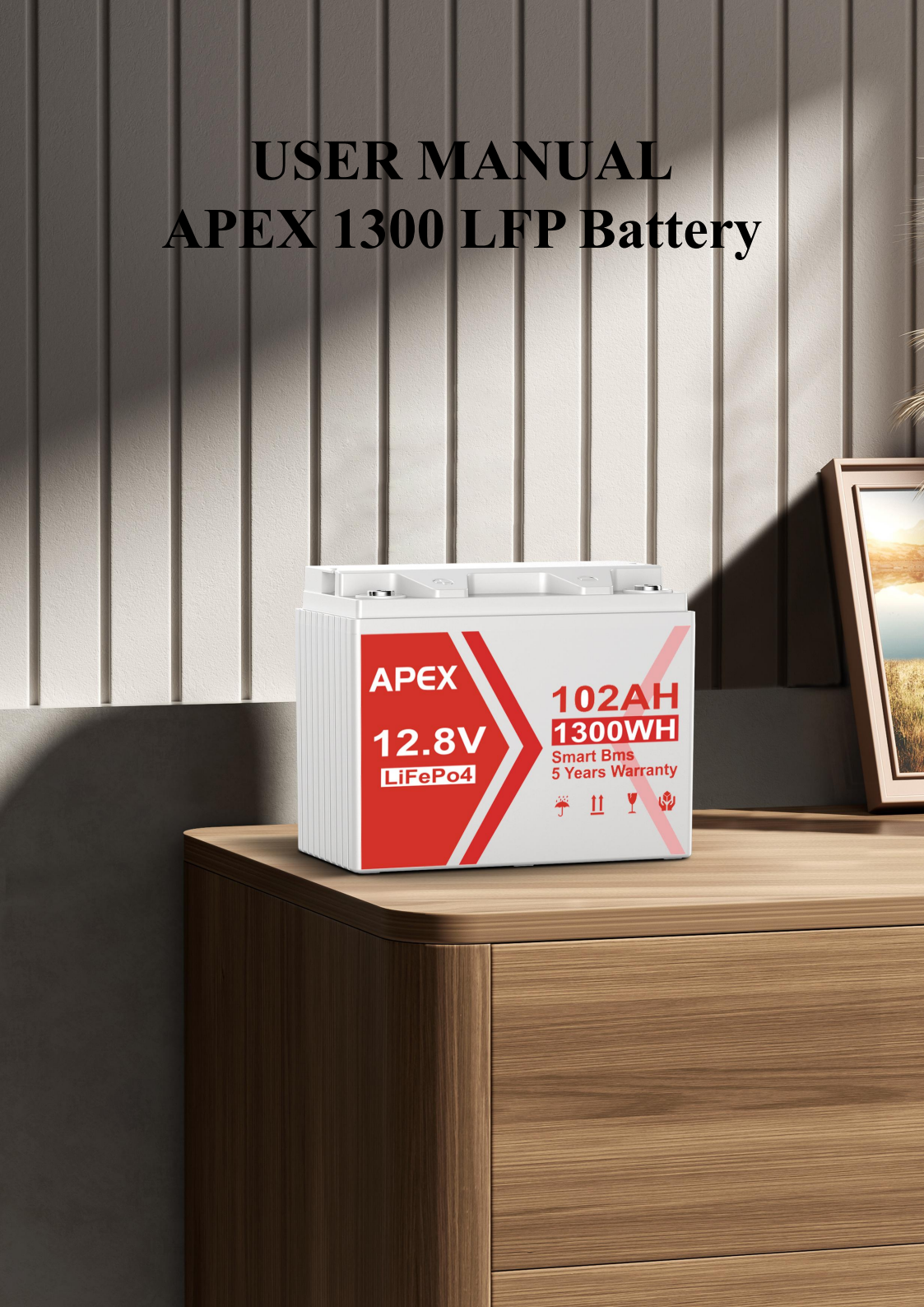
USER MANUAL
APEX 1300 LFP Battery



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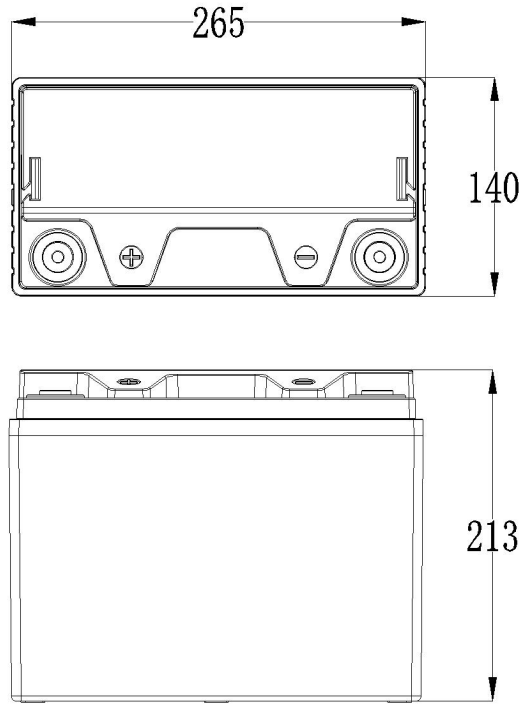
1 Product Overview

APEX 1300can be floor mounted,.

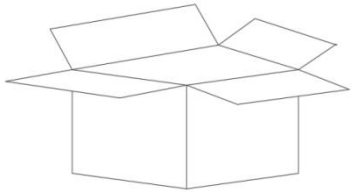
APEX 1300is not suitable for life-sustaining medical devices.

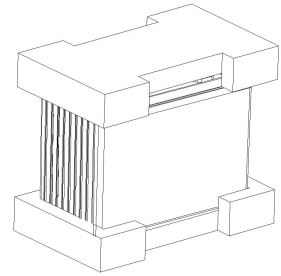
1.1 Appearance

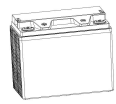
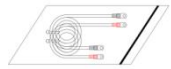
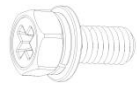


2 Installation Guide

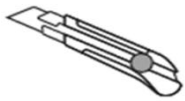
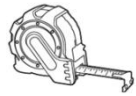
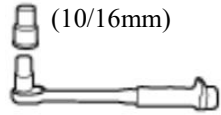
2.1 Checking Deliverables





NO.	Pictures	Quantity	Description
1		1 pc	Battery
2		1 pc	User Manual
3		1 pair	Power cable
4		2 pcs	Wall Mount set screws

2.2 Tools

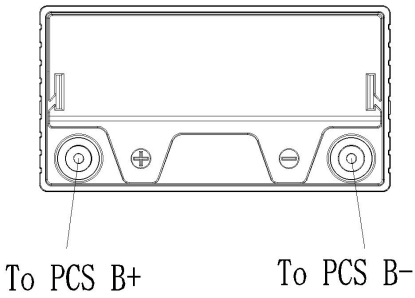
Installation Tools	Knife 	Measuring Tape 	Socket Wrench (10/16mm) 
	Hammer 	Cross Screwdriver 	Hammer Drill 
Protection Tools	ESD Gloves 	Safety Goggles 	Safety Shoes 

2.2.1 Installation Step (Floor Mounted)

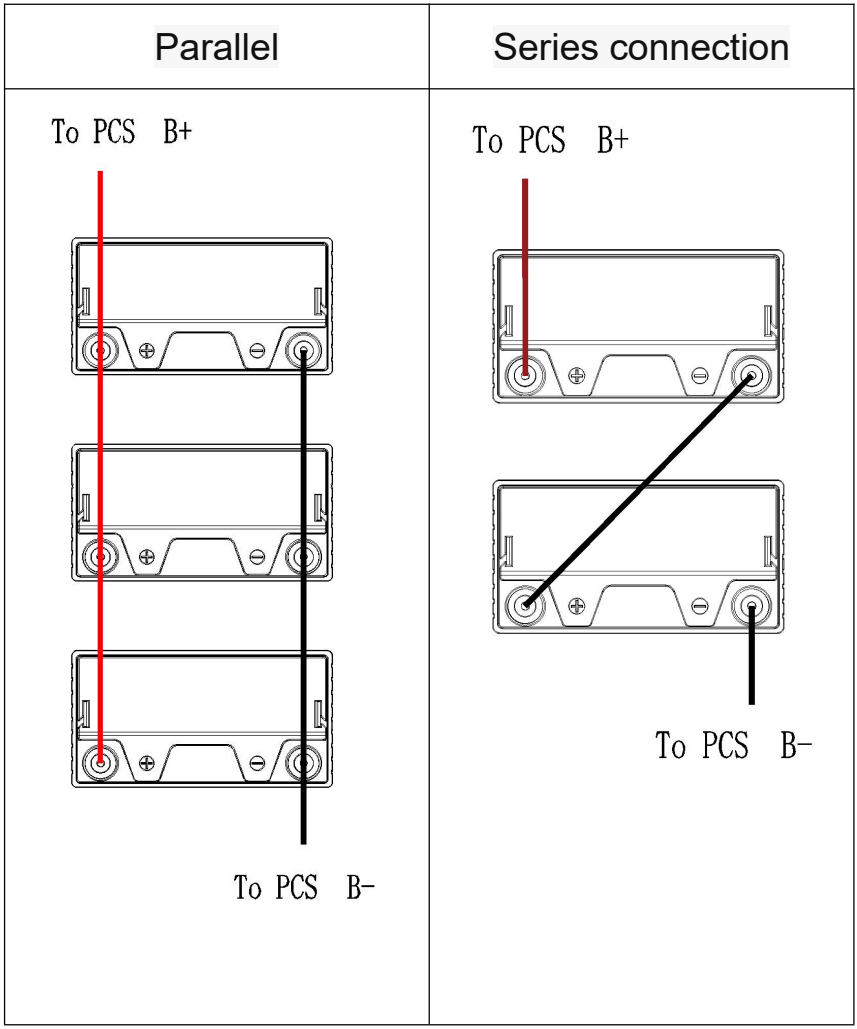
Step 1

put APEX 1300on floor.

Step 2 Connect power cable.



Step 3 Refer to the following diagram when multiple batteries are connected in parallel:



3 Technical Specifications

Basic Project		**Parameter**
Nominal Voltage		12.8V
Nominal Capacity		102Ah
Nominal Energy		1305Wh
Charge Voltage		56.16V
Charge Current		50A
Discharge Voltage Range		10.8V～14.6V
Discharge Current		100A
Communication Mode		/
Working Temperature	Charge	0℃～55℃
	Discharge	-20℃～55℃
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		H265*W140*D213(mm)
Weight		10KG
IP Level		IP65

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	/
-10~25℃	5%~70%	≤12 months	30%≤SOC≤60%
25~35℃	5%~70%	≤6 months	30%≤SOC≤60%
35~45℃	5%~70%	≤3 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