1 Quick Installation

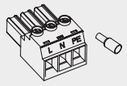
1.1 Packing List

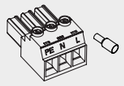

Inverter×1


Wall Bracket×1


Expansion Bolt×5


PE Terminal×2


Back Up AC Terminal×1
Cord End Terminal×4


On Grid AC Terminal×1
Cord End Terminal×4


AC Cover×1
Screw×6


Wattsonic Meter with 3 CTs×1
Cord End Terminal × 4


BAT Plug×1


PV Terminal×2


Monitoring Device × 1
(optional)


User Manual×1
Quick Guide ×1
Inspection Report×1
Grid Connection
Licence ×1

1.2 Installation Spacing

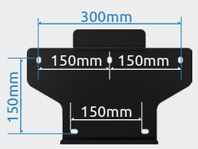


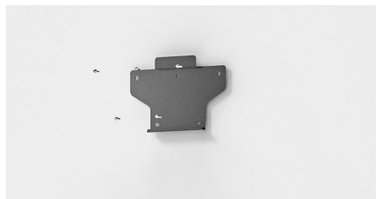


1.3 Mounting the Inverter

Use the wall bracket as the template to mark the position of 5 holes on the wall.

Use an electrical driller with 10mm diameter bit to drill 5 holes on the wall and make sure hole depth is 80mm.



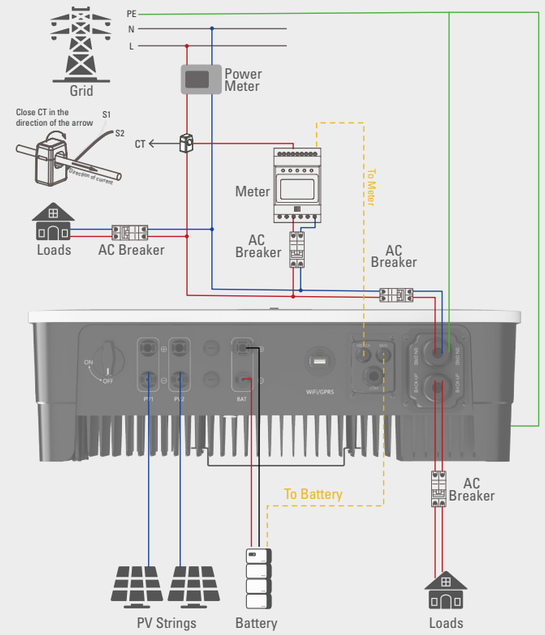


Insert the expansion tubes into the holes and tighten them, then fix the bracket onto the wall with expansion screws by using a cross screwdriver. Lift up the inverter with both hands, hang the back rail on the fixed wall bracket carefully.

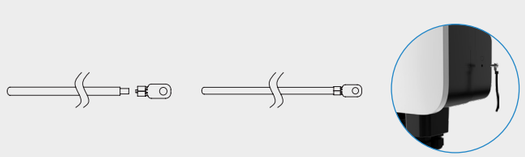




1.4 Electrical Wiring Diagram

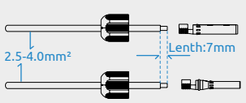


1.5 Ground Terminal Connection

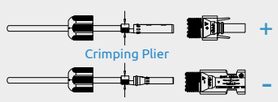


1.6 PV Connector Assembly Procedure and Connection

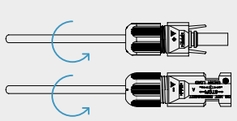
Cable type	Conductor cross-setional area (mm²)	
General photovoltaic cable	Scope (mm²)	Recommended value(mm²)
	2.5-4.0	4.0



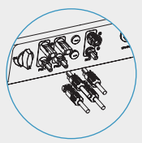
① *Strip off the cable sheath*



② *Press the metal terminal*



③ *Tighten the DC connector*



④ *Insert the connectors*

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QUICK INSTALLATION GUIDE

WTS 3~8kW - HVS Series
Single Phase Storage Inverter

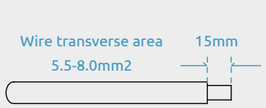
WATTSONIC SERVICE GLOBAL CONTACT

WATTSONIC CHINA
B1-416, NO. 200 Linghu Road,Xinwu District, Wuxi 214110, CHINA
T.+86 510 8102 6876
E.service@wattsonic.com

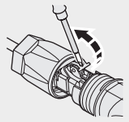
May 2021 Version1.0

1.7 Inverter Battery Connector Assembly Procedure

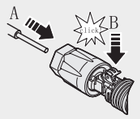
Cable type	Conductor cross-setional area (mm²)	
AWG 10	Outside diameter (mm²)	Conductor core section (mm²)
	5.5-8.0	4.0-6.0



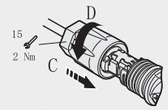
① *Strip off the cable sheath*



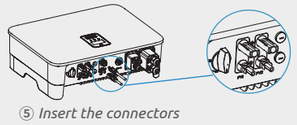
② *Open the clamping bracket*



③ *Insert the cable and toggle the clamping bracket*



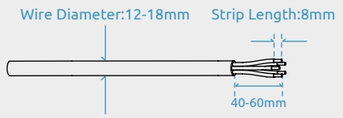
④ *Lock the connector*



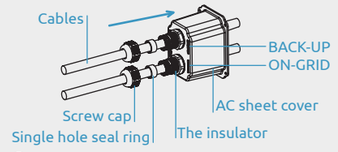
⑤ *Insert the connectors*

1.8 AC Output Connector Connection

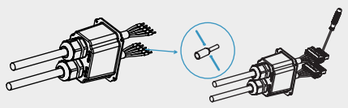
Model	WTS-3KW-HVS	WTS-3.6KW-HVS	WTS-4.2KW-HVS	WTS-4.6KW-HVS	WTS-5KW-HVS	WTS-6KW-HVS	WTS-7KW-HVS	WTS-8KW-HVS
Outside diameter (mm)	12-18	12-18	12-18	12-18	12-18	12-18	12-18	12-18
Conductor core section(mm²)	4-10	4-10	4-10	4-10	6-10	6-10	6-10	6-10
Breaker (A)	20	25	25	25	30	40	50	50



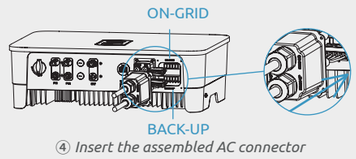
① *Peel off the insulation sleeve*



② *Insert the cables through the connector cover*



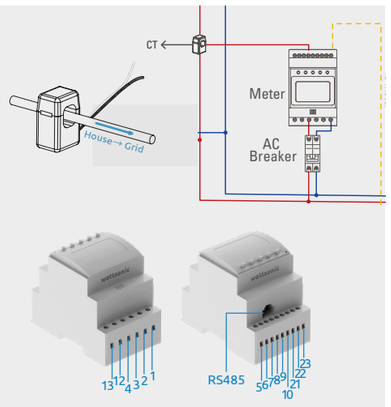
③ *Press the cord end terminals and lock it*



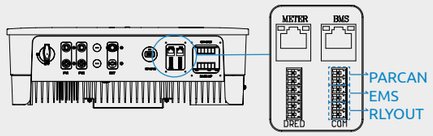
④ *Insert the assembled AC connector*

1.9 CT and Meter Connection

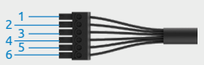
No.	Definition	Function
1	L1	L1/L2/L3/N connect to grid to detect power grid voltage
2	L2	
3	L3	
4	N	
5	L1-S1	Connect CT to detect current
6	L1-S2	
7	L2-S1	
8	L2-S2	
9	L3-S1	
10	L3-S2	
12	L	Power supplied from 220V grid
13	N	
RS485	RS485	Communicate with inverter



1.10 Inverter Communication Connection

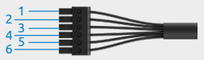


Type	Definition
METER	Communicate with Meter
BMS	Communicate with BMS
DRED	For Australia use/One key to shut off
PARCAN	Parallel CAN communication bus interface
EMS	EMS power dispatching interface
RLYOUT	Dry contact output, a group of normally open contact passive dry contact



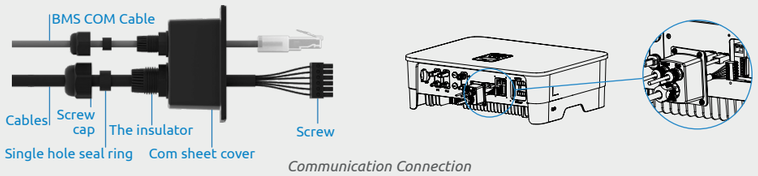
No.	1	2	3	4	5	6
Definition	CAN PAR		EMS		RLY OUT	
	CAN_H	CAN_L	RS485_B	RS485_A	RLY_COM	RLY_NO

Parallel connection/EMS/relay output dry contact terminal



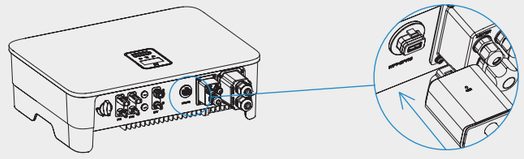
No.	1	2	3	4	5	6
Definition	COM/DRMO	REFGEN	DRM4/8	DRM3/7	DRM 2/6	DRM1/5

DRED terminal



Communication Connection

1.11 Monitoring Device Installation



2 WiFi Module Configuration Guide

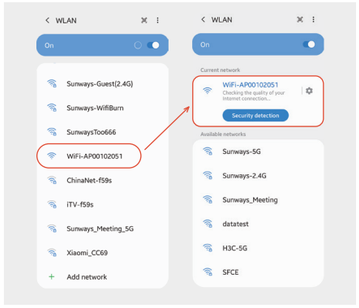
2.1 WiFi module configuration.

A. Insert the WiFi module into the COM port at the bottom of the inverter and power on the inverter, and the indicator on the module is off now.

B. Prepare a laptop or Smartphone and turn on the WLAN connection.

C. Search for the WiFi name WiFi-AP********" which released by the module (*represents the last 8 numbers of the data logger SN) and click the WiFi name.

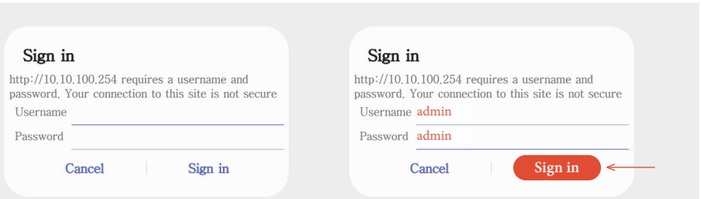
D. WiFi connection succeeded as shown on the right.



2.2 Open the browser and browse 10.10.100.254

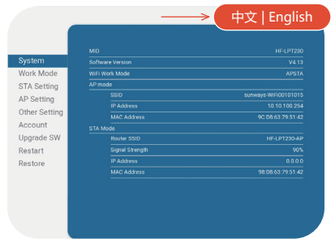
You will see the following picture, input the username and password "admin" and click "Sign in".



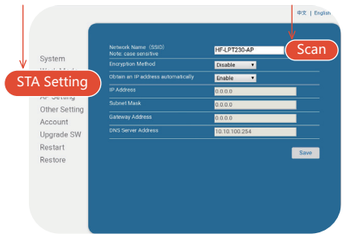


2.3 You will enter the interface "System".

Note: Click the "Chinese/English" in the upper right corner to switch the interface language.



2.4 Click "STA Setting" to enter the WiFi configuration interface, and click "Scan" a list of WiFi network will show up.

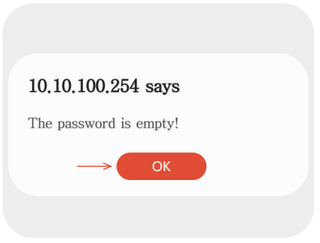


2.5 Select the WiFi that you are going to connect and click "OK".

Note: Only support 2.412GHz-2.484GHz router at present.



2.6 Now, a notice will pop-up and reminds you to input the WiFi password, click "OK".

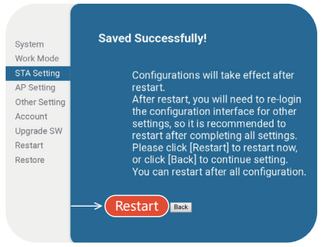


2.7 Input the password in the blank and click "Save".

Note: Password is case sensitive.



2.8 The system will show "Saved Successfully!", click "Restart" to complete the WiFi configuration.



2.9 After the configuration succeeded, the indicator on the WiFi module will be always on.

