

Energy Meter

SDM630MCT

User Manual

Notes and Safety

Cut off all power of inverter before installation! . Wait for 5 minutes after power off.

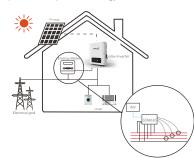


Danger of high voltage! Danger to life due to high voltage of this machine!

1 Basic features

SDM630MCT Meter configured with 3 matched CTs can achieve energy management together with solax three phase inverter(CTs don't in the package, need purchase

It applies to 200A system on below, measure the import, export and total power and energy.



2 Terminals and Dimension





Via transformer

1-4	measured voltage
5-6	power supply
7-12	NULL
13-14	RS485 port
15-20	СТ



Type

Only authorized personnel is allowed to set the connection.

3 Performance and Specification

Phase to Neutral Voltage	100 to 289V
Voltage Between Phases	173 to 500V
Current	5(6)A

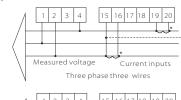
① Mounting

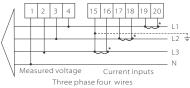
SDM630MCT meter is designed for indoor installation. You can fix it on the wall.

cable size: ≥10AWG or ≤6mm²



2 Wiring diagram





RS485

AUX supply

RS485

3 Wiring Connection

Step 1: RS485 terminal connection

Insert the wire into the 13,14 ports of Meter, and insert the other side of the wire into the green terminal block which is in the hybrid package, then insert the block into the inverter.





Step 3: Voltage wire connection

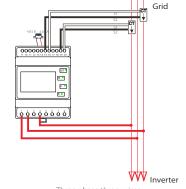
Step 2: Current wire connection

Make wire, insert the wire into the 1-4 ports of Meter, and insert the other side of the wire into the grid following.

Insert the wire (S1andS2) of the CT to the 15-20 ports of

Meter, then connect the buckle of CT to the grid .

Please refer to the marks on CT carefully.



Three phase three wires

Please read this user manual carefully before use.

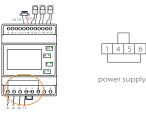
01

05

Grid ₩₩ Inverter

Step 4: Voltage wire connection

Make wire, insert the wire into the 5-6 ports of Meterand insert the other side of the wire into the 1.4 ports.



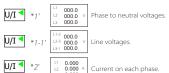
To set CT ratio, use M ▲ and P ▼ buttons and select the CT option to SEE screen. Long press **E** ▶ to enter the CT secondary current selection routine(5A/1A)using M A P V then long press **E** ▶ to confirm. Press **P** ▼ to screen, The range is from 0001 to 9999, then long press confirm. For example, if using a 200/5A current transformer, you will enter 0040, as you need to divide the primary by the secondary to get the ratio (CT rate).

Please note for the MID approved version device, you will only have one opportunity to set the ratio.

Description of LCD Display

1 Voltage and Current

U/I









2 Frequency and Power Factor and Demand





M ▲ *4'	0.000 κw	Maximum power demand.

P 🔻 0.000 2 0.000 2 0.000 Instantaneous active power in KW. 0.000 2 0.000 KW 2 0.000 Instantaneous reactive power in KVAr. 0.000 Instantaneous 2 0.000 volt-amps in KVA. 0.000 0.000 KWAr 0.000 KVAr 0.000 KVA Total kW.kVAr.kVA. 4 Energy E 🕨 Total active energy 0000 031.4 in KWh E 🕨 Total reactive energy 0000 K in KV/arh 00.00 E 🕨 Import active energy 0000 0.314 E ▶ *4' Export active energy 0000 Import reactive energy E 🕨 0000 K in KWArh 0.000 E ▶ *6′ Export reactive energy 0000 K in KWArh. 0.000 ⊬SE KW Σ 0000 03L4 E ▶ *7' Total active energy in Kwh. (Initializable)

3 Power

Warranty Regulation Terms and conditions

SolaX grants a warranty of 12 months as standard, Starting from the date of the purchase invoice marked. SolaX will only perform warranty service when the faulty unit is returned to SolaX together with a copy of invoice and warranty card which were issued by the dealer and manufacturer to the users. In addition, the type label of the unit must be fully legible. If these requirements are notfulfille SolaX reserves the right for all warranty terms and conditions.

Exclusion of liability

Warranty claims are excluded for direct or indirect damage 1: Use of unit in ways not intended, improper installation and installation thatdoes not comply with standards, improper

- epair attempt. 2: Without warranty card and serial number.
- 3: Operating the units with defective protective equipment.

operation and unauthorized modification to the units or

- 4: Influence of oeign objects and force majeure.
- 5: Inadequate ventilation.
- 6: Violate relevant safety regulations.

To register your SolaX product, please mail this warranty card to: ADD. No.288 shizhu Road, Tonglu Economic Zone,

Tel. +86 571 56260011 FAX +86 571 56075753 EMAIL service@solaxpower.com WEB www.solaxpower.com

Online warranty registration is available at http://www.solaxpower.com/en/warranty-registration/

Warranty Registration Form

Name Country				
Phone Number Zip Code				
Email				
Address				
Product Serial Number				
Date of Commissioning				
Installation Company Name				

Date of Delivery	
Signature	

www.solaxpower.com

Three phase four wires

06

00.00 00.00

E 🕨

Total reactive energy

in Kvarh. (Initializable)