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A									A
В									B
	技术更求.								
	1. 成品页面尺寸: A4;								
_	2 1050双铜纸双面彩色打印,								
	3. 未注尺寸按±1.5mm;		F			DESIGNED BY	DESCRIPTION		-
	4 图面、字体印刷清晰,无乱码、无偏移、无毛动 2	不起边、油墨不脱落:				DR CABLES	奏宝相 Ouice In	HHT5-12	$\langle $
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	5. 付台KoHS;				()DECIMALS ()RANGE	600-1000 :+30/-0 000 :+50/-0	徐承宏	HHT5-12	к
				MYPDNTECH	X.X ±0.2 >50-200 ±0.2 FC	DR PACKING MATL. APPROVED BY	DRAWING NO./FILE NO.		1
					X.XXX :±0.05	10-100 :±2 00-300 :±3	张道伟		4
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FRAME NO .: J-FR-RD005-A2

Quick Installation Guide

HHT-5K/ HHT-6K/ HHT-8K/ HHT-10K/ HHT-12K

1 Product Overview

- 1、LED&LCD or LED
- 2、DC Switch
- 3, PV Terminal (s)
- 4、Battery Terminal
- 5, COM1: Wi-Fi/GPRS/4G 6, COM2: BMS/CT/Meter/DRED/RS485
- 7、Back-up Terminal
- 8, AC Terminal
- 9, Secondary PE Terminal

Dimension:W×H×D=425×351×200mm

2 Packing List



3. Installing



- 1. Please install the inverter(s) in places that can avoid inadvertent contact.
- 2. Please install the inverter on solid/smooth surfaces. 3. The inverter(s) should not be installed near inflammable or explosive objects.





X

Cable Specifications

No	Item	Туре	Specifications			
1	PE cable	Outdoor copper cable	Conductor cross-section: 10mm ²			
2	AC Output cable	Outdoor copper cable	Conductor cross-section: 5K:4~6 mm²;6~8K:6~8 mm²;10~12K:8~10 mm²			
3	DC Input cable	Standard outdoor PV cable, PV1-F Model recommended	Conductor cross-section: 2.5~6 mm ²			
4	AC Backup cable	Outdoor copper cable	Conductor cross-section: 5K:4~6 mm²;6~8K:6~8 mm²;10~12K:8~10 mm²			
5	Battery cable	Outdoor copper cable	Conductor cross-section: 6mm ²			
6	Meter/RS485/DRED	Outdoor shielded twisted pair cable	Conductor cross-section:0.14~1.0mm ²			



HYPDNTECH

3.1 Mountina

- 3.1.1 Use the wall bracket as a template mark the holes on the wall. Drill three holes in the marked position of 10mm diameter and 70mm depth
- 3.1.2 Fix the expansion bolts and mounting the main bracket with the screws in mounting accessories
- 3.1.3 Attach the inverter to the mounting bracket, mounting the support bracket on the bottom of the inverter
- 3.1.4 Check both sides of heat sink and ensure the inverter is stably attached
- 3.1.5 Use M5 screws (torgue: 2.5Nm) to attach the heat sink fins to the mounting bracket
- 3.1.6 It is recommended to attach an anti-theft lock to the inverter



3.2 Installing the PE Cable

A second PE terminal is equipped at the bottom of the inverter. Ensure the PE terminal is reliably grounded

Object	Description
1	Housing
2	M6 terminal lug with protective conductor
3	M6×16 screw
Tighten it firr	nly into the housing (Torque: 3.5-5N.m)

Proper grounding connection of the second PE terminal and the AC terminal is mandatory. NOT properly connecting

3.3 AC Wire Assembly and Connection

DANGER

Danger to Life due to High Voltages in the Inverter



3.4 DC Wire Assembly and Connection

Meeting the following requirements is mandatory. All warranty rights will otherwise be invalid.

- 3.4.1 Maximum open circuit voltage of each string is less than 1000V 1
- 3.4.2 Maximum short circuit current of each PV input is less than inverter allowable limit.
- 3.4.3 The string is well insulated to ground in all cases.
- 3.4.4 Make sure that the DC connectors have the correct polarity.
- 3.4.5 If the PV connectors are not assembled properly and locked into place, arc or overheat may be induced.





3.5 Battery Wire Assembly and Connection

Meeting the following requirements is mandatory. All warranty rights will otherwise be invalid.

3.5.1 Make sure there is an external DC breaker (=40Å) connected for battery without built-in DC breaker.

3.5.2 Please ensure the battery model is enlisted in the suggested list in the user manual. Provent reverse polarity connection! 3.5.3 If the Battery connectors are not assembled properly and locked into place, arc or overheat may be induced.



3.6 Wi-Fi/GPRS/4G Connection (Optional)

The stick is included in the scope of delivery as an option. 3.6.1 Tighten the stick into the COM1 port. Make sure the stick is

securely connected.

3.6.2 For the connection and configuration of the stick please refer to $<\!Wi\mathchar`$ stick User manual>.

3.7 **CT Connection**

3.7.1 The arrow on the CT points to the inverter during installation. 3.7.2The white line on the CT is connected to "CT+", and the black line is connected to "CT -".

Position Step 1

3.8 RS485/Smart Meter/DRED Connection



Approx. 20mm

-Approx. 5mm

U_CT- ▶ 3(CT1-) For the furthest inverter of such connection, only 1 port is occupied. V_CT+ ▶ 4(CT2+) The button on the side of the occupied port must be pushed to 'ON V CT- > 5(CT2-) for matched resistance W CT+ ▶ 6(CT3+) RJ45 1 RJ45 2 W CT- ▶ 7(CT3-) RS485 FOR COM1 12345678 12345678 METER FOR COM2 87654321 MATERA 16(META) Power+ ▶ PIN 1 MATERB 17(METB) Rj45 Plug Power - ▶ PIN2 DRED FOR COM2 botton RS485B RS485A RS485 A ▶ PIN3 COM LOAD/0 • RI451-7 RI451 RI452 REF GEN/0 ▶ R|451-8 RS485 B ▶ PIN4 hotton. botton 2 Assemble the locking cap, threaded Screw the connector into the socket and tighten firmly. sleeve and swivel nut together.



4. Commissioning

Please check if

1. The inverter and mounting bracket have been correctly installed. 2. The inverter's exposed metal surface has a ground connection. 3. The resistance between PV arrays and ground is greater than 1Mohm. 4. For any unused DC terminals, there are DC connectors inserted to the terminal and sealed with waterproof caps. 5. The grid voltage at the point of connection of the inverter is within the permitted range. 6. The AC circuit breaker must be correctly rated and wired. 7. The cable communication connectors have been correctly wired and tightened.

Startup

Switch on the DC switch after finishing the above checks, then switch on the AC circuit breaker. When there is sufficient DC power applied and the grid conditions are met, the inverter will start to operate automatically.

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For more information, please download the user manual and other technical documents at www.hypontech.com



