GROWATT

TPM-CT-E-EU(SDM630MCT V2) Three-phase Smart Meter Quick Guide

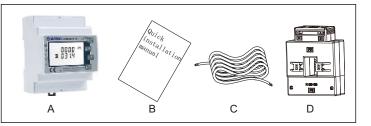
1. Overview

SDM630MCT V2 is a multi-functional din-rail meter designed for accurate measurement and display of parameters in 3P3W/3P4W power grid systems, such as voltage, current, power, frequency, active power, reactive power, positive energy, reverse energy, total harmonics, etc. It is an ideal choice for real-time power monitoring, featuring a wide range of functions and applications with high stability over extended service life. The meter works with an external current transformer and can be applied in both high and low voltage power grid. It comes with an RS485 communication interface, which supports a maximum baud rate of 38400 bps and enables remote communication.

2. Technical Parameters

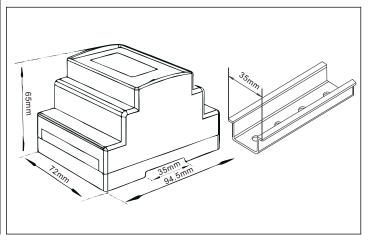
General Specifications 3×230/400Vac Rated voltage 50/60Hz Rated frequency 100~276Vac L-N voltage range 173~480Vac L-L voltage range 85 ~ 275Vac or 120 ~ 380Vdc Auxiliary power voltage range 4KV for 1min AC withstand voltage 1A or 5A Input current range Short-term overcurrent 20*IMAX for 0.5s 9999999.9kWh/kVArh Max. Reading Accuracy Active power 0.5% of range maximum Reactive power 0.5% of range maximum Environment Regulated working temperature -25℃~+55℃ range Limited working temperature range -40°C∼+70°C Relative humidity annual average ≤90% CAT III Installation category Degree of pollution **RoHS** compliant Communication Communication RS485 output for Modbus RTU Baud rate 9600bps(default) Pulse 3200imp/kWh Mechanics Outline dimensions 94.5x72x65mm(LxWxH) Din rail dimensions DIN rail 35mm Protection level IP51 (indoor)

3. Unpacking

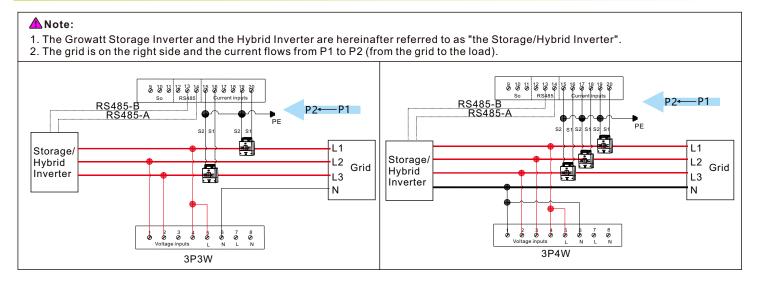


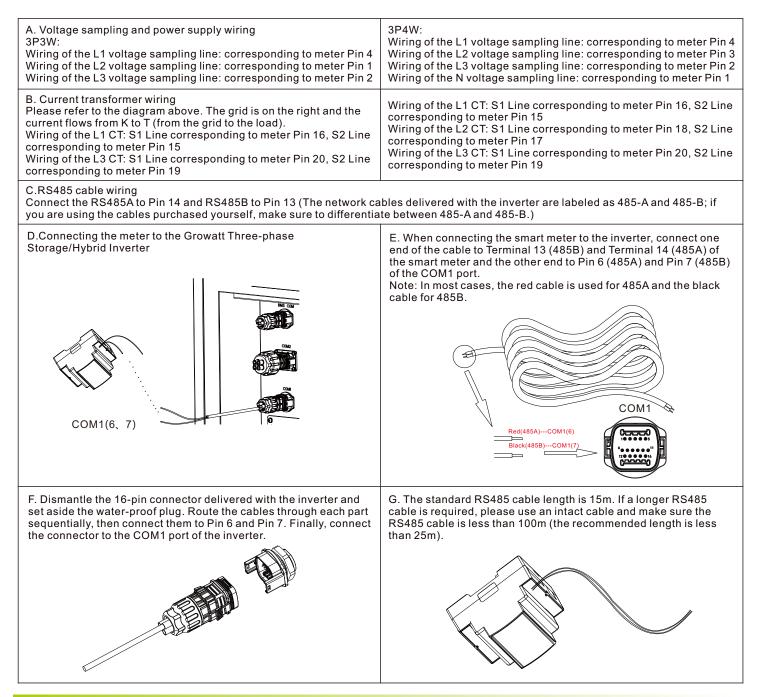
Item	Quantity	Description
А	1	Three-phase meter
В	1	Quick Installation Guide
С	1	RS485 cable (standard length: 15m)
D	3	Current Transformer

4. Dimensions (Unit: mm)



5. Installation

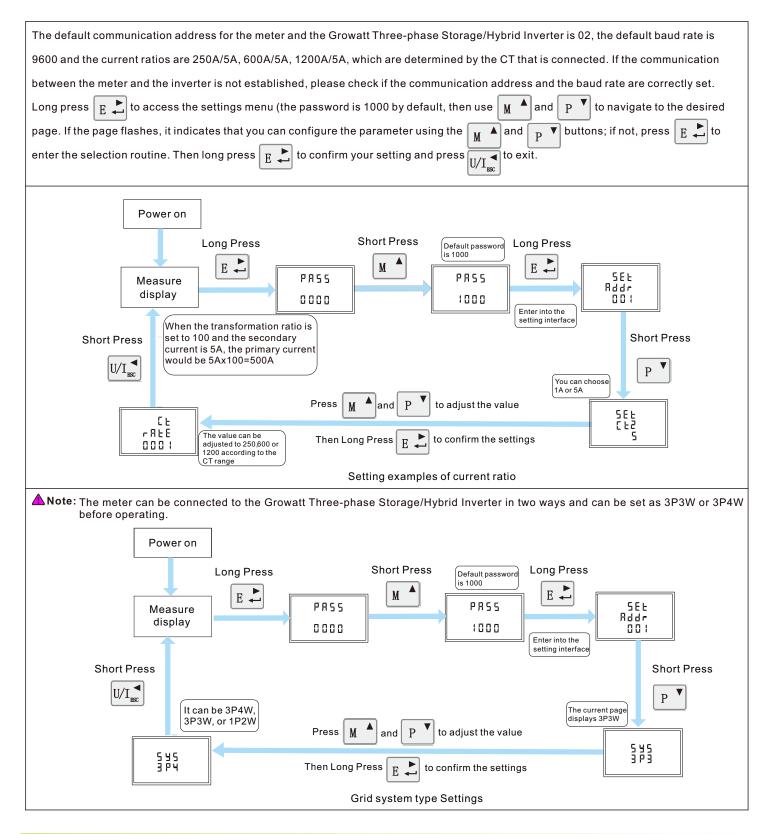




6. Button Description and Display

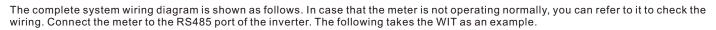
There are four touch buttons on the panel, arranged from top to bottom as follows: "ESC(\leftarrow)V/A", " \uparrow (Alt)MD/PH/HZ", " \downarrow (Shift)P", "ENTER(\rightarrow)E". These buttons can be operated in two ways: long press (pressing for more than two seconds) and short press (pressing for less than one second).

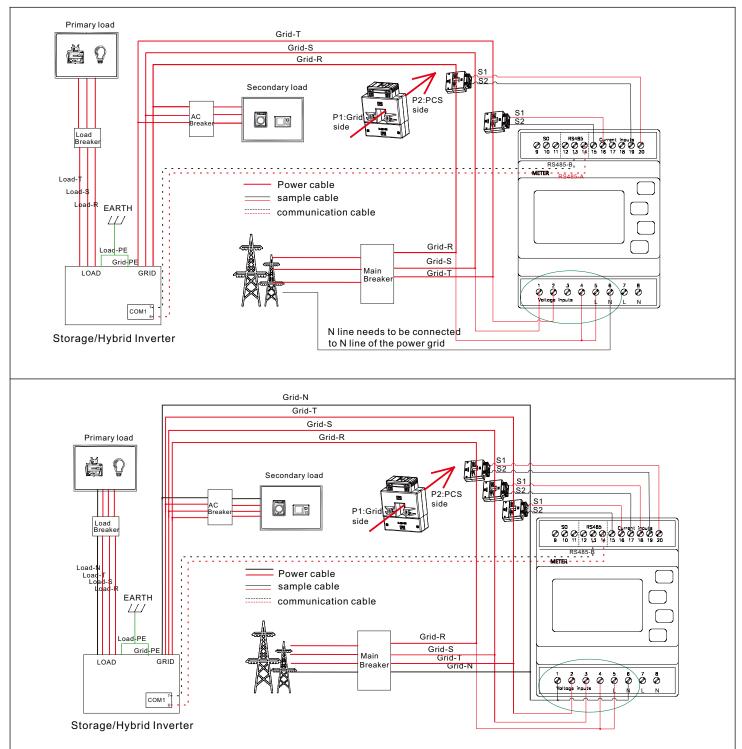
NO.	Button	Features	Viewable content(short press)
1		Short press: display voltage and current, ← Long press: ESC	Phase voltage, Line voltage, Phase current, Neutral current, Voltage harmonics, Current harmonics
2	M	Short press: display power factor and frequency, ↑ Long press: Alt	Phase(Total) frequency, 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, Positive active electric energy, Reverse active electric energy, Positive reactive electric energy, Reverse reactive electric energy



7. Troubleshooting

Fault phenomenon	Reason analysis	Solution
Metering inaccuracy	 Wiring error, check whether the corresponding phase sequence of voltage and current is correct. Check if the output line of the current transformer is reversely connected. The transformer ratio is not set, and 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)	 The RS485 communication cable is disconnected, short circuit or reversely connected. The address, baud rate, data bit and parity bit of the meter are not in accordance with the inverter . 	 If there is a problem with the communication cable, please replace the communication cable. Set the address, baud rate, data bit and parity bit of the meter through buttons. If the issue still exists, please contact your local supplier.





8. Service and contact

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