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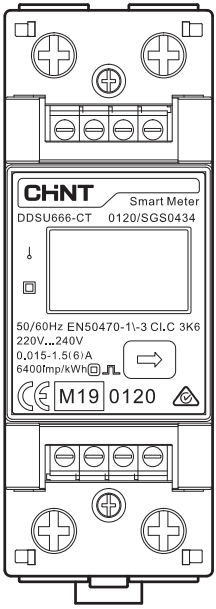
PSI-X-1PMETER-ZI-TA

METER FOR INVERTER MONOPHASE X1

User Manual



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It should be noted that the technical data, information and representations contained in this document are purely indicative. Peimar reserves the right to modify the data, drawings and information contained in this document at any time and without prior notice.

Notes and Safety

Cut off all power of inverter before installation!

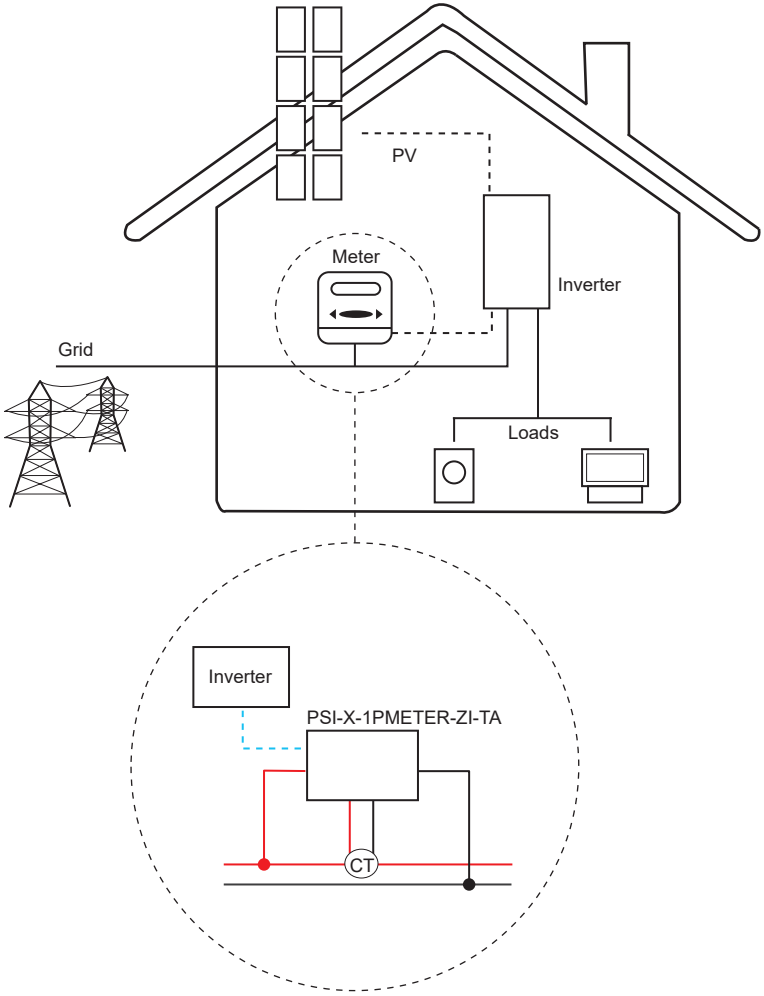
Wait for 5 minutes after power off.

Danger of high voltage!

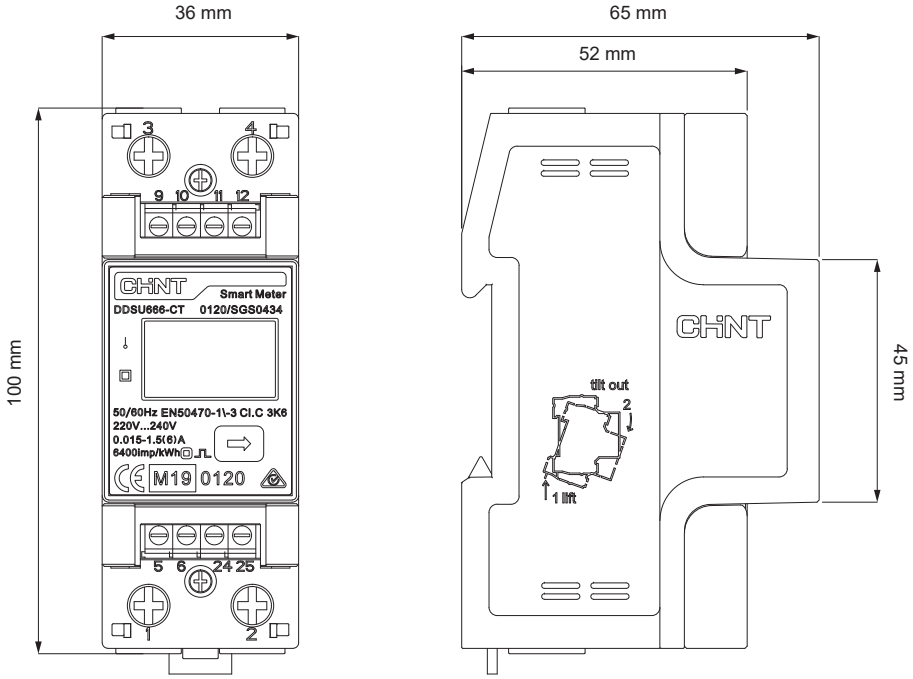
Danger to life due to high voltage of this machine!

Introduction

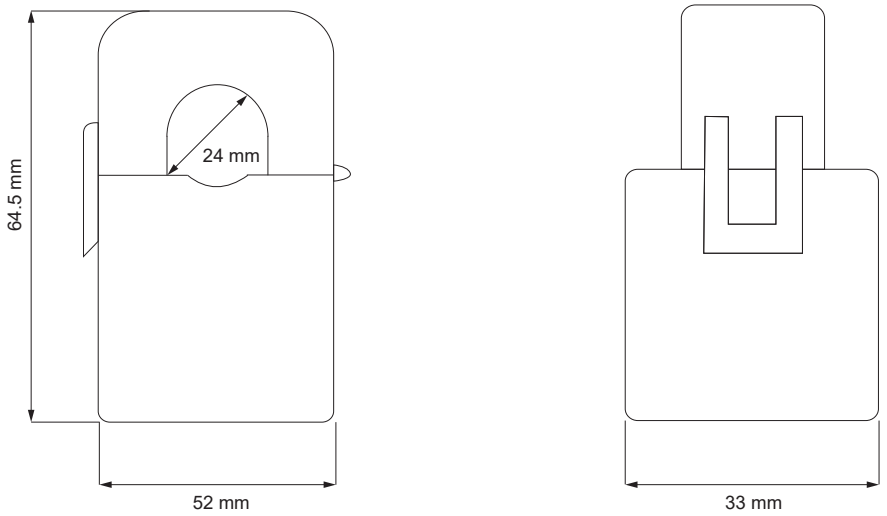
PSI-X-1PMETER-ZI-TA can achieve energy management together with Peimar single phase inverter. It applies to 200 A (depend on the choice of CT) system on below, measure the import, export and total power and energy.



Terminals and Dimension



1, 2	Single phase input port
9, 10	CT input port
24, 25	RS485 port



PLEASE NOTE

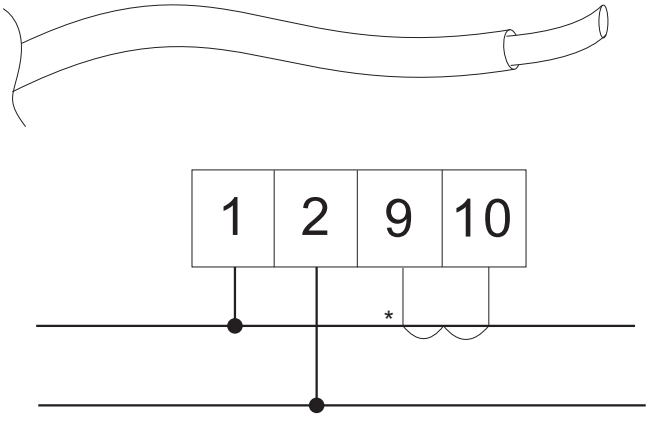
Only authorized personnel is allowed to set the connection.

Performance and Specification

Model	Frequency	Voltage	Current	Type
PSI-X-1PMETER-ZI-TA	60 Hz	230 V	0 - 200 A	Via transformer

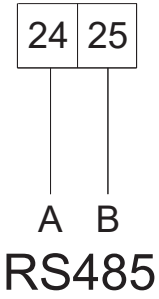
Wiring diagram

Model	
CT cable	15 ~ 23 AWG or 0.25 ~ 1.5 mm^2
AC power cable	≥ 5 AWG or ≤ 16 mm^2



Mutual inductance access to the instrument

Communication cable size: 17 ~ 23 AWG or 0.25 ~ 1 mm^2



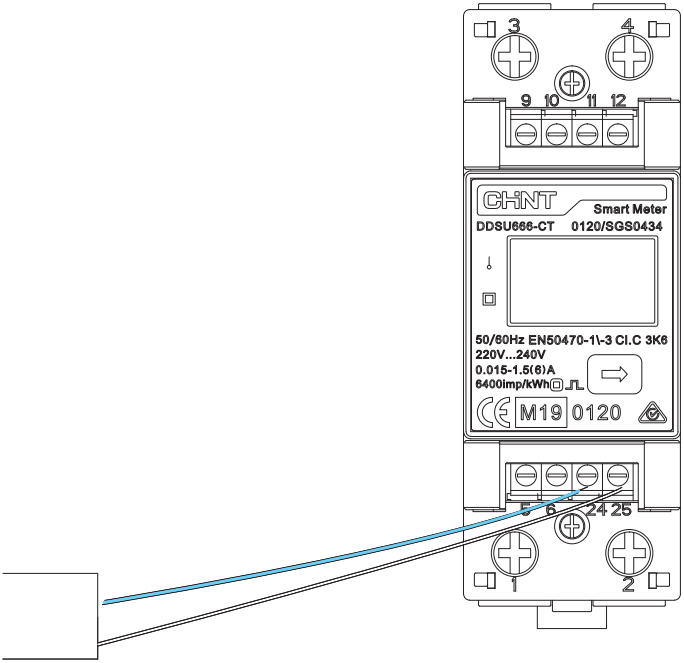
Wiring Connection

Step 1: RS485 terminal connection

1) Prepare a communication cable.
2) Trip the insulation from the communication cable.
3) Connect the meter communication cable and inverter with reference to the inverter manual.
4) Connect the other end of the communication cable to the port 24 and 25 of meter. See the figure below for the connection.

PLEASE NOTE

Please note that the same color communication cable is used for the same communication port identifier between the inverter and the meter.

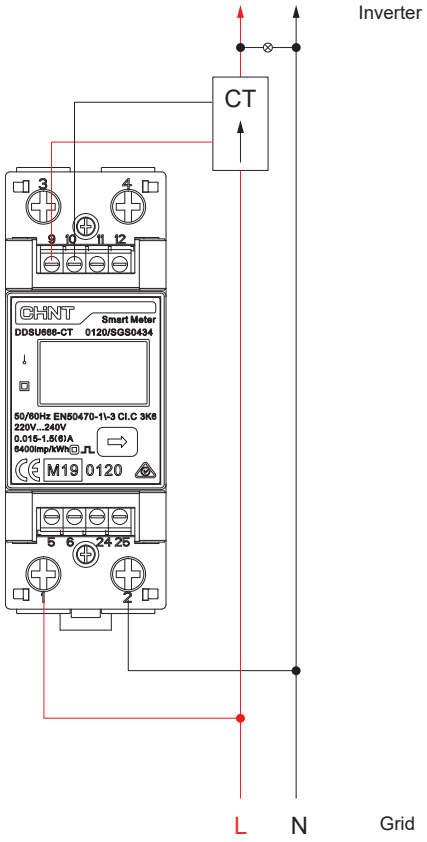


PLEASE NOTE

The color of the communication cable in the figure is for reference only. Please refer to the actual situation for the specific connection.

Step 2: Current wire connection

1) Connect the L wire with port 1 of the meter.
2) Connect the N wire with port 2 of the meter.
3) Connect the L wire with CT and insert the CT wires to ports 9 and 10 of the meter.



LCD description

	Meaning that the meter is showing the voltage, the unit is “V”
	Meaning that the meter is showing the current, the unit is “A”
	Meaning that the meter is showing the active power, the unit is “W”
	Meaning that the meter is showing the active energy, the unit is “kWh”
	Meaning that the meter is showing the 645 communication protocol
	Meaning that the current 645 address is 100000000011
	Meaning that the current 645 address is 100000000011
	Meaning that the baud rate is 2400

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