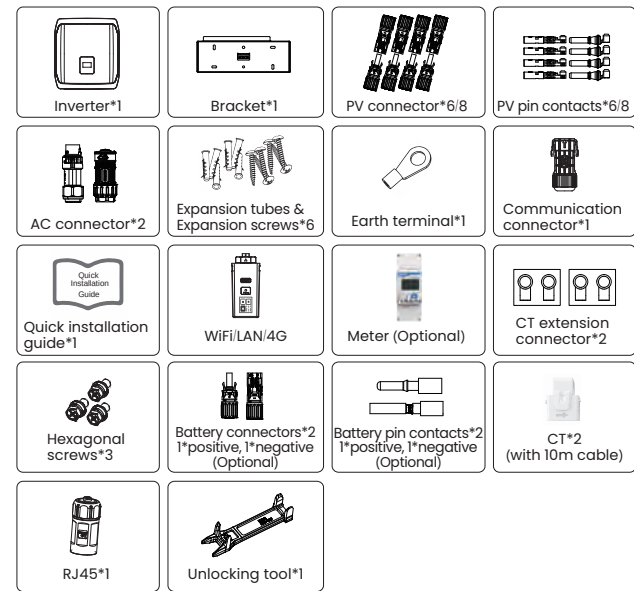


Quick Installation Guide

Models: Inverter vision one 1.1 (7kW) Inverter vision one 1.1 (8kW)
Inverter vision one 1.1 (9kW) Inverter vision one 1.1 (9.9kW)
Inverter vision one 1.1 (10kW) Inverter vision one 1.1 (10.5kW)
7-10.5kW Single Phase Storage Inverter

1. Packing List

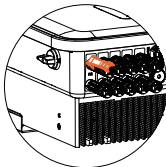


NOTE

- For 7-8kW, there are 6 PV connectors and 6 PV pin contacts (3*positive, 3*negative); For 9-10.5kW, there are 8 PV connectors and 8 PV pin contacts (4*positive, 4*negative).
- For Australian market, the package will include two CTs and there would be no battery connectors and battery pin contacts.

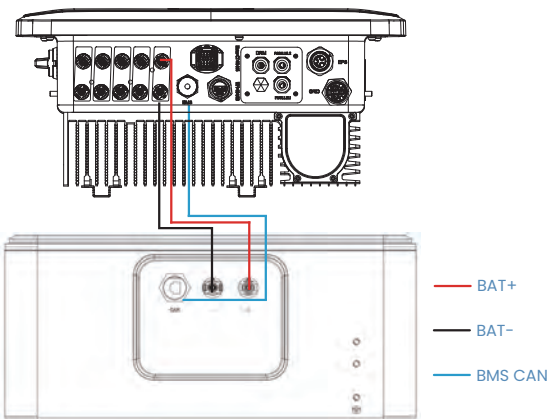
1

- When disconnecting the DC connector, please use the unlocking tool in the package.
 - Align it with the buckle slot and press downward.
 - Then pull the terminal outward.



Battery Wiring

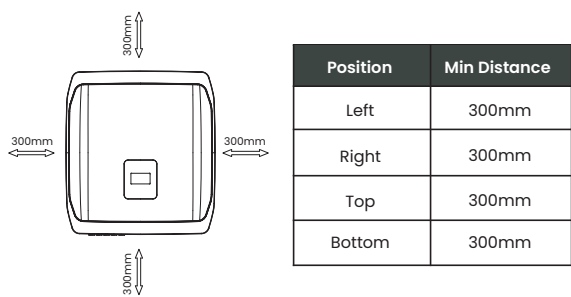
- Turn off the DC switch.
- Prepare BAT wire.
We recommend to use the original Bat-Inverter power cable and communication cable from Battery's accessory bag. If require a longer cable, please contact our sales representative to purchase.
- Connect the power line and communication line between the BMS and the inverter.



7

2. Installation Steps

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

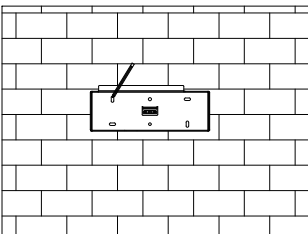


Position	Min Distance
Left	300mm
Right	300mm
Top	300mm
Bottom	300mm

Step1: Fix the bracket on the wall

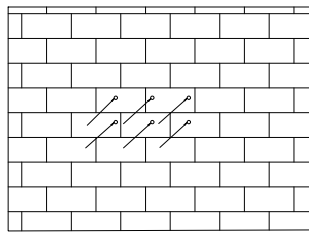
Choose the place you want to install the inverter.

Place the bracket on the wall and mark the position of the 6 holes from bracket.

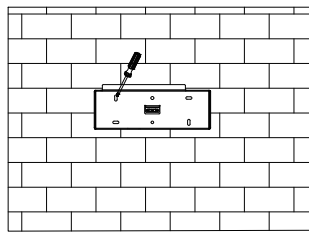


2

Drill holes with electric drill, make sure the holes are at least 50mm deep and 8mm wide, and then tighten the expansion tubes.

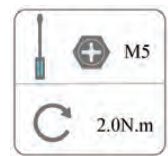
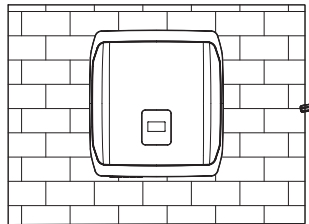


Insert the expansion tubes into the holes and tighten them. Install the bracket with the expansion screws.



Step2: Match the inverter with wall bracket

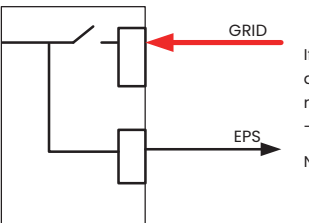
Mount the inverter to the bracket. Secure the inverter with the M5 screw and washer.



3

Table2: Without EPS Function

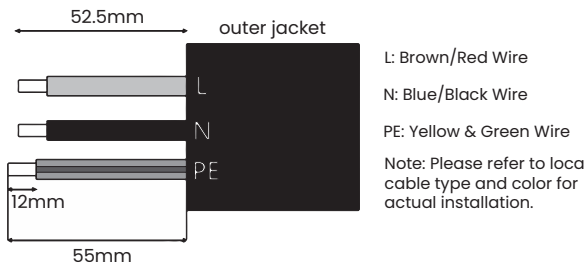
	Power (kW)	7.0-8.0	9.0-10.5
GRID	Cable	6mm²	10mm²
	Micro-Breaker	50A	



If the EPS port is not needed, you can disable the EPS function via the LCD screen menu (Settings -> Off-Grid -> EPS Output -> Disable).

Note: See Table2 for cable dimensions.

- 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.



L: Brown/Red Wire

N: Blue/Black Wire

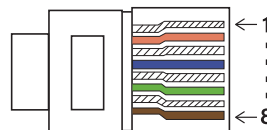
PE: Yellow & Green Wire

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

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3. Serial Port Connections

Communication interface between the inverter and CT/Meter/485/DRM/Parallel 1/Parallel 2 are as follows with RJ45 connectors which should be inserted corresponding port in the inverter.



PIN	1	2	3	4	5	6	7	8
Port	DRM	DRM1/5	DRM2/6	DRM3/7	DRM4/8	+3.3V	DRM0	GND
Parallel 1	E_STOP	GND_COM	/	Parallel_CANH	Parallel_CANL	/	Parallel_485B	Parallel_485A
Parallel 2	E_STOP	GND_COM	/	Parallel_CANH	Parallel_CANL	/	Parallel_485B	Parallel_485A

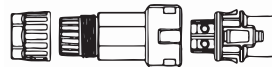
Note: RJ45 corresponds to DRM/Parallel/Parallel2.

4

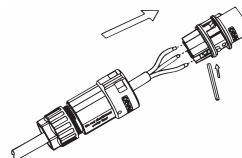
A. GRID Wiring

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

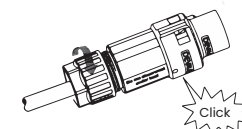
- Hold the middle part of the female insert, rotate the back shell to loosen it, and detach it from female inset.
- Remove the cable nut (with rubber insert) from the back shell.



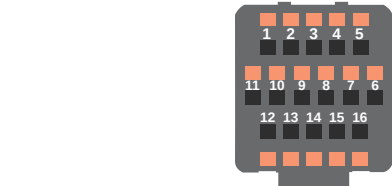
- Slide the cable nut and then the back shell onto the cable. Install the cable into the plug terminal and lock the screw (torque 3.0±0.3 N·m).



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



10



PIN	1	2	3	4	5	6	7	8
Port	CT/Meter/485	Meter 485A	Meter 485B	EMS 485B	EMS 485A	CT2+	CT2-	CT1-
PIN	9	10	11	12	13	14	15	16
Port	CT/Meter/485	/	K1	K2	K3	K4	/	DI

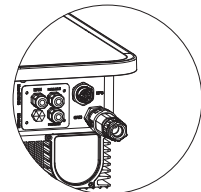
- CT1: For Inverter vision one 1.1, CT2: Grid tied inverter (if existed).
- Compatible Meter type: DDSU666 (CHINT), SDM230 (EASTRON).
- CT
- K1/K2, K3/K4 are dry contacts or external heat pump control signals.
- DI/COM is an external input signal.

NOTE

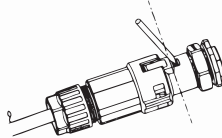
- Please contact the distributors to purchase meter and CT. The part number is listed below:
Meter: 30-803-00027-00 (230V, 80A), 30-803-00030-00 (3×230/400V, 80A)
CT: 30-804-00003-00, 30-804-00004-00, 30-804-00025-00
- The CT and meter both support a maximum distance of 100 meters.

5

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



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



B. EPS Wiring

- Set the parts on the cable one by one.



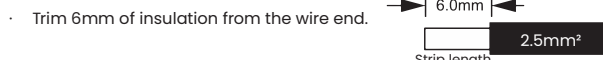
11

4. Wiring Steps

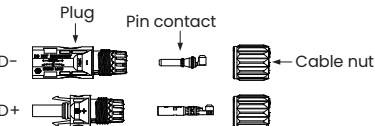
Note: Please use the connectors provided in the accessory kit for wiring.

PV Wiring

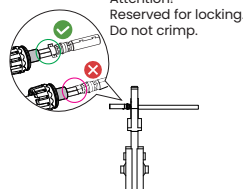
- Choose 2.5mm² wire to connect the PV module.



- Separate the DC connector (PV) as below.

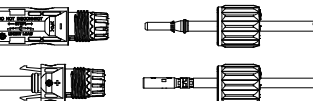


- Insert striped cable into pin contact and ensure all conductor strands are captured in the pin contact.



- Crimp pin contact with crimping pliers. 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.



6

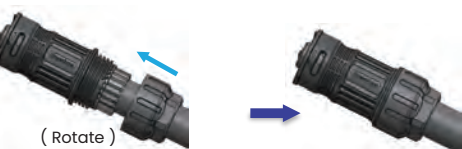
- Wire crimping cord end terminal can be inserted into the housing quickly according to the sign (torque 1.0±0.1 N·m).



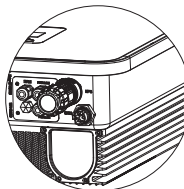
- The housing is inserted into the socket.



- Insert Seal and Clamp Finger into socket, then tighten the nut (torque 5±1 N·m).



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



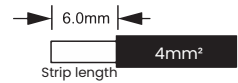
12

- Remove the EPS connector: press the connector unlock with a small screwdriver or the unlock tool and pull it out.



Grounding Wiring

Trim 6mm of insulation from the wire end.

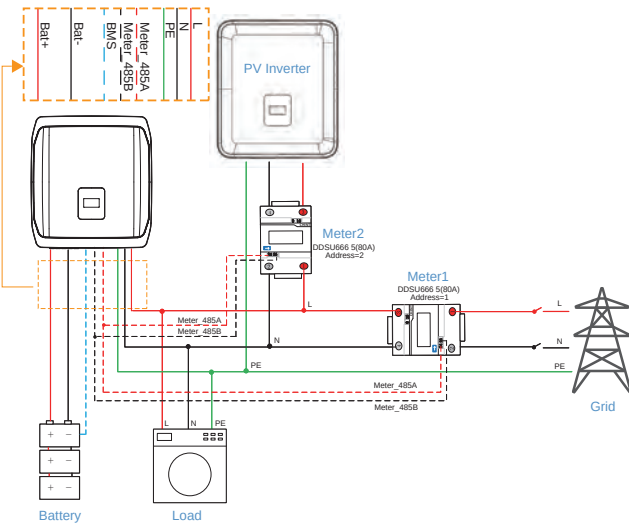


- Insert striped cable into earth terminal and ensure all conductor strands are captured in the earth terminal.

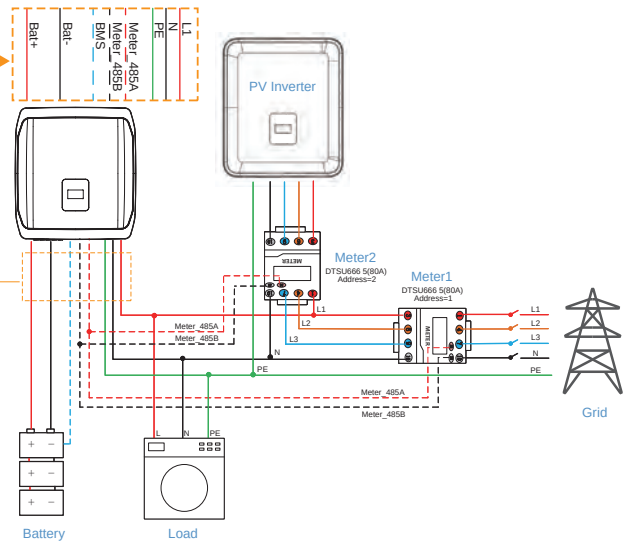
- Crimp the earth terminal with crimping pliers. Put the earth terminal with striped cable into the corresponding crimping pliers and crimp the contact.

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

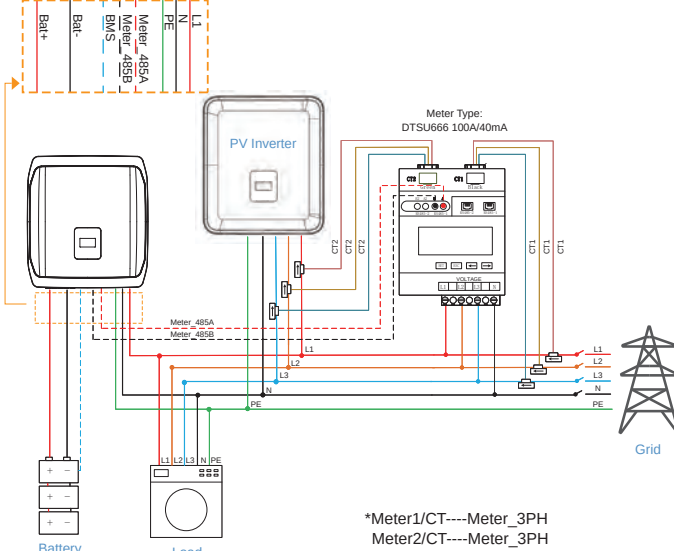
Meter1+Meter2 (single phase):



Meter1+Meter2 (three phase):

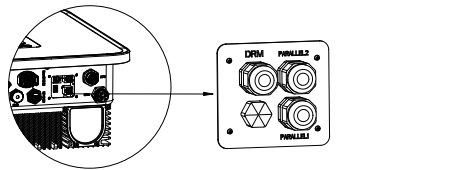


Meter (three phase) + 6 CTs:

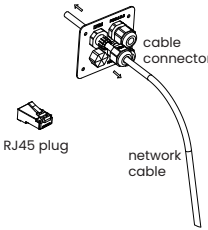


DRM Connection

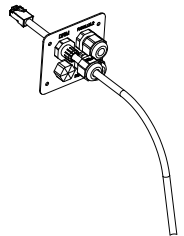
Step 1: Screw the cable connector off from the inverter.



Step 2: Prepare a standard network cable and RJ45 plug, then insert the network cable through the cable connector.

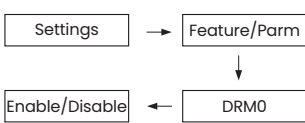


Step 3: Crimp the cable with the RJ45 plug using a crimping tool.

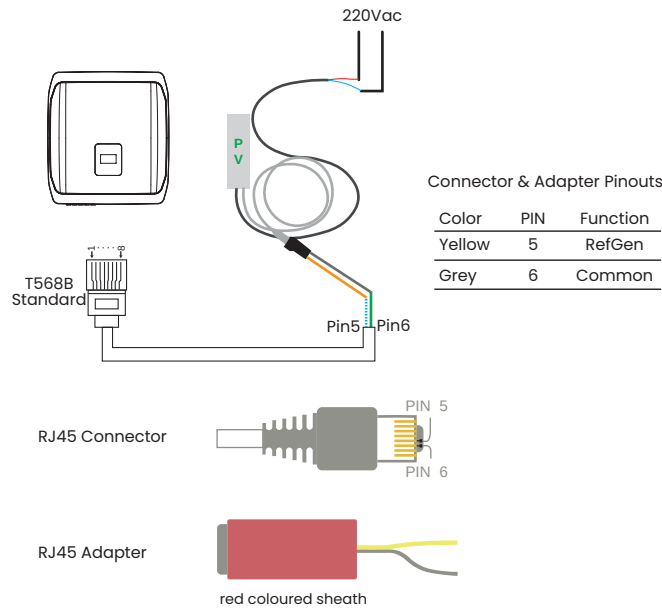


Step 4: Insert the cable connector into DRM port at the bottom of the inverter and screw it tightly.

Steps to Enable DRM:

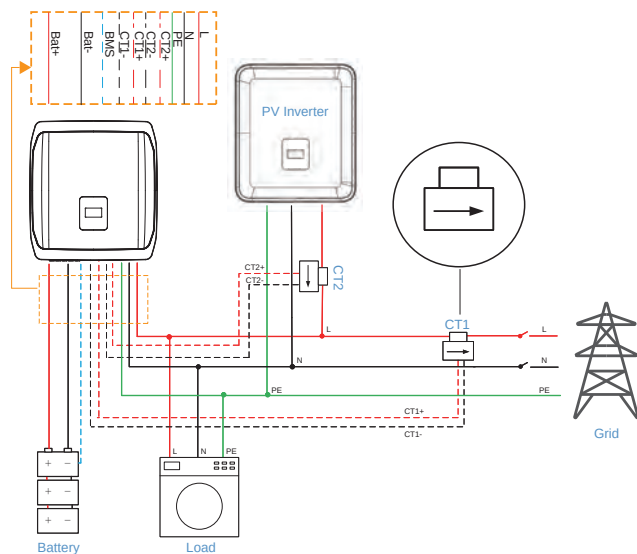


System Diagram of DRM0 (only for Australia):



Note: Similar adapters with a black coloured sheath are fitted with four wires and will not work on PV inverters.

CT1+CT2:



NOTE

Contains app download path, configuration process, etc..

