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USER MANUAL
APEX 5220 LFP Battery

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5220 LFP Lithium Battery

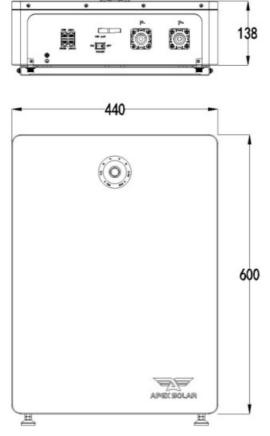


Product Overview

APEX 5220 can be floor mounted, or wall mounted.

APEX 5220 is not suitable for life-sustaining medical devices.

1.1 Appearance



1.2 Button, LED & Communication Port

1.2.1 Switch ON/OFF

1. Switch ON

For single APEX 5220, switch ON POWER button, then long press (3 sec) SW button (surrounded by led lights).

For multiple APEX 5220 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 all POWER button(s).

1.2.2LED Indicator Definition

Note: Flash 1 - 0.25s ON / 3.75s OFF

Flash 2 - 0.5s ON / 0.5s OFF

Flash 3 - 0.5s ON / 1.5s OFF

SOC Status while charging

STATUS	CHARGE						
	L8	L7	L6	L5	L4	L3	L2

34 50 SOC (%) 51 66	0 17	ON	OFF	OFF	OFF	OFF	OFF	OFF	Flash 2
	18 33			OFF	OFF	OFF	OFF	Flash 2	ON
	34 50			OFF	OFF	OFF	Flash 2	ON	ON
	51 66			OFF	OFF	Flash 2	ON	ON	ON
	67 83			OFF	Flash 2	ON	ON	ON	ON
	84 100			Flash 2	ON	ON	ON	ON	ON

SOC Status while discharging

STATUS		DISCHARGE								
31	SIAIUS		L7	L6	L5	L4	L3	L2	L1.	
	0 17	18 33 34 50 51 66 67 83 Flash 3 OFF		OFF	OFF	OFF	OFF	OFF	ON	
	18 33		OFF	OFF	OFF	OFF	OFF	ON	ON	
SOC	34 50			OFF	OFF	OFF	ON	ON	ON	
(%)	51 66		Ori	OFF	OFF	ON	ON	ON	ON	
	67 83			OFF	ON	ON	ON	ON	ON	
	84 100			ON	ON	ON	ON	ON	ON	

Work Status

STATUS		RUN	AL M				DESCRIP			
		L8	L7	L6	L5	L4	L3	L2	L1	TION
Shutdov	utdown OFF OFF OFF OFF OFF OFF				OFF					
Standby	,	Flash	OFF	Acco	ding to	SOC				
	Normal	ON	OFF	Acco	According to SOC					
Charg e	Over v	ON	OFF	ON	ON	ON	ON	ON	ON	Switch to standby m ode
	Protect	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	Stop charging
	Normal	Flash	OFF	Acco	According to SOC					
Discha	Under volt	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Stop disch arging
	Protect	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	Stop disch arging
Faulty	,	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	Stop charging a nd dischar ging

1.2.3Communication Port Pin Definition

1.2.3.1 CAN/RS485 to PCS

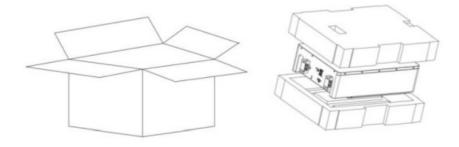
Port definitions	RJ45 Pin	Function
	1	RS485-B
	2	RS485-A
1 2 3 4 5 6 7 8	3	GND
	4	CAN-H
	5	CAN-L
	6	NC
	7	RS485-A
	8	RS485-B

1.2.3.2 RS232 to PC

Port definitions	RJ45 Pin	Function
	1	RS232-TX
	2	GND
1 2 3 4 5 6 7 8	3	RS232-RX
1 2 3 4 5 6 7 8	4	NC
	5	NC
	6	NC
	7	NC
	8	NC

Installation Guide

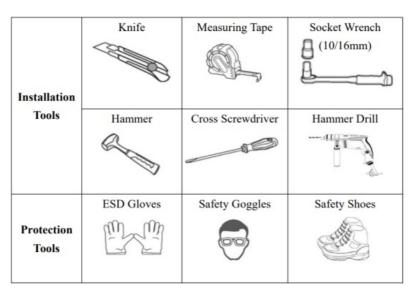
2.1 Checking Deliverables



NO.	Pictures	Quantity	Description
1		1 pc	Battery
2		4 pcs	Battery hanging bolt
3		4 pcs	Battery hanger
4		1 pc	Wall Mount
5	Offine and the second	2 pcs	Wall Mount Bottom Bolt
6		4 pcs	Expansion Bolt
7		1 pc	User Manual
8	0	1 pc	cover
9		1 pair	Power cable
10		1 pc	Comm cable

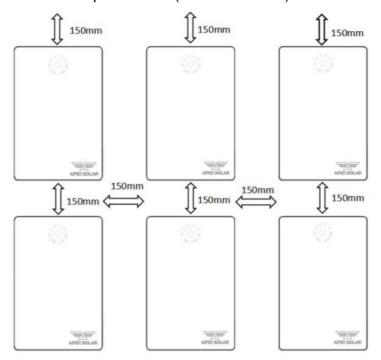


2.2 Tools



2.3 Installation Instructions

Minimum mounting distance requirement: (Wall Mounted)



2.3.1Installation Step (Floor Mounted)

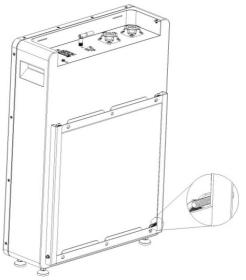
Step 1

put APEX 5220 on floor then start from Step 6

2.3.2Installation Step (Wall Mounted)

Step 1

Remove 2 pcs wall mount bottom bolts, remove wall mount from battery.

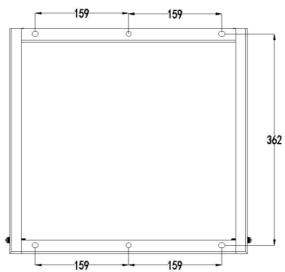


Step 2

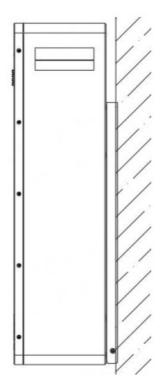
Drill holes in the wall according to wall mount.



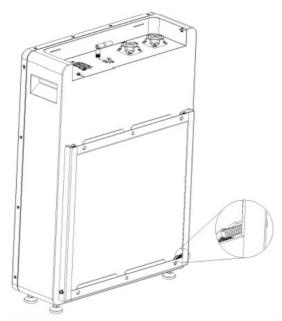
Step 3Fix wall mount to the wall using expansion bolt.



Step 4Hang APEX 5220 battery on wall mount.



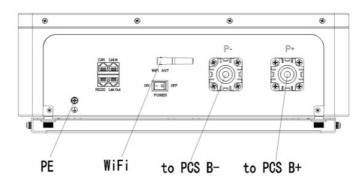
Step 5
Install 2 pcs wall mount bottom bolts.



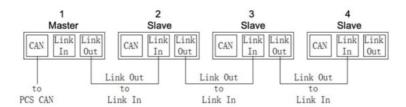
Step 6 remove levelling feet.



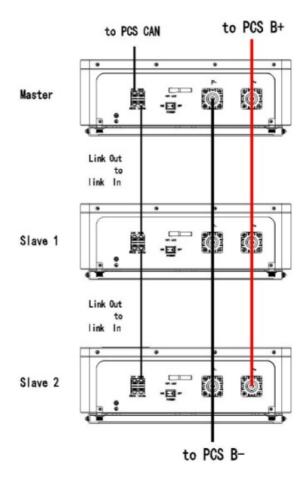
Step 7 Connect PE cable & power cable.



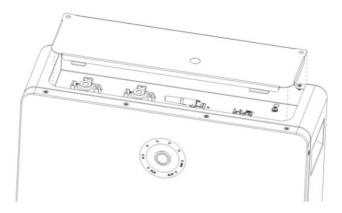
Step 8 Connect communication cable.



Step 9 Refer to the following diagram when multiple batteries are connected in parallel:



Step 10 Install cover using cover bolts.



Bluetooth and Wi-Fi Function

3.1 Bluetooth

1. Turn on Bluetooth function on your phone, open "APEX SOLAR" APP, tap "BLE"



2. Tap "Add Device"



You have not yet connected a device



3. Select your APEX SOLAR device and connect

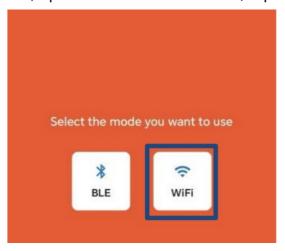


4. Check APEX SOLAR battery info on your phone



3.2 Wi-Fi

1. Connect your phone to Wi-Fi, open "APEX SOLAR" APP, tap "WiFi"



2. Tap "Sign Up"



3. Create your account and login



4. Tap "Add Device"





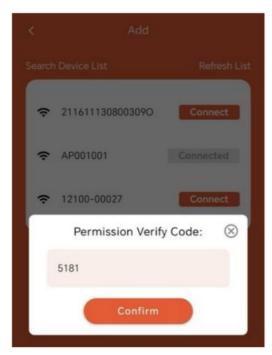
You have not yet connected a device



5. select your APEX SOLAR device and connect



6. Permission code 5181



7. Confirm your WiFi Name and enter your WiFi password



8. Check APEX SOLAR battery info on your phone



Maintenance

4.1 Recharge Requirements During Storage

Batteries should be stored in temperature between -10 °C +45 °C, 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 Temperat ure	Storage Relative Humidity	Storage Time	SOC
Below -10°C	/	Not Allowed	/
-10~25°C	5%~70%	≤12 months	30%≤SOC≤60%
25~35°C	5%~70%	≤6 months	30%≤SOC≤60%
35~45°C	5%~70%	≤3 months	30%≤SOC≤60%
Above 45°C	/	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°C	≤15 days	Battery disconnected from PCS	
25~45°C	≤7 days	Battery disconnected from 1 00	
-10~45°C	< 12 hours	Battery connected to PCS	



Documents / Resources



APEX SOLAR 5220 LFP Lithium Battery [pdf] User Manual 5220, 5220 LFP Lithium Battery, LFP Lithium Battery, Lithium Battery

References

User Manual

■ APEX

5220, 5220 LFP Lithium Battery, APEX SOLAR, LFP Lithium Battery, Lithium

SOLAR Battery

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