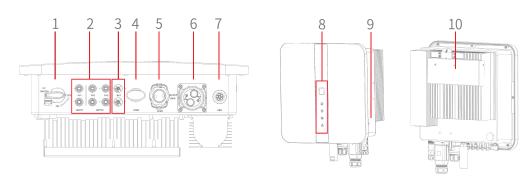
HI-3P(5-12)k-H Series Quick Guide

Ver 1.0 202308

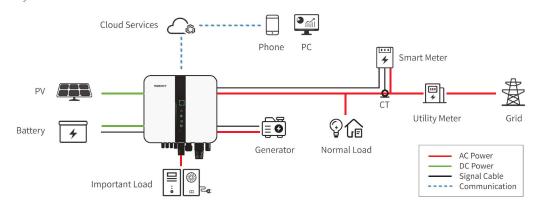
1. Overviews

Appearance:



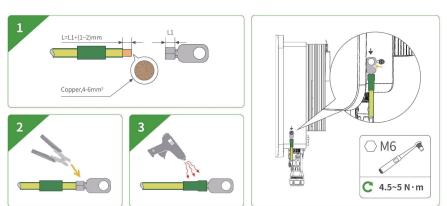
No.	Parts	No.	Parts	
1	DC switch	6	AC terminals	
2	2 PV input terminals 7 Generator		Generator	
3	Battery terminals	8	LED display	
4	Communication module port	9	9 Protective grounding terminal	
5	Communication port 10 Wall mounts		Wall mounts	

System Overview:



1

5. Grounding Connection

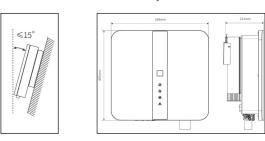


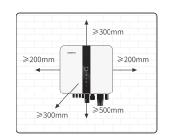
6. PV Connection



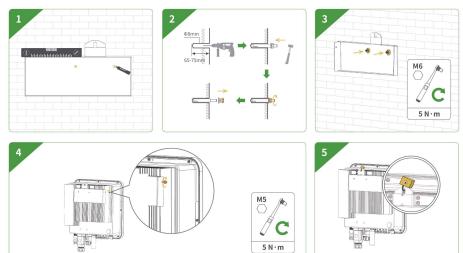
3

2. Installation environment requirements





3. Install inverter

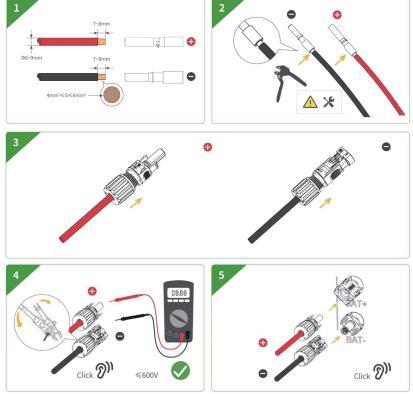


4. Connecting Cables

No.	Cable		Outer Diameter	Cross Section	
1	PV cable	Outdoor multi-core copper wire cable(Such as PV1-F)		6~9 mm	4~6 mm²
2	Battery cable	Complying with 1,000V and 30A standard Battery has its own power cable and communication cable ,use them directly .		6~9 mm	4~6 mm²
3	Communicati on cable	Shielded twisted pair		4.5~6 mm	2*(0.5~1.0) mm ²
		CAT 5E		4.5~6 mm	8*0.2 mm ²
4	AC cable	Grid Backup	Outdoor multi-core copper wire	13~18 mm	4~6 mm²
		Diesel generator	cable	14~17.5 mm	4~6 mm ²
5	Grounding cable	Outdoor single-core copper wire cable		The same as that of the PE wire in the AC cable	

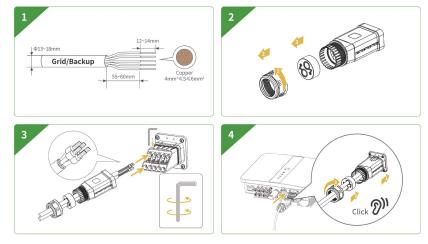
2

7. Battery Connection

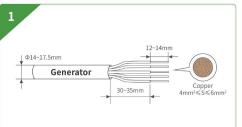


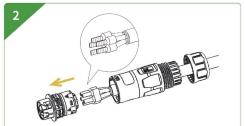
If Lithium Battery has its own power cable and communication cable , please use them directly .

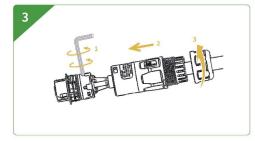
8. AC Connection

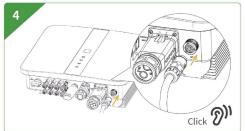


9. Generator Connection(Optional)

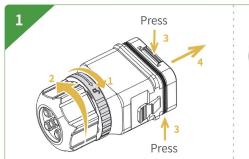


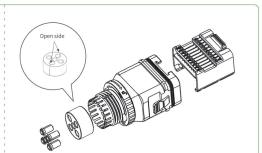




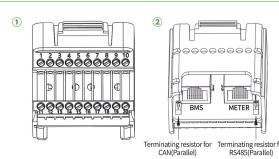


9.1 Communication port definition







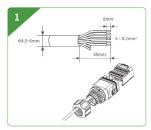


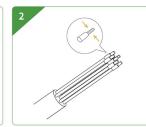
5

No. Pin definition Function Pin definition Function DO1+ CAN_L Dry contact 2 DO1-14 CAN_L CAN DO2+ 15 CAN_H Dry contact CAN_H DO2-16 5 FB_CTR_B RS485_A 17 Dry contact 6 FB_CTR_A 18 RS485_A RS485 DRM1/5 19 RS485_B DRM2/6 8 20 RS485_B 9 DRM3/7 METER RS485 DRED 10 DRM4/8 BMS CAN 11 DRM0 12 REF/GEN

9.2 Other devices connection (Optional)

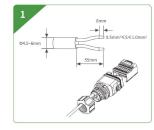
■ Connect the DRM connection







■ Connect other cables

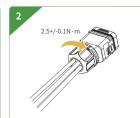


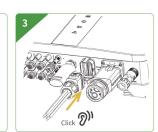




9.3 Communication port installation

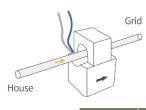


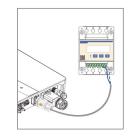


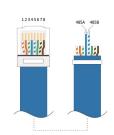


9.4 Smart meter and CT connection

■ RJ45 terminals definition (to inverter)





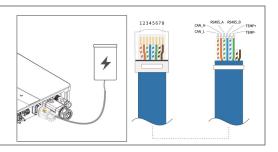


PIN	Color	Pin definition	
1	Orange White		
2	Orange	NC	
3	Green White		
4	Blue	RS485_A	
5	Blue White	RS485_B	
6	Green		
7	Brown White NC		
8	Brown		

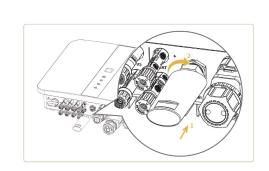
9.5 BMS port connection

■ RJ45 terminals definition (to inverter)

		,		
PIN	Color	Pin definition		
1	Orange White	TEMP+		
2 Orange NC		NC		
3	Green White	TEMP-		
4	Blue	CAN_H		
5	Blue White	CAN_L		
6	Green	NC		
7	Brown White	RS485_A		
8 Brown		RS485 B		



10. Communication Module Connection (Optional)



11. Checking Before Operation

No.	Check Items	
1	The inverter installed firmly that easily for operation and maintenance.	
2	All lines, including PE, PV, Battery, AC and communication, are connected correctly and firmly.	
3	The cable bundling complies with the wiring requirements, is properly distributed, and free	
	from damage.	
4	Ensure that a waterproof cover is installed for unused wire holes	
5	Ensure that the used wire holes have been sealed	
6	Verify that the voltage and frequency of installed location meet the grid-tied requirement	

12. System Power On/Off

Before turning on the AC switch between the inverter and the grid, use a multimeter to check that the AC

voltage is within the allowed range.

Step 1: Turn on the AC circuit breaker on the BACK-UP side of the inverter.

Step 2: Turn on the AC circuit breaker on the BACK-UP side of the inverter.

Step 3: Turn on the energy storage circuit breaker between the inverter and the battery. Step 4: Turn on the DC switch of the inverter.

Step 5: Send a system check command on the APP (optional).

Step 6: Observe the LEDs to check the inverter operating status. To shutdown steps are opposite to the above order.

LED	Status	Description			
	Red LED indicator on	A fault has occurred		LED indicator	BMS and meter communication are ok
Fault	Red LED indicator on blink 1	RCM OR IRD fault	COM (A)	LED indicator blink1/blink2	BMS or meter communication fails
	Off	No fault		LED indicator off	Both BMS and meter communications are fails
PV	LED indicator on/blink1	PV is generating power		Full LED indicators on	Each indicator means Battery SOC is 25%
PV	LED indicator off	PV is not working	soc	One LED indicator blink1	Battery SOC is below 10%
AC	LED indicator on	Grid is active and connected		Full LED indicators off	Battery is disconnected / not active
ACO	LED indicator blink1	Grid is disconnected but EPS is on			
	LED indicator off	Grid is disconnected and EPS is off			

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13. Service and contact

Web:www.yienergy.com/en/service/ E-mail:support@yienergy.com

Tel:+86-400-103-7723

Address:No.161 Yuancheng Road, Qiantang District, Hangzhou, Zhejiang, China

YI Energy Technology (Zhejiang) Co., Ltd.