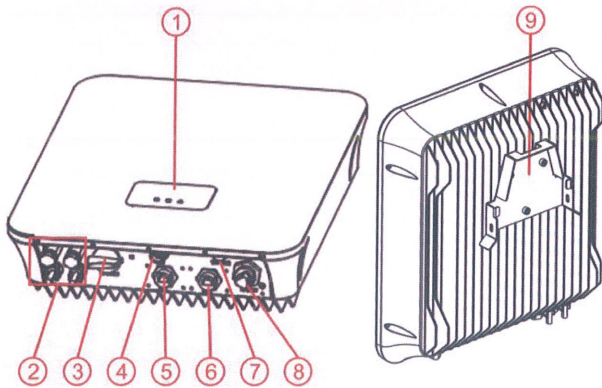


Anti-Backflow Meter Installation Guide

(2 kW-6 kW Grid-Connected PV Inverter)

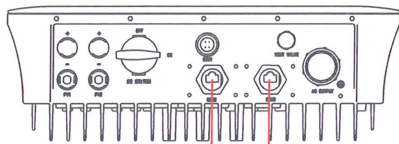
1 Inverter Overview



No.	Description	Explanation
①	LED display panel	To display the inverter running state / communication status
②	DC input terminals	To connect inverter to PV modules
③	DC switch	To directly control DC input On / Off
④	Communication terminals	To connect Wi-Fi or other communication module
⑤	Meter communication and digital input	Input interface for electric meter communication and external digital input
⑥	DRM communication	Interface of demand response modes for Australia grid dispatching
⑦	Ventilation valve	To prevent from condensing and fogging, and balance differential pressure between inside and outside the cabinet
⑧	AC output terminals	To feed the inverter output energy into the grid
⑨	Mounting bracket	To fix the inverter on the wall mounting bracket

2 Meter Communication Interfaces

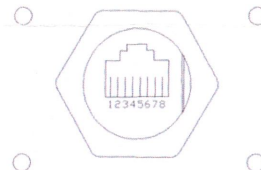
The RJ45 plug for electric meter communication and digital input is inserted into the COM2 connector, the RJ45 plug for DRM communication is inserted into the COM3 connector (only for Australian configuration).



Meter communication and digital input

DRM Communication

The enlarged image of the meter communication interface and DRM communication interface is as shown below:



Meter communication interface (COM2) is illustrated as follows:

Pin	1	2	3	4	5	6	7	8
Definition	Blank	Blank	DI COM1	DI 1	Blank	B2	Blank	A2

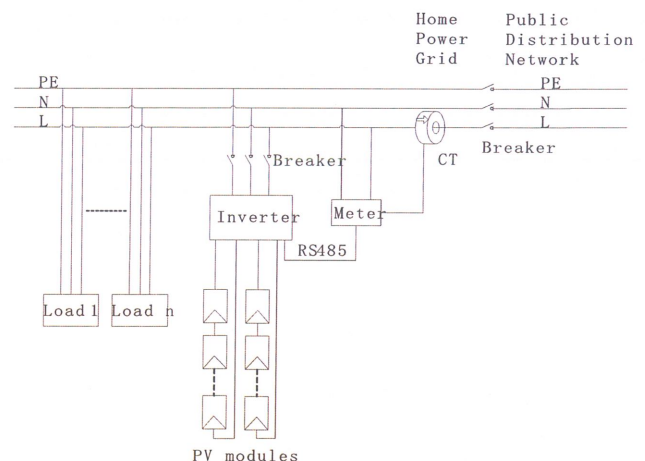
3 Connection of Anti-Backflow Meter

The inverter equipped with anti-backflow function can perform power regulation and prevent feeding energy into the grid. Before using the anti-backflow function, the user should read the instructions carefully and correctly connect the cables as shown in the figure. Connection error may lead to unpredictable consequences, contact the maintenance personnel in this case.

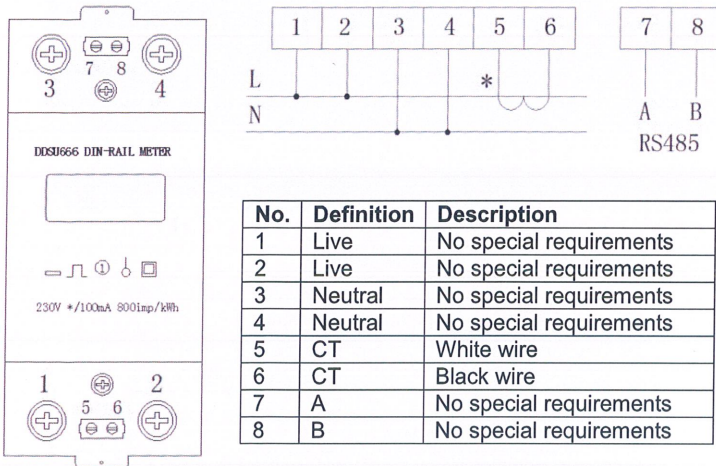
CAUTION

The anti-backflow meter and current transformer (CT) should be installed at the front end of the connection point between the inverter, all loads and the grid (that is, close to the public power grid). The direction of the current transformer (CT) is from the user side to the public power grid side.

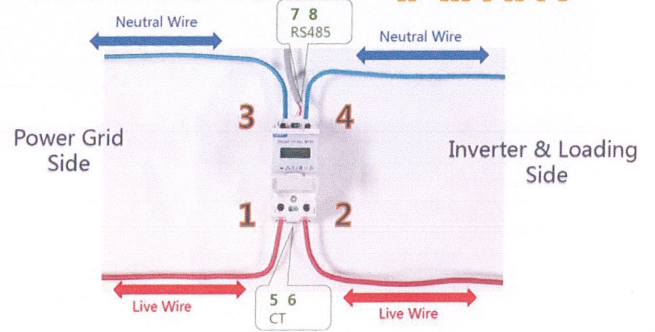
Meter and CT



Connection Diagram (with CT)

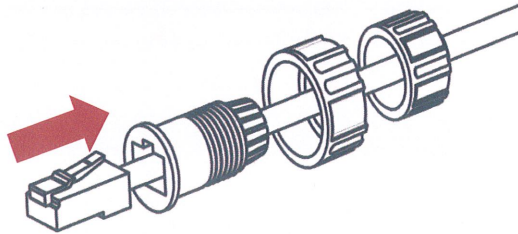


Connection Diagram (with CT)

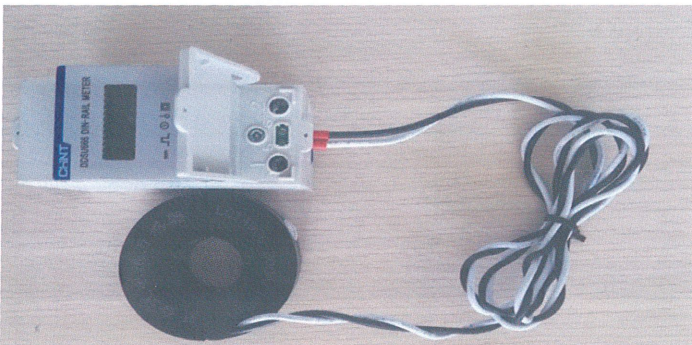


4 Installation

Step 1: Pass the network cable through the waterproof terminal, press the RJ45 crystal plug with a crimping tool, and insert the crystal plug into the housing of waterproof terminal (As shown in the figure below).

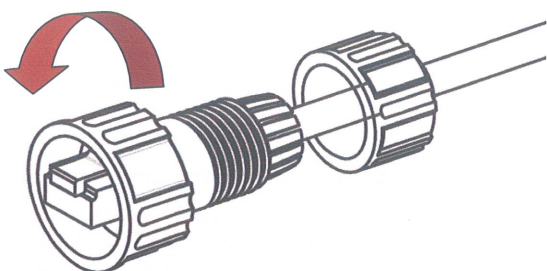


Step 3: Lead one of white cable and black cable out of the magnetic loop of the current transformer, connect the white cable and black cable to the terminal 5 and terminal 6 of the meter respectively. Refer to the diagram of Meter and CT for installation location of the magnetic loop.

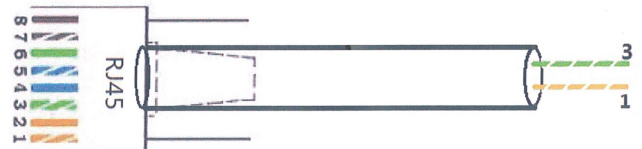


Step 4: Connect the L cable to the terminal 1 and terminal 2 of the meter, and connect the N cable to the terminal 3 and terminal 4 of the meter. Refer to Connection Diagram (with CT) for the connection mode.

Step 5: Insert the RJ45 crystal plug into the RJ45 port at the bottom of the inverter chassis (COM2) then tighten the screw nut (As shown in the figure below).



Step 2: Find the number 1 and number 3 cables at the end of no RJ45 crystal plug and connect them to the terminal 7 and terminal 8 of the meter respectively (As shown in the figure below).



Line sequence of RJ45	
1	Orange with white
2	Orange
3	Green with white
4	Blue
5	Blue with white
6	Green
7	Brown with white
8	Brown

Step 6: Tighten the sealing nut at the tail of the waterproof terminal (As shown in the figure below).

