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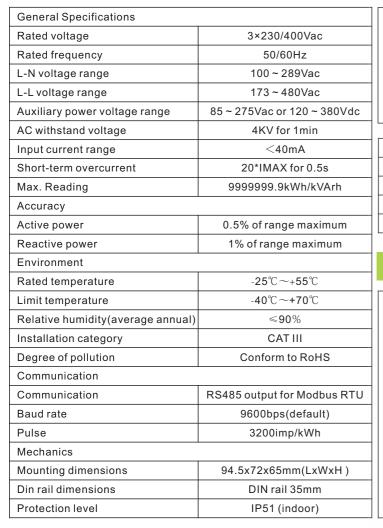
Overview

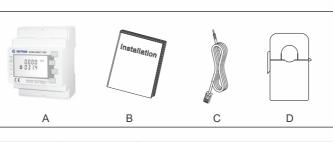
SDM630MCT-MA Three-phase Smart Meter Quick Guide

SDM630MCT-MA is a multi-function rail meter, it can accurately measure and display various power parameters in 1P2W/3P3W/3P4W: voltage, current, power, frequency, active power, reactive power, forward power, reverse power, total harmonics, etc. The meter is suitable for real-time power monitoring system, with multi-function, multi-purpose, high stability and long life characteristics. The meter is connected with an external current transformer and is suitable for various high and low voltage power grids. The meter has RS485 communication interface, supports the highest communication rate of 38400bps, can realize remote communication.

2. Technical Parameters

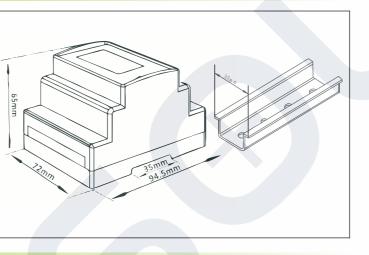
3.	Unpacking	



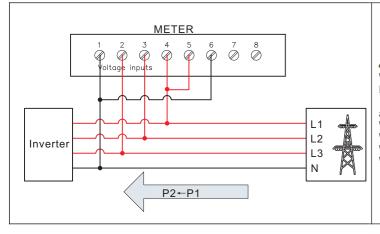


Item	Quantity	Description	
А	1	Three-phase meter	
В	1	User Manual	
С	1	RS485 cable (standard length 15m)	
D	3	Current Transformer	

4. Dimension(Unit:mm)



5. Installation

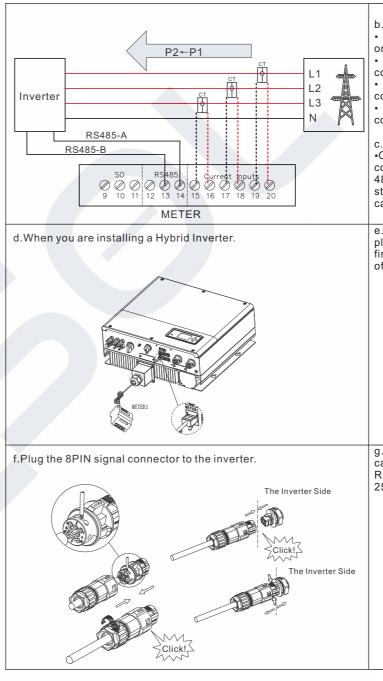


A Note:

We describe Growatt Grid-tied inverter as "PV inverter" and Growatt Hybrid/AC Coupled Inverter as "Hybrid Inverter" as below.

a. Voltage sampling and power supply wiring

Wiring of the L1 voltage sampling line: corresponding to meter Pin 4 Wiring of the L2 voltage sampling line: corresponding to meter Pin 3 Wiring of the L3 voltage sampling line: corresponding to meter Pin 2 Wiring of the N voltage sampling line: corresponding to meter Pin 1



6. Button Definition And Display

			', "↑ (Alt)MD/PH/HZ", "↓ (Shift)P", "ENTER(\rightarrow)E". There are and short press(Pressing time is less than one second).
NO.	Button	Features	Viewable content(short press)
1	U/I sc	Short press: display voltage and current, ← Long press: ESC	Phase voltage, Line voltage, Phase current, Neutral current, Voltage harmonics, Current harmonics
2	M	Short press: display power factor and frequency, ↑ Long press: Alt	Phase(Total) frequency, Total power factor, Phase(Total) maximum current demand
3	P	Short press: display power, ↓ Long press: Shift	Phase(Total) active power, Phase(Total) reactive power, Phase(Total) apparent power
4	E 🛁	Short press: display electric energy, → Long press: Enter	Total active electric energy, Total reactive electric energy, Forward active electric energy, Reverse active electric energy, Forward reactive electric energy, Reverse reactive electric energy

b. Current transformer wiring

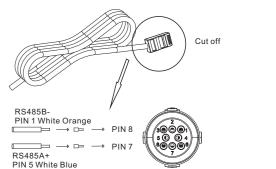
• The wiring should be executed according to the picture as shown on left. On the right side is the grid, current flows from P1 to P2. Wiring of the L1 CT: S1 corresponding to meter Pin 20, S2

corresponding to meter Pin 19 Wiring of the L2 CT: S1 corresponding to meter Pin 18, S2 corresponding to meter Pin 17

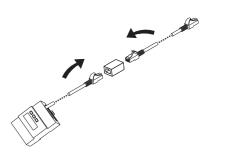
 Wiring of the L3 CT: S1 corresponding to meter Pin 16, S2 corresponding to meter Pin 15

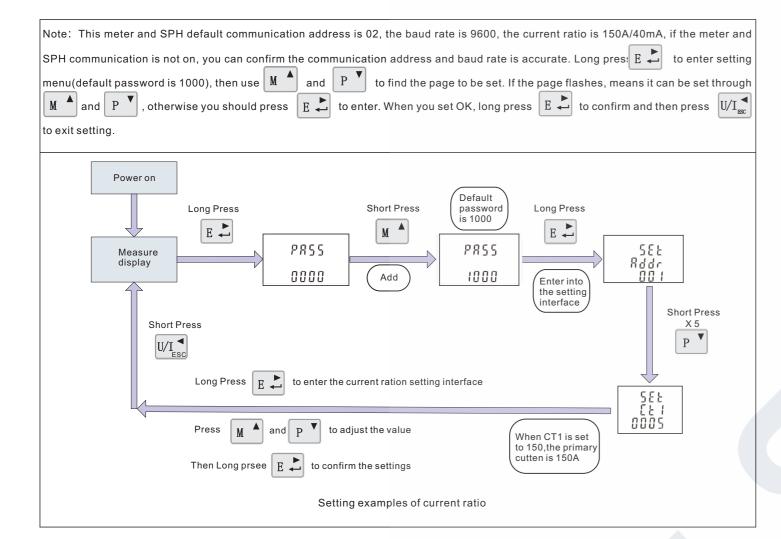
c. RS485 wiring •Connect the Rs485 A to Pin 14 and Rs485 B to Pin 13 (There are corresponding line marks on the network cable in the attachment: 485A, 485B; If you use your own network cable, please choose 568B standard network cable, white orange cable is 485B and white blue cable is 485A)

e.When you are installing a PV Inverter, first cut off the RJ45 modular plug, then find two cables and crimp the accessory terminals, finally, put them into the correspond interface of the inverter's 8 Pin signal connector as below.



g.The standard RS485 cable length is 15m.If need longer RS485 cable, please use an ethernet coupler to extend and make sure RS485 cable less than 100m(the recommended length is less than 25m).

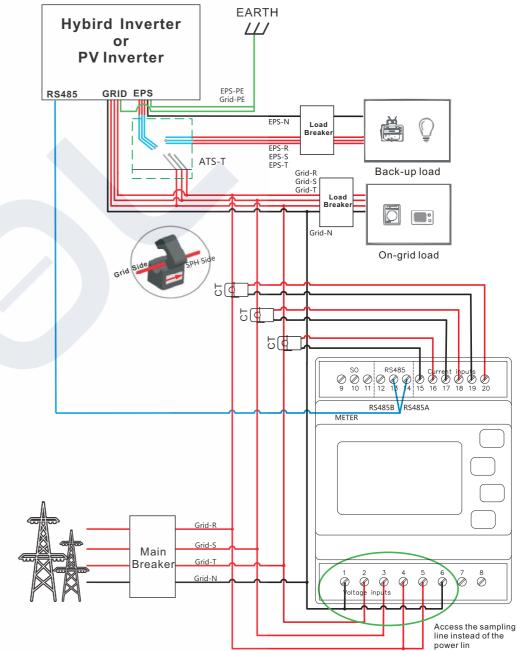




7. Trouble Shooting

Fault phenomenon	Reason analysis	Solution	
Big deviation between electric energy measurement and actual value.	 Wiring error, voltage and current corresponding phase sequence is wrong. If the output line of the current transformers is reversed. The transformer ratio is not set, the meter displays the secondary data. 	 Refer to the wiring diagram to check the wiring. If the transformer ratio setting is wrong, please set the voltage ratio and current ratio correctly. If the issue still exists, please contact your local supplier. 	
RS485 communication error (Inverter error 401)	 RS485 cable is open circuit, short circuit or resersely. The address, baud rate and data parity of the meter do not match the SPH. 	 If there is a problem with the communication cable, please replace the communication cable. Set the correct address, baud rate, and data bit check digit of the meter by the button. If the issue still exists, please contact your local supplier. 	

The complete system wiring diagram is as follows, if the meter is not operating normally, you can refer to it to check the wiring.



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