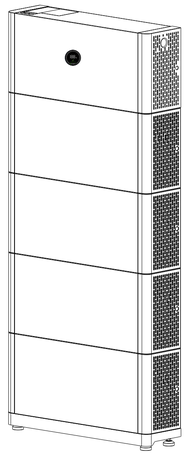
GROWATT

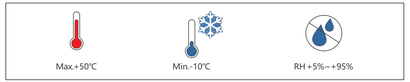
Quick Installation Manual

APX 5.0~30.0P-S1

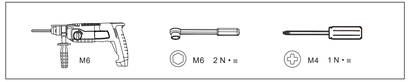


Shenzhen Growatt New Energy Co.,Ltd.

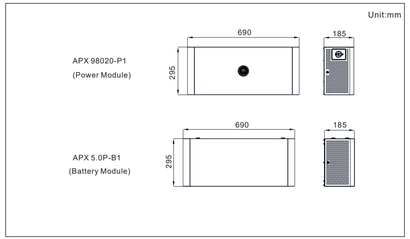
Environment requirements



Installation tools



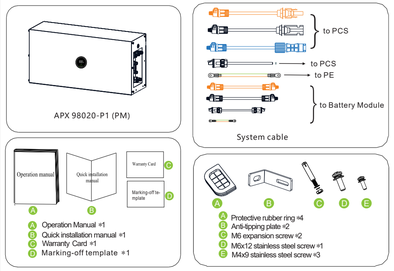
Dimensions

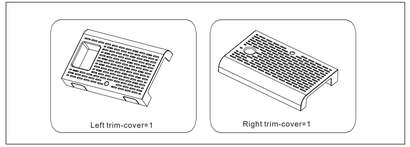


1. Inspection upon delivery

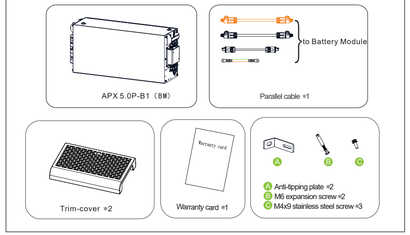
1-1 Checking the APX 98020-P1 packing list

Please check that the contentsare complet

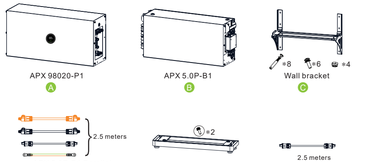




1-2 Checking the APX 5.0P-B1 packing list

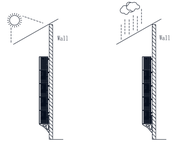


1-3 Check accessories



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

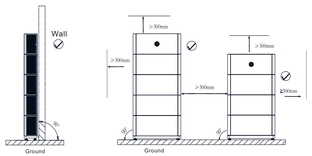
2.Installation Environment Requirement



Note: Install a sun/rain shade to avoid exposure to direct sunlight and rain.

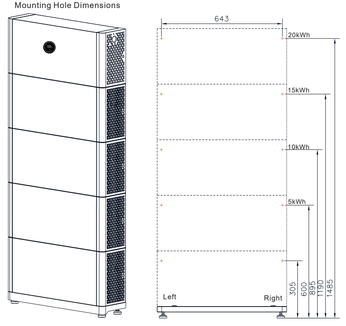
3. Floor-mounted installation

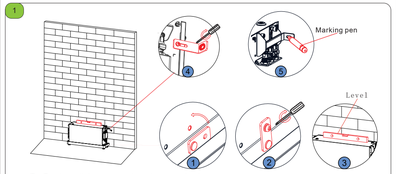
3-1 Installation Location Requirements

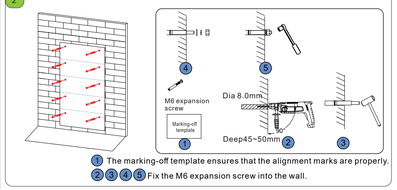


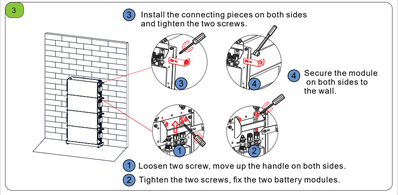
Note: When mounted on the ground,a maximum of six battery modules can be stacked.
If you are installing more than four modules you are advised to install them in two columns.

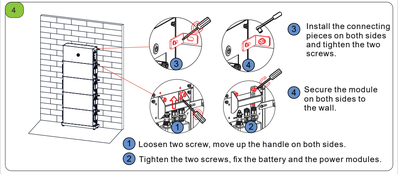
3-2 Installation Procedure Unit:mm





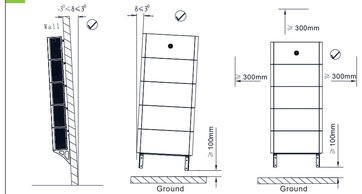






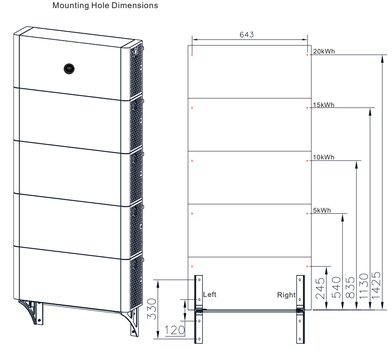
4. Wall-Mounted Installation

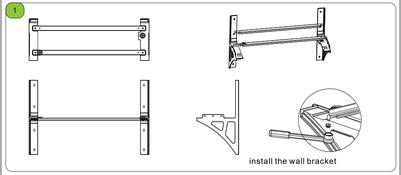
4-1 Installation Location Requirements



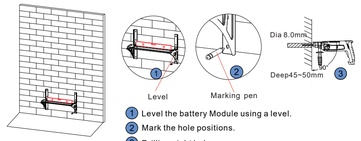
Note: When mounted on the wall,a maximum of five battery modules can be stacked.
Please ensure that the load-bearing capacity of the wall exceeds 280 kg.

4-2 Installation Procedure Unit:mm



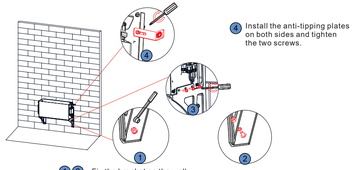


2



1 Level the battery Module using a level.
2 Mark the hole positions.
3 Drilling eight holes.

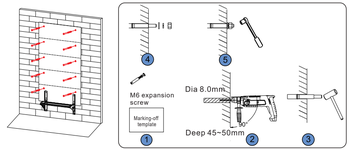
3



4 Install the anti-tipping plates on both sides and tighten the two screws.

1 2 Fix the bracket on the wall.
3 Fix the battery module on the bracket.

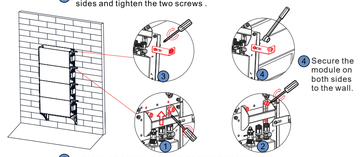
4



1 The marking-off template ensures that the alignment marks are properly palaced on the wall.
2 3 4 5 Fix the M6 expansion screw into the wall.

5

3 Install the connecting pieces on both sides and tighten the two screws .

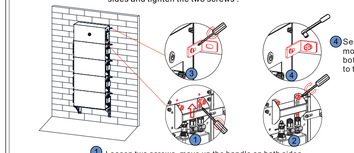


4 Secure the module on both sides to the wall.

1 Loosen two screws, move up the handle on both sides.
2 Tighten the two screws, fix the two battery modules.

6

3 Install the connecting pieces on both sides and tighten the two screws .

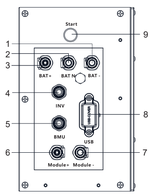


4 Secure the module on both sides to the wall.

1 Loosen two screws, move up the handle on both sides.
2 Tighten the two screws, fix the battery and the power modules.

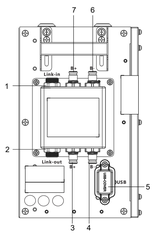
5.Wire Connection

5-1 APX 98020-P1 terminal & key description



1	BAT-	Battery negative terminal to connected to the PCS
2	BAT N	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	BMU	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

5-2 APX 5.0P-B1 Connection end face introduction

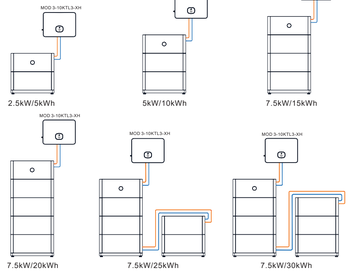


1	Link-in	Communication terminal Connect to another BM(Link-out) or the PM(BMU) Communication
2	Link-out	Communication terminal Connect to another BM(Link-in) or the PM(BMU)Communication
3	B+	Battery positive terminal Connect to another BM(B+)
4	B-	Battery negative terminal Connect to another BM (B-)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

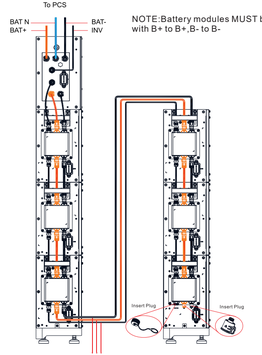
5-3 Battery Capacity Description

The battery supports power and capacity expansion. A maximum of six battery modules can be connected to a single power module.

DC Input cable
Signal cable



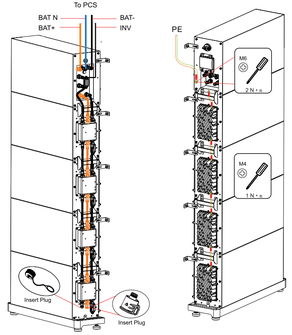
5-4 Wiring diagram



NOTE:Battery modules MUST be paralleled with B+ to B+,B- to B-

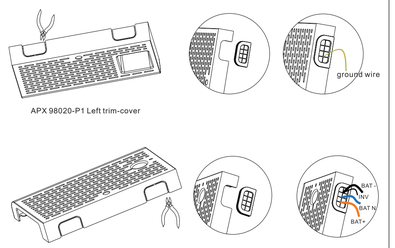
APX 5.0P-B1 Parallel Cable

wire connection sequence:
ground cable ⇨ communication cable ⇨ power cable



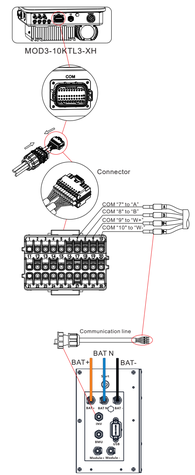
Note: It is not recommended to install a DC circuit breaker between the battery system and the PCS. If you want to install a DC circuit breaker with rated working voltage greater than 1000V and rated working current greater than 63A, do not operate the DC circuit breaker with power-on,otherwise the machine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

5-5 Routing Cables Out of the Cable Hole



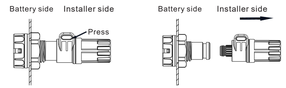
5-6 Communication port connection

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



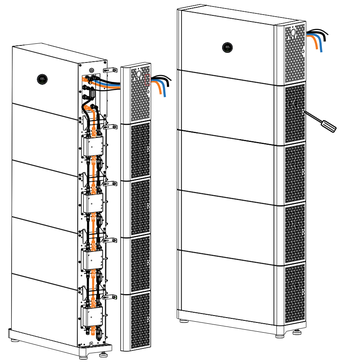
6. Terminal Connection

6-1 Power terminal



Note: Press the position indicated in the figure above before disconnecting the power terminal.

6-2 Lnstalling the trim-cover



7. Key operation

Power on	1. Turn on the DC Switch 2. Press the start key for more than 5S	NO, 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 the sys-tem is powered off and make sure that the LOGO (GROWATT) indicator on the APX is off. Do not perform any operations until the system is completely shut down.
2. 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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W:www.ginverter.com

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