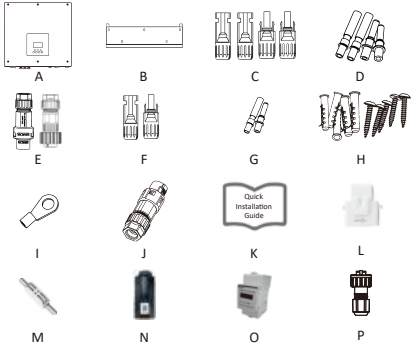


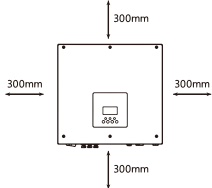
1. Packing List



Object	Quantity	Description	Object	Quantity	Description
A	1	Inverter	I	1	Earth terminal
B	1	Bracket	J	1	Communication connector
C	4	PV connectors (2*positive, 2*negative)	K	1	Quick installation guide
D	4	PV pin contacts (2*positive, 2*negative)	L	1	CT (with 10m cable)
E	2	AC connectors	M	1	CT extension connector
F	2	Battery connectors (1*positive, 1*negative)	N	1	WiFi/LAN/4G (Optional)
G	2	Battery pin contacts (1*positive, 1*negative)	O	1	Meter (Optional)
H	5	Expansion tubes& Expansion screws	P	1	RS45

2. Inverter Installation

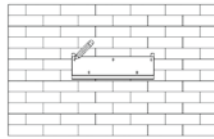
Please make sure the inverter will be installed with a proper distance as shown below.



Position	Min Size
Left	300mm
Right	300mm
Top	300mm
Bottom	300mm
Front	300mm

Step 1: Fix the bracket on the wall

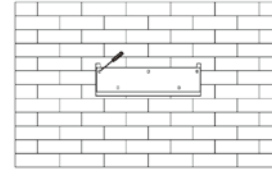
Choose the place you want to install the inverter. Place the bracket on the wall and mark the position of the 5 holes from bracket.



Drill holes with electric drill, make sure the holes are at least 50mm deep, and then tighten the expansion tubes.

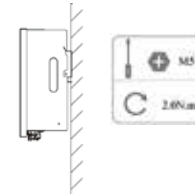
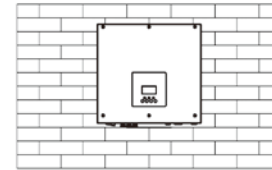


Insert the expansion tubes into the holes and tighten them. Install the bracket with the expansion screws.



Step 2: Match the inverter with wall bracket

Hang the inverter over the bracket, slightly lower the inverter, and make sure the two mounting bars on the back are properly fixed with the two bracket grooves.



3. Collegamenti porta seriale

Il contatore e la RS485 devono essere collegati all'inverter tramite il connettore illustrato nella figura seguente. Tutte le porte del connettore devono essere collegate alle porte corrispondenti dell'inverter.



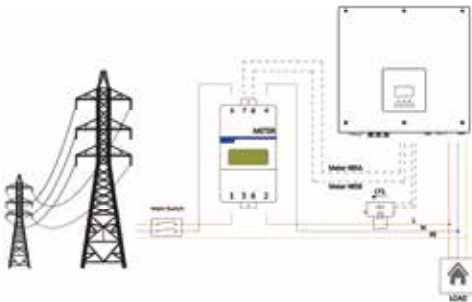
PIN	1	2	3	4	5	6	7	8
Port								
CT/ Meter/ 485	Meter 485A	Meter 485B	485B	485A	CT2+	CT2-	CT1-	CT1+

Porte di comunicazione per il contatore

Nota:

- CT1: Per l'ibrido, CT2: Inverter collegato alla rete (se presente).
Il rosso corrisponde a CT+, il nero a CT-.
- Tipo di misuratore compatibile: DDSU666 (CHINT), SDM230 (EASTRON).
Le comunicazioni A e B sono contrassegnate sul lato del misuratore.
- Per le definizioni degli altri pin, consultare il manuale d'uso.

4. Typical Wiring Diagram



Note:

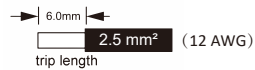
Meter type: DDSU666 (CHINT)

Please be noted that the load/inverter connections and grid connections are illustrated in the figure below. Port 10 is specifically for neutral connection.

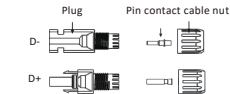
5. Wiring Steps

PV Wiring

- Choose 12 AWG wire to connect the PV module.
- Trim 6mm of insulation from the wire end.



- Separate the DC connector (PV) as below.

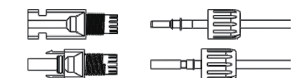


- Insert striped cable into pin contact and ensure all conductor strands are captured in the pin contact.

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



- 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 assembly is seated correctly.

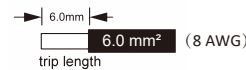


- Unlock the DC connector:

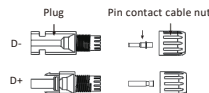
- Use the specified wrench tool.
- When separating the DC+ connector, push the tool down from the top.
- When separating the DC- connector, push the tool down from the bottom.
- Separate the connectors by hand.

Battery Wiring

- Turn off the DC switch.
- Choose 8 AWG wire to connect the battery.
- Trim 6mm of insulation from the wire end.



- Separate the DC connector (battery) as below.



- 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.



- 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 assembly is seated correctly.



- Unlock the DC connector

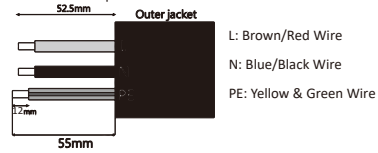
- Use the specified wrench tool.
- When separating the DC + connector, push the tool down from the top.
- When separating the DC - connector, push the tool down from the bottom.
- Separate the connectors by hand.

AC Wiring

Cable dimensions

Model (kW)	3.0	3.7	4.6	5.0	6.0
Cable (GRID)	8.0-10.0mm²				
Cable (EPS)	4.0mm²	4.0mm²	6.0mm²	6.0mm²	6.0mm²
Micro-Breaker	50A	50A	63A	63A	63A

- Trim all the wires to 52.5mm and the PE wire to 55mm.
- Use the crimping pliers to trim 12mm of insulation from all wire ends as shown in the picture.



Note: Please refer to local cable type and color for actual installation.

- A. EPS Wiring
- Separate the EPS 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. Install the cable into the plug terminal and lock the screw, torque is (1.0+/-0.2 N.m).



- Push the threaded sleeve into the socket, tighten up the cap on the terminal.

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



- Loosen the cap on the terminal, pull the threaded sleeve out of the socket.

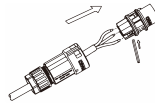


B. GRID Wiring

- Separate the 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.

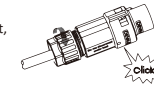


- Slide the cable nut and then the back shell onto the cable. Install the cable into the plug terminal and lock the screw, torque is (2.0+/-0.2 N.m).

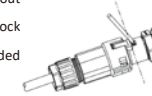


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- Push the threaded sleeve into the socket, tighten up the cap on the terminal.
- Push the threaded sleeve to connection terminal until both are locked tightly on the inverter.

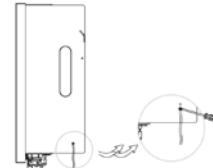


- Remove the AC connector: Press the bayonet off of the slot with a small screwdriver or the unlock tool and pull it out, or unscrew the threaded sleeve, then pull it out.



Grounding Wiring

Use the crimping pliers to press the ground cable into the ground terminal, screw the ground screw with screwdriver as shown below.



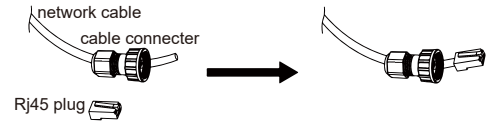
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BMS Connection

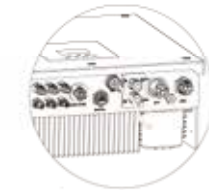
Step 1: Prepare a standard network cable and cable connector, then insert the network cable through the cable connector.



Step 2: Crimp the cable with a Rj45 plug which is inside of the cable connector.



Step 3: Insert the cable connector into BMS port at the bottom of inverter.



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6. Avviamento inverter

Per la messa in funzione dell'inverter, fare riferimento alla seguente procedura.

1. Assicurarsi che l'inverter sia ben fissato alla parete.
2. Assicurarsi che tutti i cablaggi siano stati completati.
3. Assicurarsi che lo strumento sia ben collegato.
4. Assicurarsi che la batteria sia ben collegata.
5. Assicurarsi che il contattore EPS esterno sia ben collegato (se necessario).
6. Accendere l'interruttore PV/DC, l'interruttore AC, l'interruttore EPS e l'interruttore della batteria.
7. Se la pagina principale mostra "modalità off", premere a lungo il tasto "enter" in basso per passare rapidamente alla pagina START/STOP e impostare l'avvio. (Entrare nella pagina delle impostazioni, la password predefinita è '0000').

Nota:

- Quando si avvia l'inverter per la prima volta, il codice paese viene impostato di default sulle impostazioni locali. Verificare che il codice paese sia corretto.
- Impostare l'ora sull'inverter utilizzando il pulsante o la APP.

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7. Spegnimento inverter

Fare riferimento ai seguenti passaggi per spegnere l'inverter.

1. Accedi alla pagina delle impostazioni, seleziona START / STOP e impostalo per l'avvio.
2. Spegnere l'interruttore PV/DC (solo per ibridi), l'interruttore AC, l'interruttore EPS e l'interruttore della batteria.
3. Attendere 5 minuti prima di aprire il coperchio superiore (se necessita di riparazione).

Nota:

La porta Ethernet sotto l'inverter serve solo per il monitoraggio locale (via registro), Per la connessione LAN è necessario acquistare un prodotto separato, Smart LAN. L'installazione dell'inverter è completa. Per l'installazione della batteria, consultare la guida all'installazione rapida della batteria.

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