Power Sensor Installation Guide

2024/02/28

SIGENERGY

Content

Section 1 – Production Introduction

Section 2 – Meter installation

Section 3 – Common questions

01

Product Introduction

Types of Sigen meter

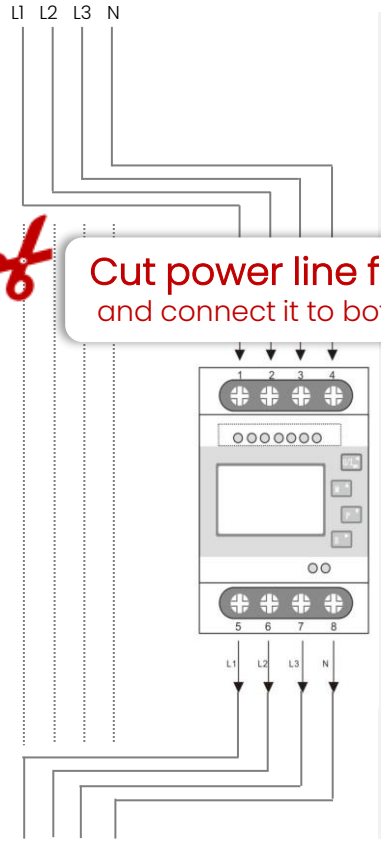
Sigen Power Sensor



	Sigen Sensor – Single Phase		Sigen Sensor – Three phase			
	SP-DH	SP-CT120-DH	TP-DH	TP-CT120-DH	TP-CT300-DH	SP-CT600-DH
Number of CT 		1	-	3	3	3
Inner diameter of CT	-	16mm	-	16mm	24mm	36mm
Cable length	-	1m	-	1m	1m	1m
Max operating **current** of CT	-	120A	-	120A	300A	600A

Difference between built-in and external CT

Sigen Sensor TP-DH



Cut power line first
and connect it to both ends of the sensor

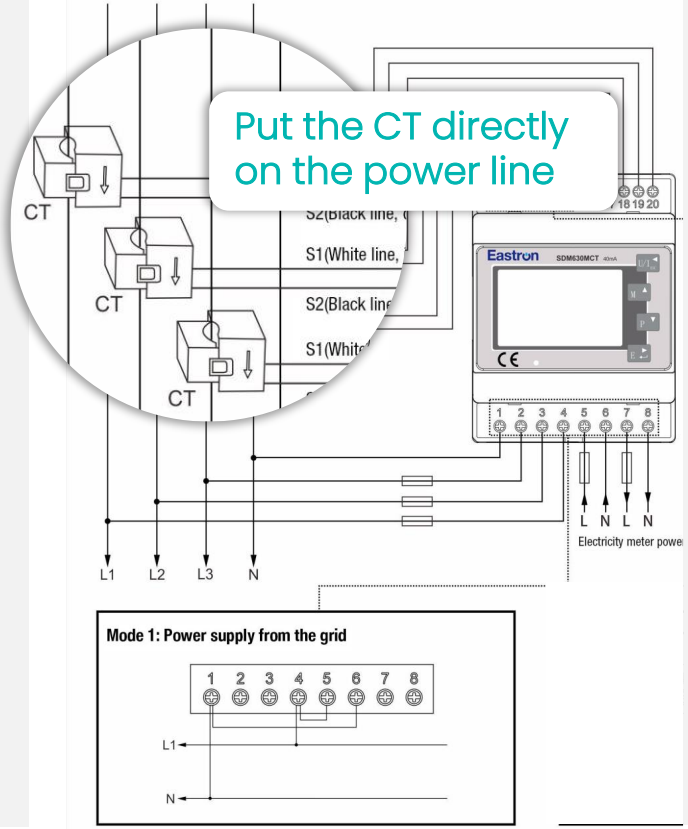
Lower max. operating current
because excessive current can lead to overheating

Fewer wires, but **requires cutting power line** during wiring

Limited application scenarios

- Low-power loads
- Uncomplicated wiring of existing systems

Sigen Sensor TP-CT120-DH



Recommend

Higher max operating current

Simplified actual wiring
as there is no need to alter existing power cables

Flexible application scenarios

- Allow access to more loads
- Installation of Sigen products on existing power systems

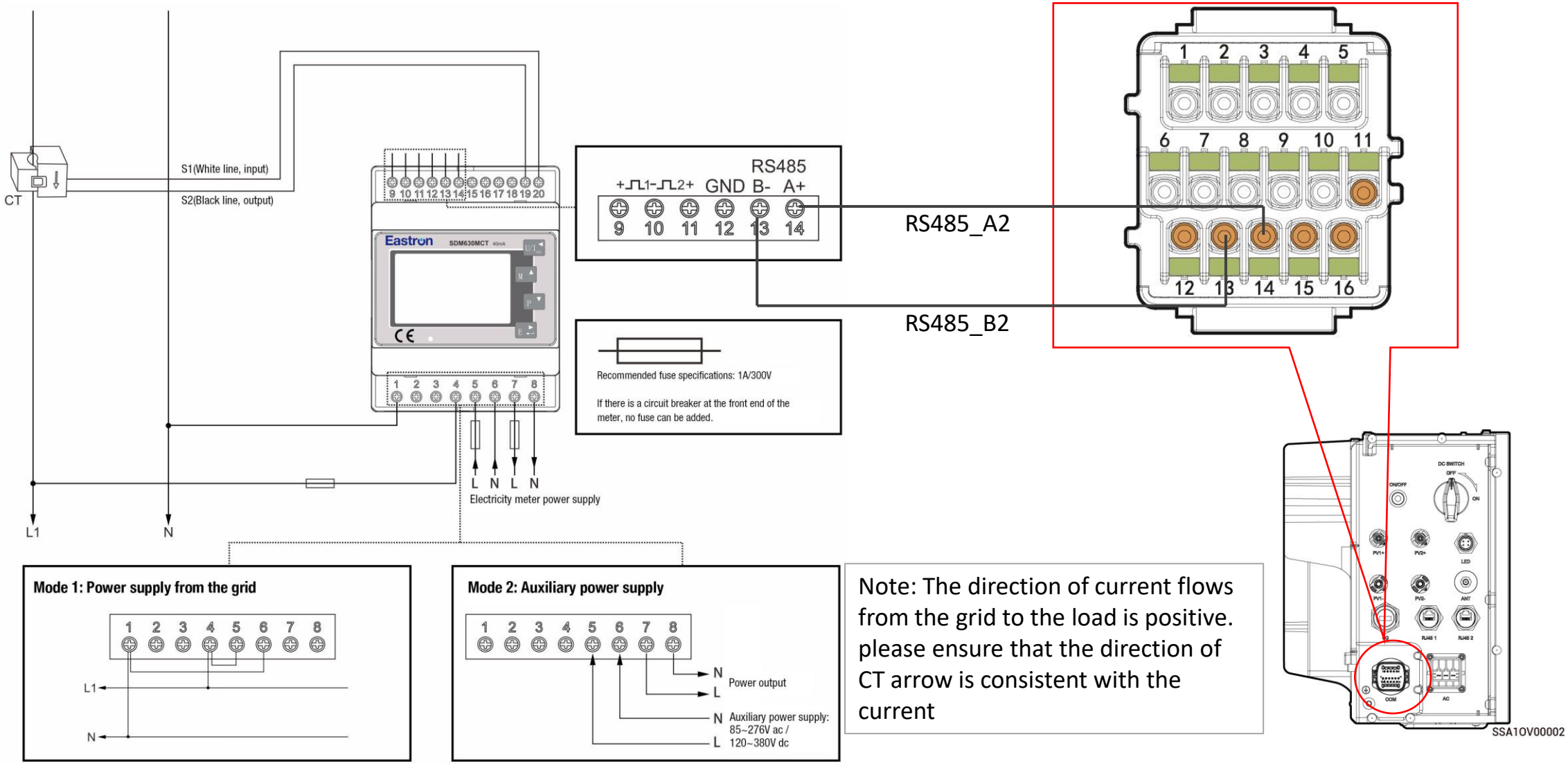
*Partial wiring diagram

*Note: The direction of current flows from the grid to the load is positive.

02

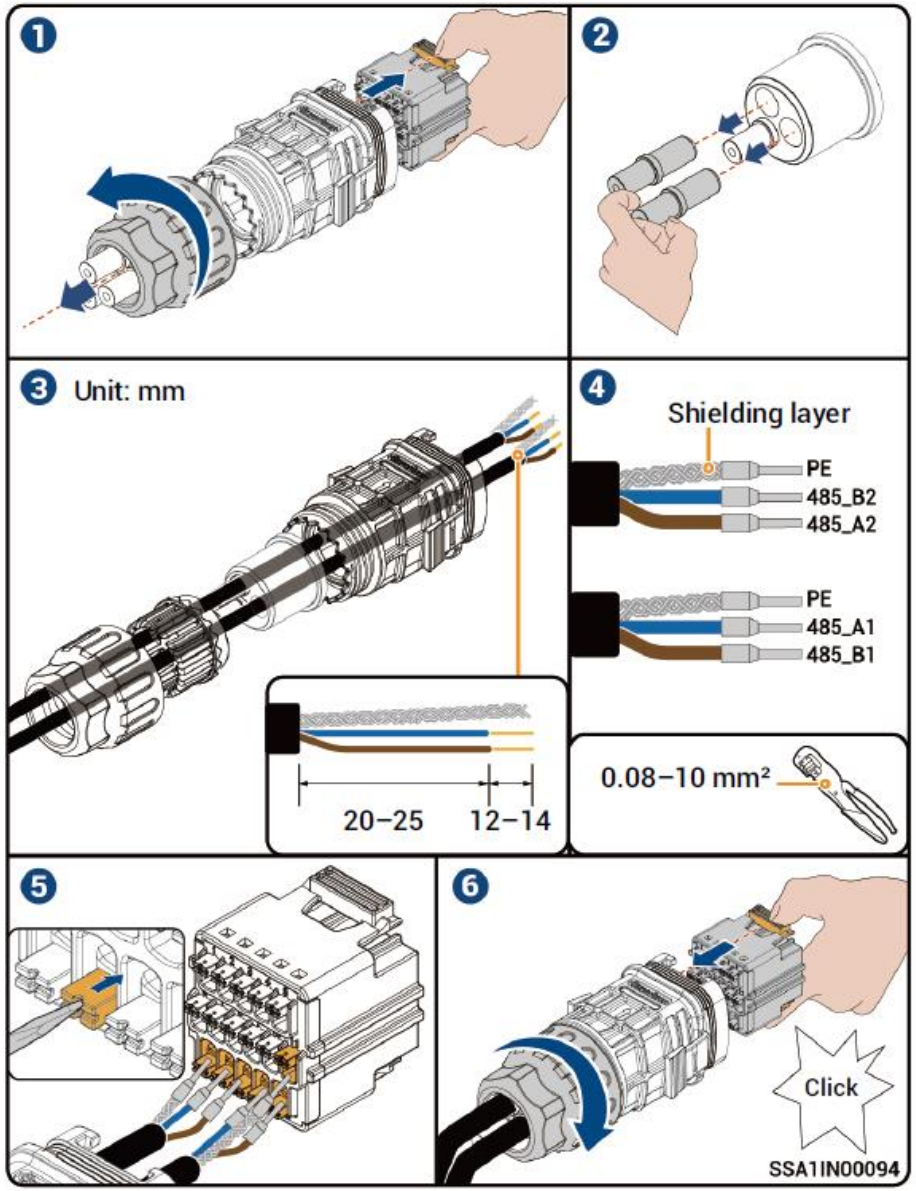
Meter installation

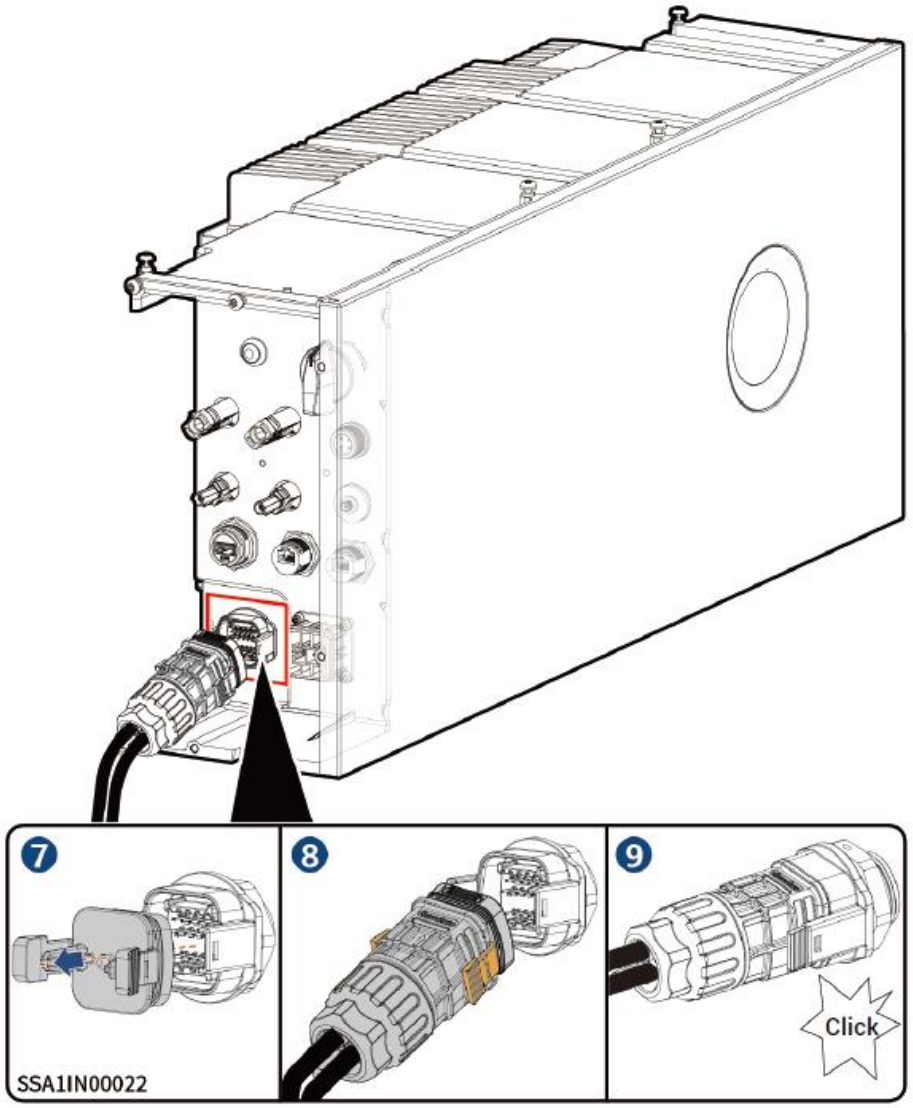
Single phase two wire 1CT



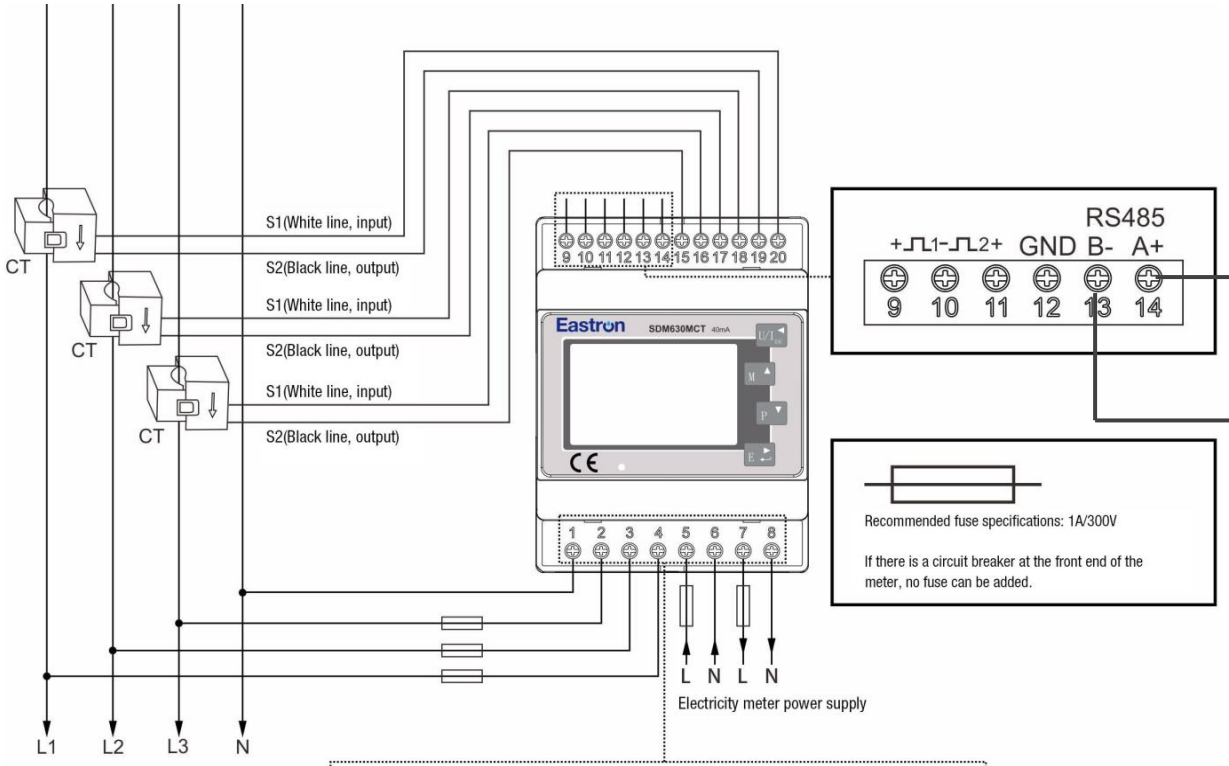
Note: The direction of current flows from the grid to the load is positive. please ensure that the direction of CT arrow is consistent with the current

Connection on the Inverter Side



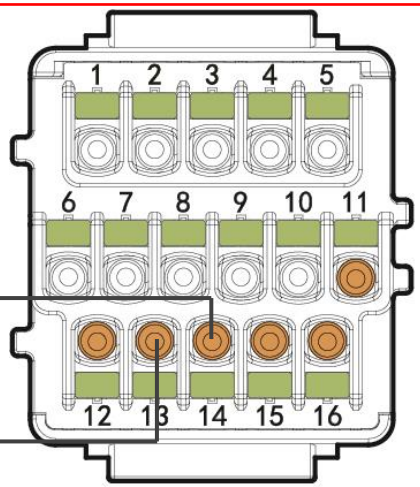


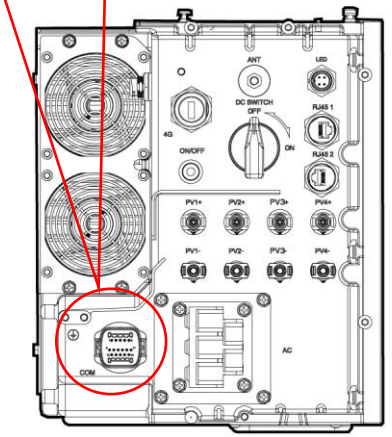
Three phase four wire 3CT

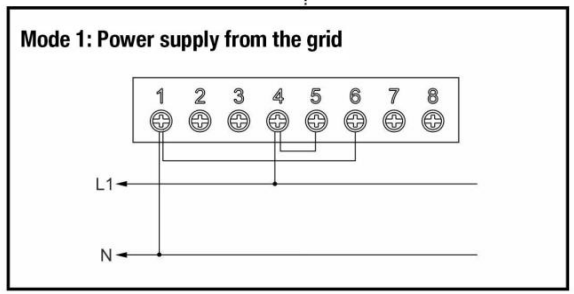


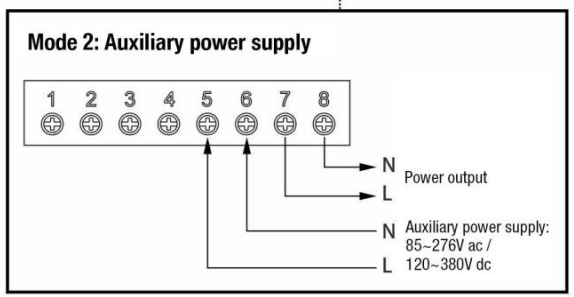
RS485_A2

RS485_B2



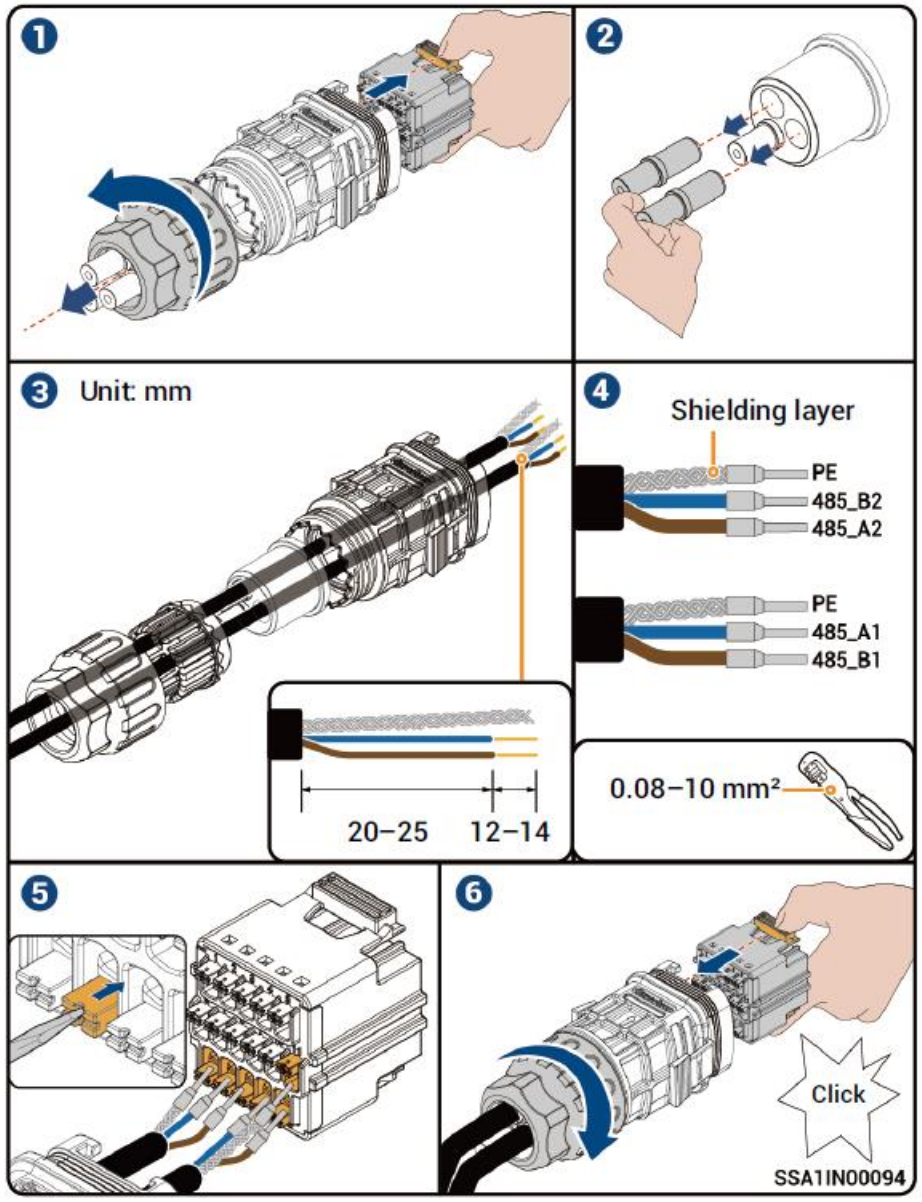


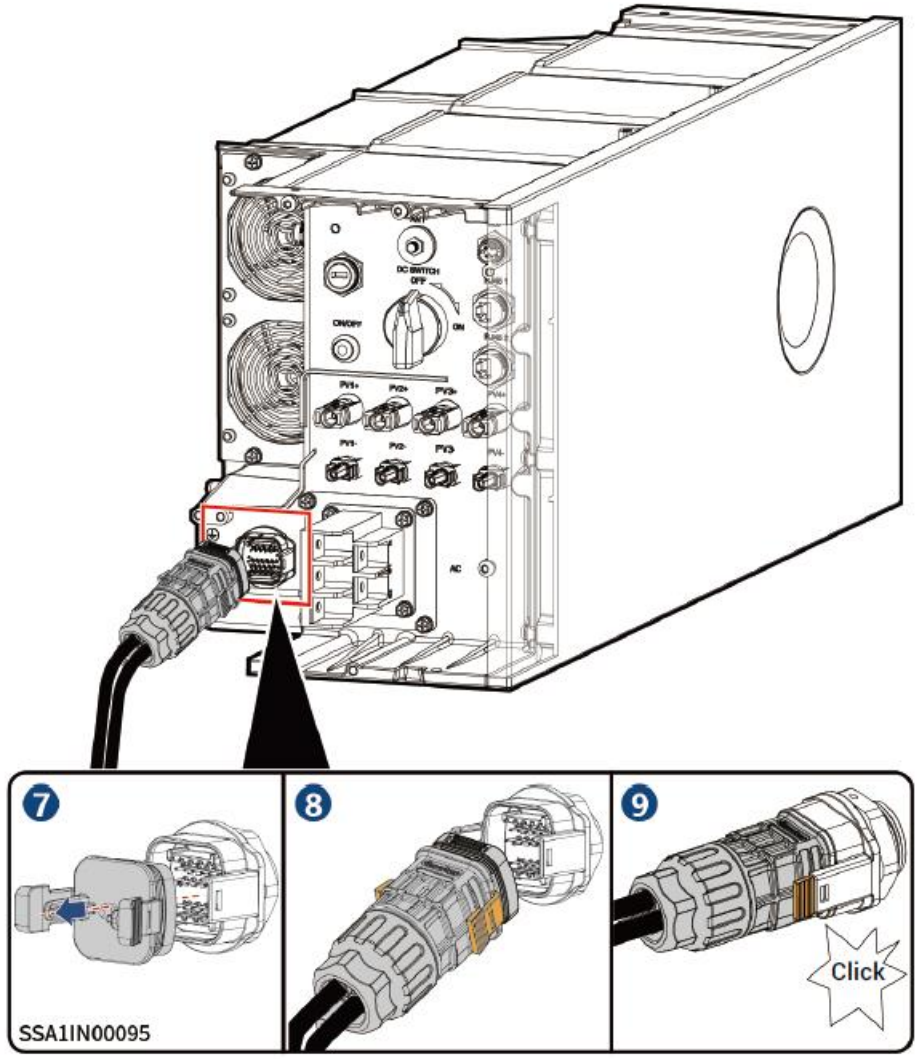




Note: The direction of current flows from the grid to the load is positive. please ensure that the direction of CT arrow is consistent with the current

Connection on the Inverter Side





03

Common questions

Common questions

1. Q: What is the difference between 485-1 and 485-2 on the COM terminal of the inverter ?

A: 485-2 is used to connect the control meter installed at the grid connection point(pin 13 and pin 14)
485-1 is used to connect other 485 devices, including but not limited to third-party meters, heat pumps, air-conditioning. etc(pin 15 and pin 16)

2. Q: What is the symptom of incorrect meter connection?

A: The data displayed in the app's energy flow chart may be incorrect. Please check if the CT is reversed and if the CT is installed at the grid connection point.

Thank you.

畅享绿色能源

Enjoy Green Energy

SIGENERGY

© 2023 Shanghai SIGEN New Energy Technology Co., Ltd. All Rights Reserved

Disclaimer: The information on this file is provided on an "as is" basis. To the fullest extent permitted by law, Shanghai SIGEN New Energy Technology Co., Ltd excludes all representations and warranties relating to this file and its contents or which is or may be provided by any affiliates or any other third party, including in relation to any inaccuracies or omissions in this file.