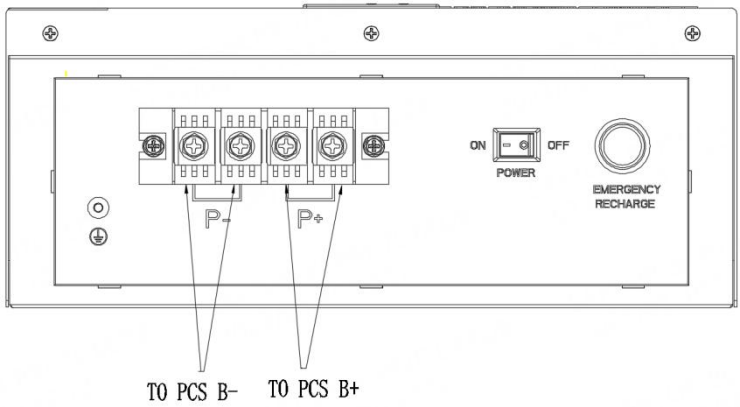
Install 2 pcs bottom bracket bolt.



Step 6

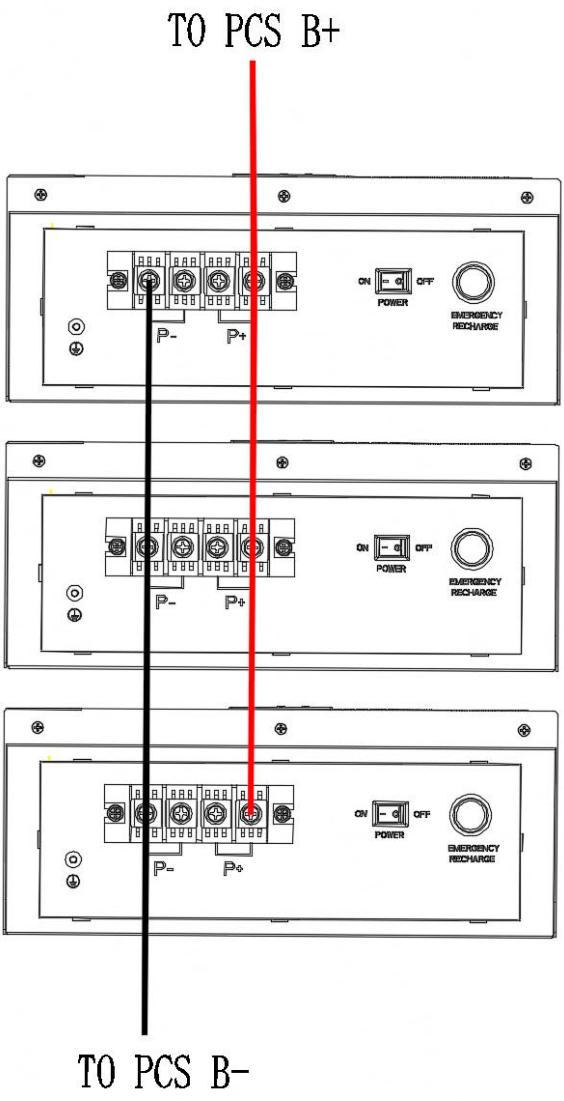
Connect PE cable & power cable.





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
Communication Mode		/
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		H420*W330*D135(mm)
Weight		25.8KG (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.