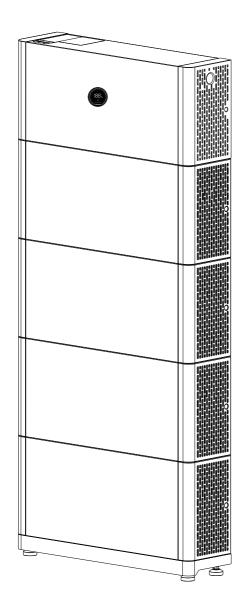
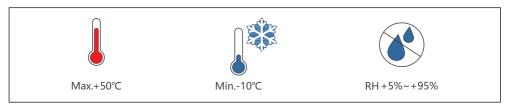


Quick Installation Manual APX 5.0~30.0P-S1

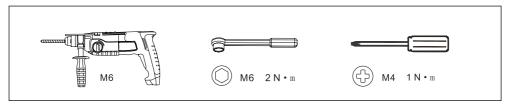


Shenzhen Growatt New Energy Co.,Ltd.

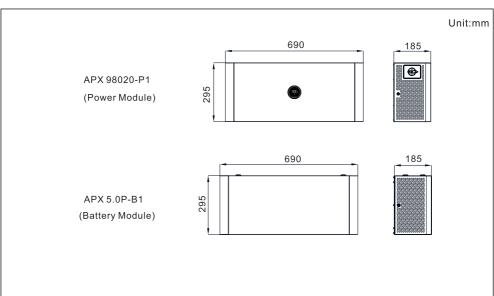
Environment requirements

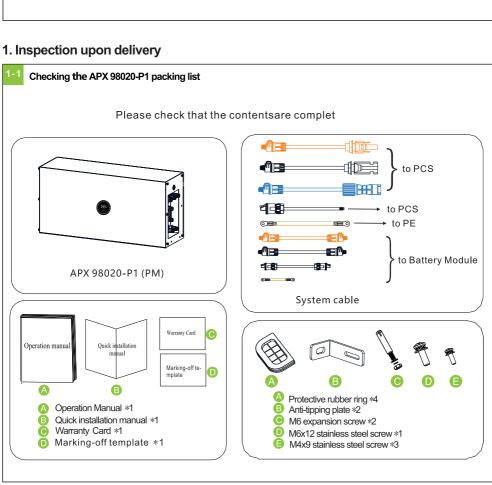


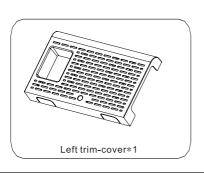
Installation tools

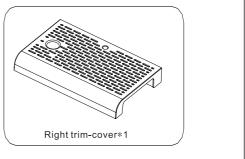


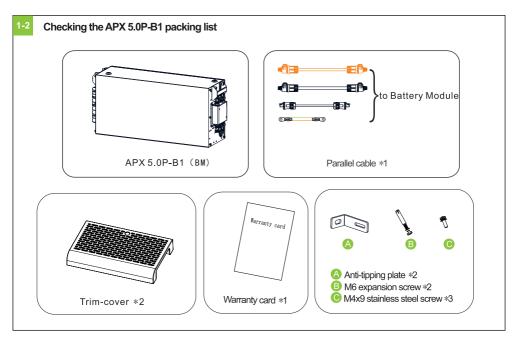
Dimensions

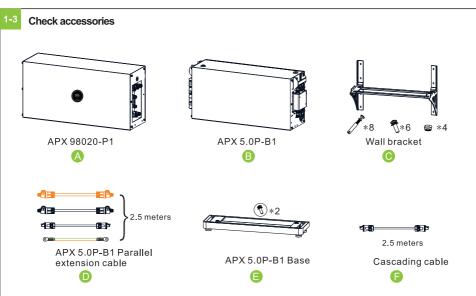






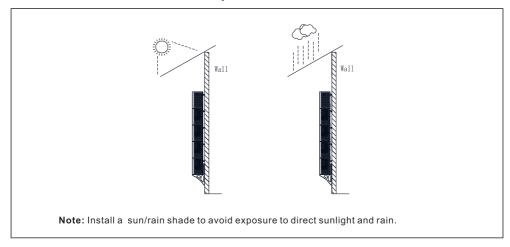




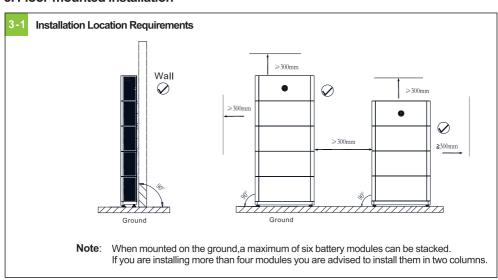


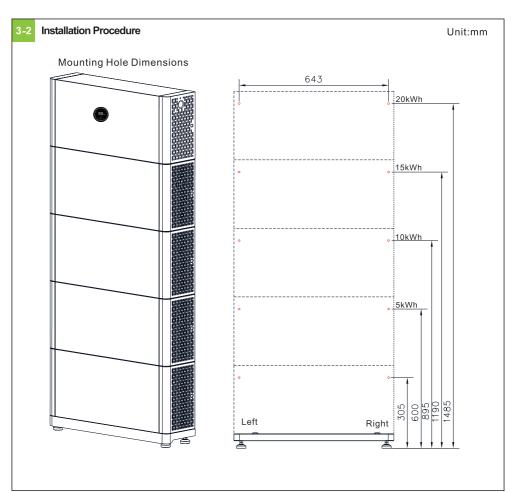
Battery Capacity	Floor-mounted Installation Compound Mode	Wall-Mounted Installation Compound Mode
5kWh	A+B+E	A+B+C
10kWh	A+B*2+E	A+B*2+C
15kWh	A+B*3+E	A+B*3+C
20kWh	A+B*4+E	A+B*4+C
25kWh	A+B*5+E*2+D	A+B*5+C*2+D
30kWh	A+B*6+E*2+D	A+B*6+C*2+D

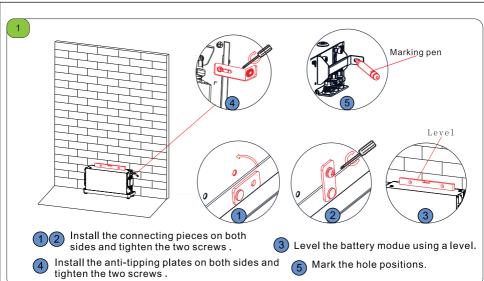
2.Installation Environment Requirement

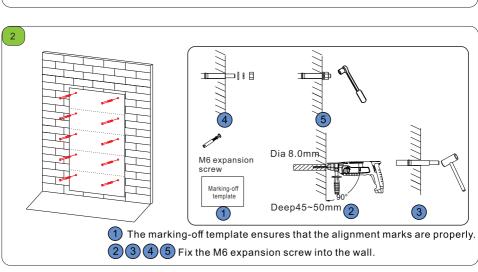


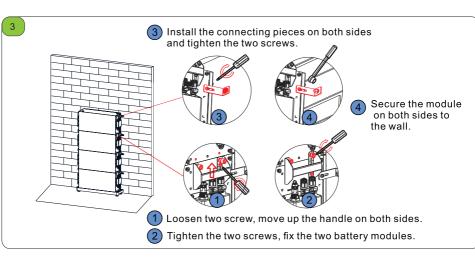
3. Floor-mounted installation

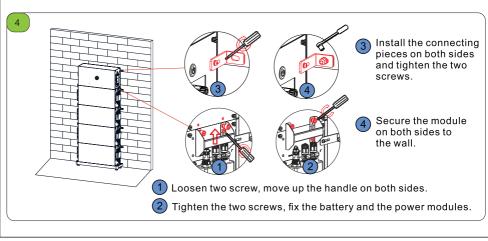




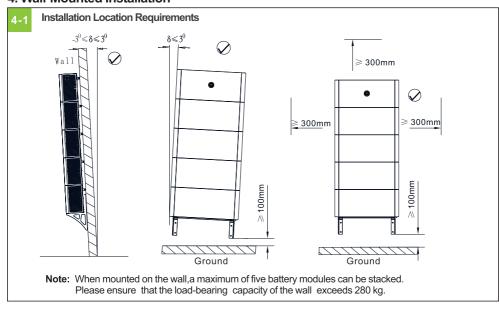


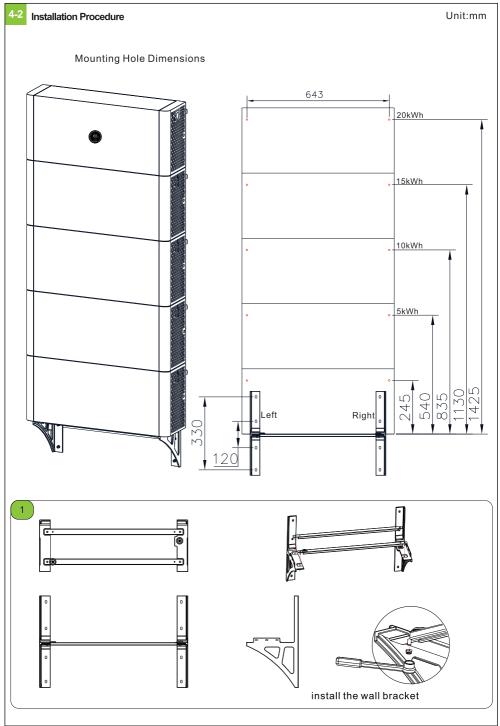


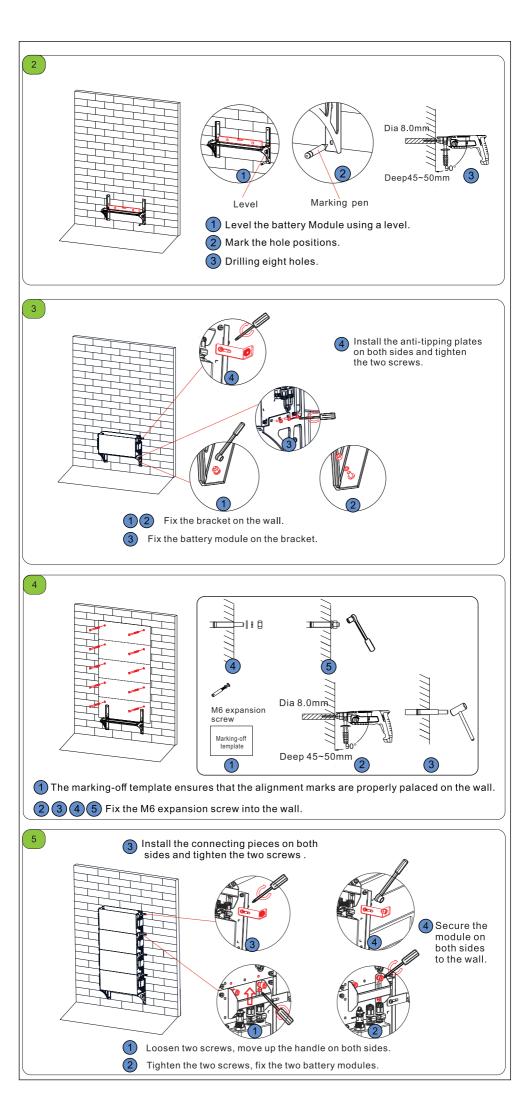


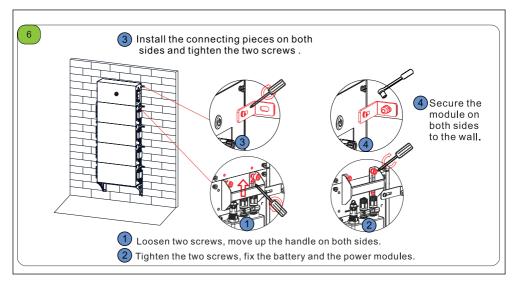


4. Wall-Mounted Installation



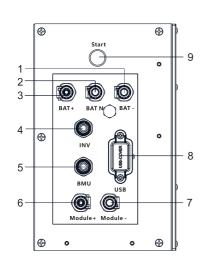






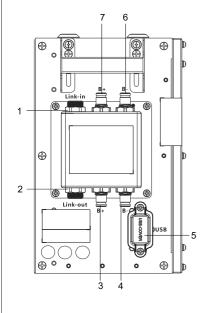
5.Wire Connection

APX 98020-P1 terminal & key description

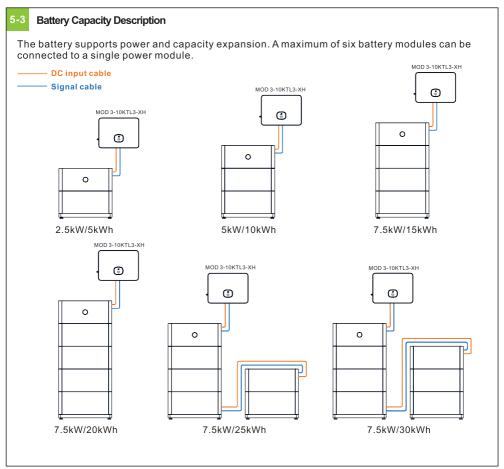


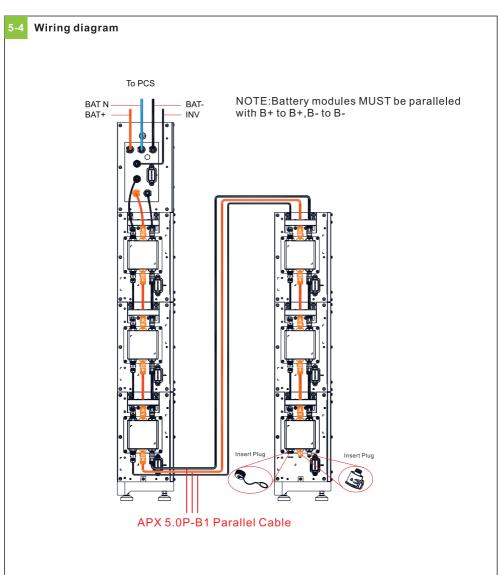
1	BAT-	Battery negative terminal to connected to the PCS
2	BATN	Battery neutral terminal to connected to the PCS
3	BAT+	Battery positive terminal to connected to the PCS
4	INV	Communication terminal connect to the PCS
5	вми	Communication terminal connect to the battery module (Link-in)
6	Module+	Connect to the positive battery termi-nal of the Battery Module (B+)
7	Module-	Connect to the positive battery termi-nal of the Battery Module (B-)
8	USB	USB terminal
9	Start	Start key

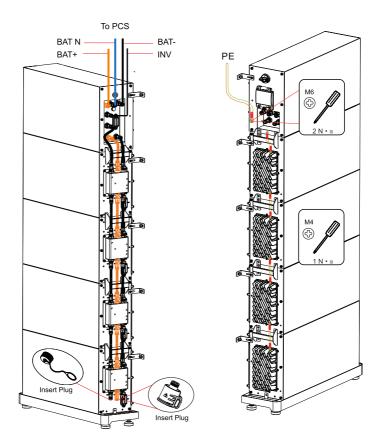
APX 5.0P-B1 Connection end face introduction



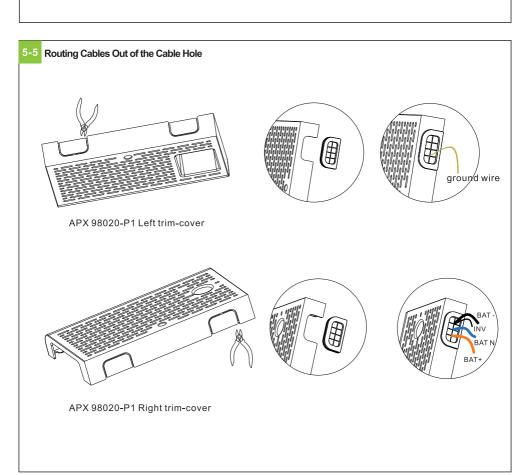
1	Link-in	Communication terminal Connect to another BM(Link-out) or the PM(BMU) Communication
2	Link-out	Communication terminal Connect to another BM(Link-in) or the PM(BMU)Communication
3	B+	Battery positive terminal Connect to another BM(B+)
4	B-	Battery negative terminal Connect to another BM (B-)
5	USB	USB terminal
6	B-	Battery negative terminal Connect to another BM(B-) or the PM (Module-)
7	B+	Battery positive terminal Connect to another BM(B-) or the PM (Module-)





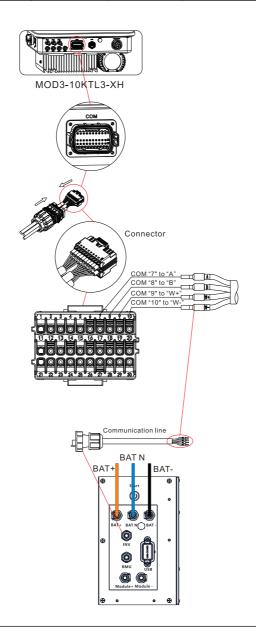


Note: It is not recommended to install a DC circuit breaker between the battery system and the PCS. If you want to install a DC circuit breaker with rated working voltage greater than 1000V and rated working current greater than 63A, do not operate the DC circuit breaker with power-on,otherwise the machine may be damaged.

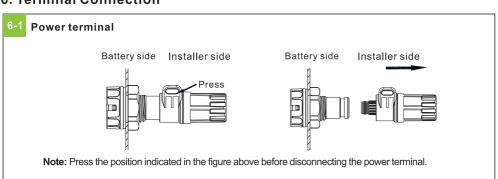


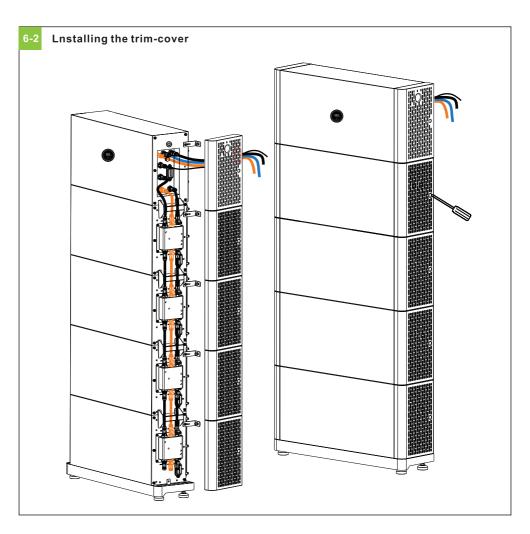
5-6 Communication port connection

APX 5. 0-30. 0P-S1		MOD 3-10KTL3-XH			
Silk screen	Terminal serial number	Definition	Silk screen	Terminal serial number	Definition
	1 WAKE-(W-)	10	BAT.EN-		
INV	2	WAKE+(W+)	СОМ	9	BAT.EN+
	7	RS485_B(B)		8	RS485B2
	8	RS485_A(A)		7	RS485A2



6. Terminal Connection





7. Key operation

Power on	Turn on the DC Switch Press the start key for more than 5S	OFF Press→
Power off	Turn off the DC Switch (waiting for over 90S)	Rotate NO OFF

Note: 1. Before performing maintenance and repair work, ensure that the AC circuit breaker and the PV switch of the PCS, as well as the switch of the APX are disconnected. Wait for 15 minutes after -tem is powered off and make sure that the LOGO (indicator on the APX is off. Do not perform any operations until the system is completely shut down.

When multiple battery systems are used in parallel connection, you only need to press the start key of one module to start the system.

8. Service and contact

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