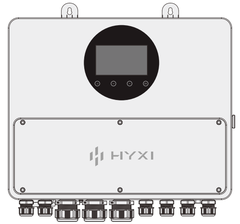
HYXI | HYXiPOWER

QUICK
INSTALLATION
GUIDE

LOW-VOLTAGE SINGLE-PHASE HYBRID INVERTER

HYX-H6K-LS / HYX-H8K-LS



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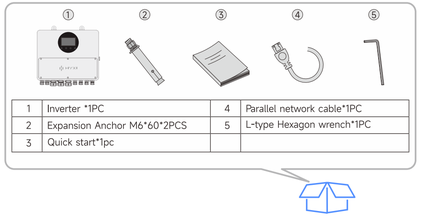
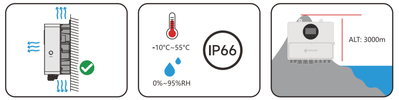
1 Packing List



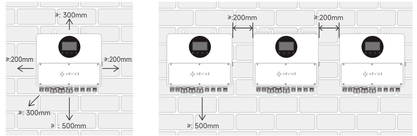
1	Inverter *1PC	4	Parallel network cable*1PC
2	Expansion Anchor M6*60*2PCS	5	L-type Hexagon wrench*1PC
3	Quick start*1pc		

2 Installation Preparation

2.1 Installation Environment Requirements

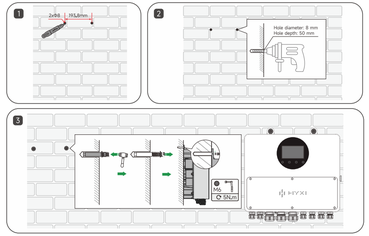


2.2 Installation Space Requirements



3 Installing The Inverter

- Step 1 Refer to the following drawing to mark the location of the wall mounting holes.
- Step 2 Use an impact drill with a drill bit of 8 mm (0.315 inches) in diameter to drill 2 holes, ensuring that the hole depth is about 50mm.
- Step 3. Use two M6 * 60 expansion screws to hang the inverter on the wall with the recommended torque (30 kgf.cm); at the same time, plug the expansion screw into the two holes.



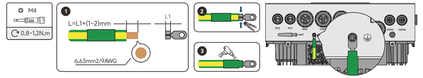
4 Electrical Connection

4.1 Grounding procedure

Please provide your own protective grounds with recommended specifications:
Type: outdoor multi-core copper cable.
Cross-sectional area of conductor: 13.3mm2/6AWG.

	Recommended terminal size							
	Dimension(mm)							
	$d2_{-0}$	W±0,2	L±1,0	F±1,0	E±0,6	D±0,5	d1±0,3	T±0,05
	4.3	8.0	21.5	9.3	8.5	7.2	4.5	1.2

- Step1:Make the cable and crimp the terminal block.
- Step2:Remove the screws from the grounding terminal and use a screw driver to secure the cable.
- Step3:Apply silicone or paint to the grounding terminal to improve its corrosion resistance.



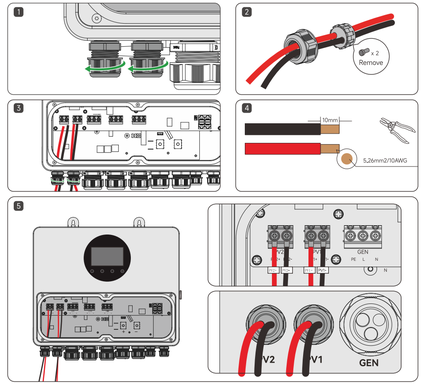
4.2 PV side connetion

1. Do not connect the same PV string to more than one inverter as this may cause damage to the inverter.
2. Before connecting the PV string to the inverter, please confirm the following information, otherwise it may cause permanent damage to the inverter, and in serious cases, it may cause a fire resulting in loss of life and property:

- Make sure that the maximum short-circuit current and maximum input voltage of each MPPT are within the allowable range of the inverter.
- Make sure that the positive terminal of the PV string is connected to PV+ of the inverter and the negative terminal of the PV string is connected to PV- of the inverter.

Serial No.	Inverter Model	Wire Size	Torque value
1	6K	5.26mm²/10AWG	1~1.2N·m
2	8K	5.26mm²/10AWG	1~1.2N·m

- Step 1. Unscrew the PV waterproof cap.
- Step 2. Thread the PV cable through the waterproof cap.
- Step 3. Position the PV cable appropriately, then screw the PV waterproof cap back on.
- Step 4. Strip the PV cable to the required length.
- Step 5. Secure the positive and negative terminals of the PV cable to their corresponding positions using a Phillips screwdriver.

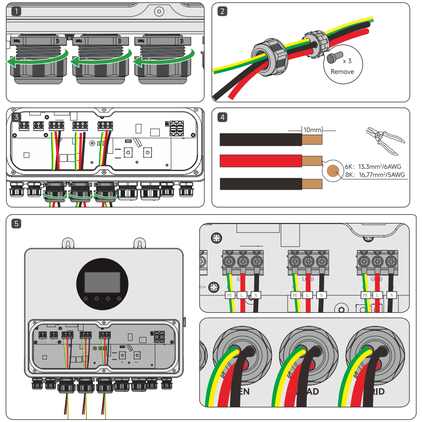


4.3 AC Cable Connection

1. It is prohibited to connect a load between the inverter and the AC breaker, directly connected to the inverter.
2. The inverter AC input and AC output ports have built-in relays. When the inverter is in off-grid mode, the built-in Grid-Tied relay is open; when the inverter is in charger mode, the built-in Grid-Tied relay is closed.

Serial No.	Inverter Model	Gauge (Grid-Tied)	Gauge (LOAD)	Gauge (Generator)	Torque value
1	6K	13.3mm²/6AWG	13.3mm²/6AWG	13.3mm²/6AWG	1~1.2N·m
2	8K	16.77mm²/5AWG	16.77mm²/5AWG	16.77mm²/5AWG	1~1.2N·m

- Step 1. Unscrew the waterproof cover of the AC cable (GRID or LOAD or GEN).
- Step 2. Feed the AC cable through the waterproof cover.
- Step 3. Position the AC cable appropriately, then screw the waterproof cover back onto the cable.
- Step 4. Strip the AC cable to the required length.
- Step 5. Secure the positive and negative terminals of the AC cable to their corresponding positions using a Phillips screwdriver.

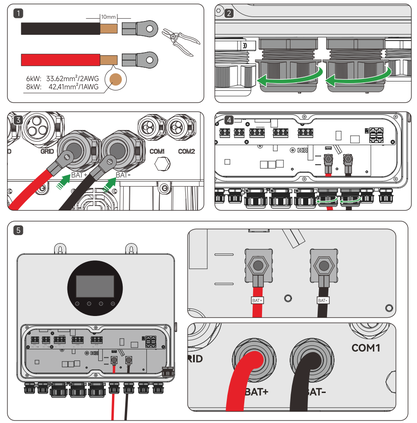


4.4 BAT Power Cable Connection

Please follow the requirements as below:

Serial No.	Inverter Model	Wire Size	Torque value
1	6K	33.62mm²/2AWG	2~3N·m
2	8K	42.41mm²/1AWG	2~3N·m

	Recommended terminal size							
	Dimension(mm)							
6K	d2	E	L	S	D	d1	W	
	6.5	14.2	38.0	2.5	10.6	8.2	15.2	
8K	d2	E	L	S	D	d1	W	
	6.4	18.0	44.5	2.9	13.0	10.0	18.5	

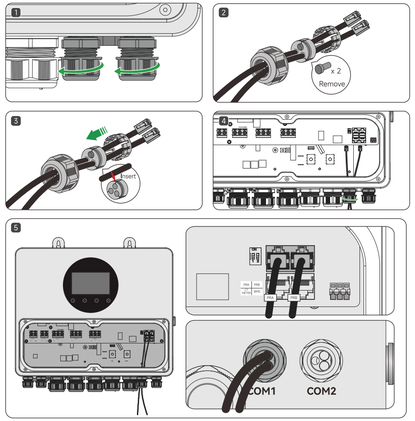


- Step 1. Strip the battery power cable to the appropriate length and fit the OT terminals.
- Step 2. Unscrew the waterproof cap from the battery power cable.
- Step 3. Feed the battery power cable through the waterproof cap.
- Step 4. Position the battery power cable correctly, then screw the waterproof cap back onto the AC cable.
- Step 5. Secure the positive and negative terminals of the battery power cable to their corresponding positions using a Phillips screwdriver.

5 Communication Connection

5.1 Communication port 1 (Parallel terminal)

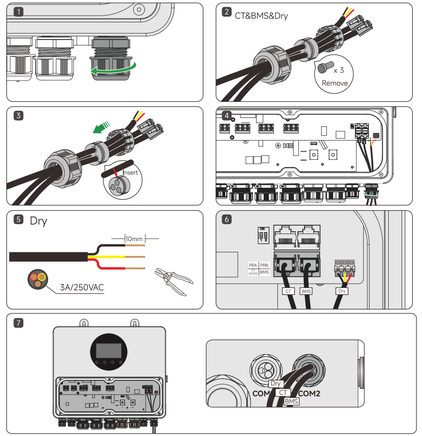
This communication port is designed for parallel cables; connecting to PRA and PRB enables parallel communication function.



Wire number	Definition	Functions	Description
1	SYN_GND3	Synchronization signal	Synchronization signals between parallel machines, and transmission of synchronization signals.
2	SYN3		
3	SYN_GND2		
4	SYN2		
5	SYN_GND1		
6	SYN1		
7	PR_CAN_L	CAN Communication	For CAN communication between parallel inverters, set the DIP switches of the first and last inverters to ON and the DIP switches of other inverters to OFF.
8	PR_CAN_H		

5.2 5.2 Communication Port 2 (CT/BMS/Dry)

This communication port is designed for CT (optional), BMS and Dry contact applications, accommodating cables for CT, BMS communication lines and dry contact wiring to fulfil the corresponding functions.



- CT (Option)

Wire number	Definition	Functions	Description
1	ICR+	External CT input	The External CT usage prevents backflow. The white wire of CT is connected to "ICR+", and the black wire of CT is connected to "ICR-".
2	ICR-	External CT input	
3	EX_NTC+	External NTC input	Allows external NTC input when detecting leadacid
4	EX_NTC-	External NTC input	
5	PC_485_A	PC_485_A	The RS485 communication interface of the PC supports communication rate of 115200bps
6	PC_485_B	PC_485_B	
7	Meter_485_A	Meter_485_A	The RS485 communication interface of the electric meter supports a maximum communication rate of 38400bps,default 9600bps
8	Meter_485_B	Meter_485_B	

- BMS

Wire number	Definition	Functions	Description
1	RS485_B	RS485_B	Reserved
2	RS485_A	RS485_A	
3	--	--	--
4	BMS_CAN_H	BMS_CAN_H	Supports CAN communication with BMS
5	BMS_CAN_L	BMS_CAN_L	
6	--	--	--
7	--	--	--
8	--	--	--

- Dry

Unit Status	Condition		Dry contact	
			NC & C	NO & C
Power Off	Unit is off and no output is powered.		Close	Open
Power On	Output is powered from Utility		Close	Open
	Output is powered from Battery power or Solar energy.	Battery voltage(SOC) < Low DC warning voltage(SOC)	Open	Close
		Battery voltage(SOC) > Setting value or battery charging reaches floating stage	Close	Open

6 System Commissioning

6.1 Installing the App

Method 1
Download the "HYXI APP" from the app store:

- App Store (IOS)
- Google Play

Method 2
Scan the QR code and download the APP :

App Download

6.2 APP Quick Guide

For more information on using the HYXI APP, please scan the QR code.

App Quick Guide

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