

13-Pro 15-30KV

onnectors-EPS

k installation guide

2. Installation Steps

as shown below

bject Quantity De

R 1

Please make sure the inverter will be installed with a proper distance

rv pin contac

(2\*positive, 2\*negative) Hexagonal screw M5\*10 grounding screw

Mechanical Lock

Step1: Choose the right location

Step2: Mark the position

Arrow pointing up.

Step3: Drill the 6 holes with a ø8 drill bit.

Depth: at least 50mm Hammer the expansion tubes

. .

Use a spirit level to adjust the installation position.



500mm

500mm

500mm

500mm

Left

Right

Top

Bottom

Installing the Bracket Screw the expansion bolts



Step4: Match the inverter with bracket

Lock the screws on the side Make sure the inverter is firmly attached.



# 3. DC Connection

PV Connection

Choose 4mm<sup>2</sup> wire to connect the PV



----- 6.0mm



PV+uses such terminal Plug Pin contact cable nu

4mm<sup>2</sup>

B. GRID Wiring

S

• Separate the ON-GRID plug into three parts as below.

1. Hold the middle part of the female insert, rotate the back shell to loosen it and detach it from female inset

2. Remove the cable nut (with rubber insert) from the back shell



• Slide the cable nut and then the back shell onto the cable.



• Push the threaded sleeve into the socket, tighten up the cap on the terminal and the torque is (4-5N.m).



 Push the threaded sleeve to connection terminal until both are locked tightly on the inverter.



 Remove the GRID connector: Using the matching U-shaped unlocking tool remove the external mechanical latch, swirl the swirl, and then pull it out.



Grounding Wiring



- 6.0mm 16mm<sup>2</sup> 24.9-30KW

Insert striped cable into earth terminal and ensure all conductor strands

are captured in the earth terminal

- Crimp earth terminal by using a crimping plier. Put the
- earth terminal with striped cable into the corresponding
- crimping pliers and crimp the contact.

Use the crimping pliers to press the ground cable into the ground ter

# screw the ground screw with screwdriver as shown below



Meter and RS485 should be connected to inverter by the connector



1	2	3	4	5	6	7	8
DRY	DRY	DRY	DRY	,	,	Meter	Mete
RLY2-	RLY2+	RLY1-	RLY1+	1	,	485A	4858
9	10	11	12	13	14	15	16
GND	GND	+12V	DV C+rl	1	,	1	,
TVS	COM	SELV	RICU	,	1	,	
17	18	19	20				
EMS	EMS	,	,				
485A	485B	1	1				

Note: GND TVS, RY Ctrl, these wiring terminals are tested in the factory, please do not connect them







Insert striped cable into pin contact and ensure all conductor strands are captured in the pin contact

Crimp pin contact by using a crimping plier. Put the pin contact with striped cable into the corresponding crimping pliers and crimp the contact

D+ 

Press the wire and terminal tightly with a wire clamp Insert pin into the male or female plug. Until hear a "click"









- BAT cable is in the BMS package and is recommended. Connect the BAT of the inverter and the battery port of the BMS with a power cable.
- Communication with BMS, BMS communication line needs to be shorter than 10m Assemble the gland and screw the nut. Min. operating voltage of the BAT is 120V.
- Unlock the DC connector
- Use the specified wrench tool
- When separating the DC+ connector, push the tool down from the top. When separating the DC- connector, push the tool down from the bottom Separate the connectors by hand.

Battery Wiring

- Turn off the DC switch
- Choose 10mm<sup>2</sup> wire to connect the batter Trim 6mm of insulation from the wire end



illustrated in the figure below. All ports in connector should connect to the corresponding ports on inverte

METER/C	CT/RS485 ir	nterface (	20pin term	inals)		
1	2	3	4	5	6	
DRY	DRY	DRY	DRY	,	,	
RLY2-	RLY2+	RLY1-	RLY1+		· '	
9	10	11	12	13	14	
GND	GND	+12V	DV Ctrl	1	,	
TVS	COM	SELV	RICUI	· ·		



1) Pin11 is the power supply+12V, and Pin10 is the corresponding GND used.

2) The maximum load of the 12V power supply port cannot exceed 10W (instantaneous current cannot exceed 1A); Otherwise, it will damage the inverter



GND GND COM COM DRM0 1 Inte: ARM 485A ARM 485B GND COM VCC these wi actory. please do not connect them

Devellel1 (24 sis to reside)

Parallel1	(24pin term	inais)					
1	2	3	4	5	6	7	8
CAN H1	CAN L1	WIFI 485A	WIFI 485B	485A	10ED	GND	/
0,	0/11/21			100/1	4030	COM	,
Parallel2	(24pin term	inals)					
1	2	3	4	5	6	7	8
CAN H1	CAN L1	WIFI 485A	WIFI 485B	485A	485B	GND	/
0,	0, 1, 1, 1, 1			100/1	1005	COM	,







Unlock the DC connector

Separate the DC connector (battery) as below.

Plug Pin contact cable nut

· Crimp pin contact by using a crimping plier. Put the

pin contact with striped cable into the corresponding

Insert striped cable into pin contact and ensure all conductor strands

· Insert pin contact through the cable nut to assemble into back of the

male or female plug. When you feel or hear a "click" the pin contact

are captured in the pin contact.

crimping pliers and crimp the contact.

assembly is seated correctly.

- Use the specified wrench tool.

BAT1+/- SMS1

When separating the DC+ connector, push the tool down from the top.

- When separating the DC- connector, push the tool down from the bottom.

Separate the connectors by hand.



Step1: Cabl	e dimensio	ons				
Modell (kW)	10.0	12.0	15.0	20.0-22.0	24.9-25.0	29.9-30.0
Cable (ON-GRID)	6.0-10.0mm <sup>2</sup>	6.0-10.0mm²	6.0-10.0mm <sup>2</sup>	10.0-16.0mm²	10.0-16.0mm²	10.0-16.0mm²
Micro-Breaker	40A	40A	50A	63A	63A	80A
Modell (kW)	10.0	12.0	15.0	20.0-22.0	24.9-25.0	29.9-30.0
Cable (EPS)	6.0-10.0mm <sup>2</sup>	6.0-10.0mm <sup>2</sup>	6.0-10.0mm <sup>2</sup>	10.0mm²	10.0mm²	10.0mm²
Micro-Breaker	40A	40A	50A	63A	63A	80A

Step2: Prepare AC wire as shown in the picture



L1/L2/L3: Brown/Red/Green or Yellow Wire

N: Blue/Black Wire

PE: Yellow & Green Wire Note: Please refer to local cable type and color for actual installation.

A. EPS Connection

Disassemble the connector



• Tighten the wire with a screwdriver, The torque of the crimp screw is 2.0±0.1N·m. Be sure to disconnect all power supplies before removing the protective end caps and wait 10 minutes before performing maintenance work



• Put the sealing body and varn tranner into the main body screw the lock nut into the main body, and the torque is  $(2.5 + / - 0.5N \cdot m)$ .



• The female end of the wire is inserted into the male end of the line and ccompanied by a click sound, and the installation is comple



 Use a screwdriver to align the unlock position and press and Hold the thread and pull it back to complete the separation of the male and female.



# H3 PRO QUICK INSTALLATION GUIDE

	7	8				
ARM	ARM	GND				
485B	485A	COM				
14	15	16				
DRM2	DRM3	DRM4				
ng terminals are tested in the						



1. Compatible Meter type: DTSU666 (CHINT).

2. For other pin definitions, please refer to the user manual. 3. Communication A and B are marked on the side of the meter:







Note

# 5. Inverter Start-Up

Please refer to the following steps to start up the inverter

1. Ensure the inverter fixed well

- 2. Make sure all wirings are completed
- Make sure the meter is connected well
- 4. Make sure the battery is connected well
- 5. Make sure the AC-EPS contactor is connected well (if needed).
- 6. Make sure the BMS buttons and battery switch are off.
- 7. Turn on the PV/DC switch (for Hybrid version only), AC-GRID breaker, EPS breaker and battery breaker
- 8. If the main page shows "switch off", please long press " $\nu$ " bottom to quickly go to the START/STOP page and set it to start. (Enter the settings page, default password is '0000').
- Add boot-up guide interface, the first boot-up need to select the safety regulations and set the time.
- Set the time on the inverter using the button or by using the APP.

- 1. Enter the settings page, select START / STOP and set it to stop.
- 2. Turn off the PV/DC switch (for Hybrid version only), AC breaker, EPS breaker and battery breaker.

1 The inverter installation in complete. For battery installation, please refer to battery quick installation guide.

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Local wiring colors are based on local codes, the quick release diagrams are for

# Inverter Switch Off

- Please refer to the following steps to switch off the inverter.

- 3. Wait 5 min before you open the upper lid (if in need of repair).