

6.3 Earth Connection (mandatory)

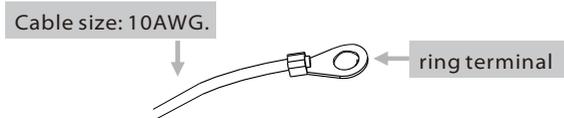
Users must additionally earth the inverter to the enclosure of a second earthing or equipotential bonding. This prevents electric shock if the original protective conductor fails.

➤ **Earth Connection Steps:**

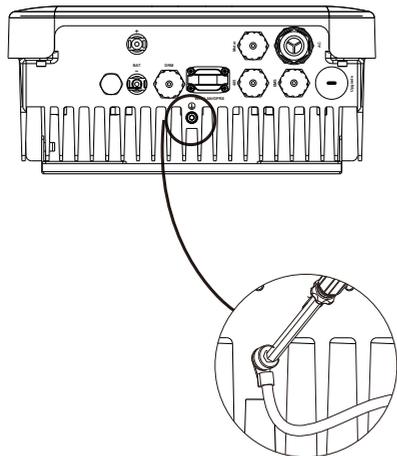
Step1. Strip the earthing cable insulation and insert the stripped cable into the ring terminal, then clamp it .

Step2. Place the ring terminal into the earthing rod and screw the earthing screw tightly.($\Phi 4$ hexagon wrench, torque: $1.5 \pm 0.2\text{Nm}$)

Step1



Step2



6.4 Meter/CT Connection

➤ **Meter connection**

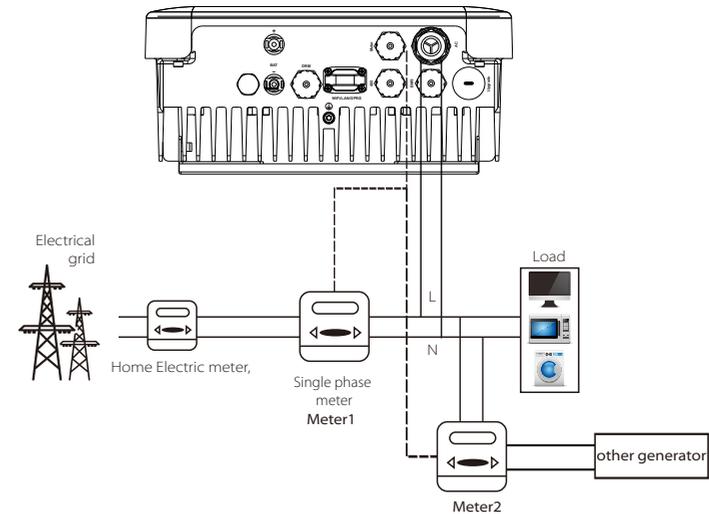
Meter is used for monitoring the power usage for entire house, at the meantime, inverter will also need the data from Meter to achieve the Export Control Function.

Note !



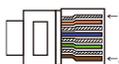
It is necessary to connect meter to inverter otherwise inverter will shutdown with a "Meter fault" alert.
The meter communication only works when meter is compatible with the inverter.

• **Meter connection diagram**



• **Meter PIN Definition**

Communication interface between inverter and meter is BMS port with a RJ45 connector.

	1	2	3	4	5	6	7	8
	X	X	X	X	X	GND	485A	485B

• **Meter Connection Steps:**

Please refer to Page 27.

➤ CT Connection Steps:

The current sensor measures the current on the phase wire that runs between the inverter and the grid. This enables the inverter to determine the Power requirements of the connected consumer. The current sensor is connected to the CT port on the inverter.



NOTE!

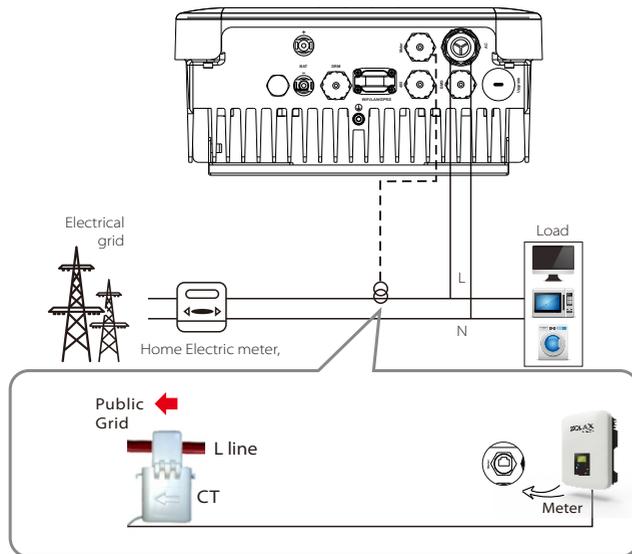
- Do not place the sensor on the N Wire or the earth wire.
- Do not place the sensor on the N and L wire simultaneously.
- Do not place the sensor on the L wire going to the consumer.
- Do not place the sensor with the arrow pointing to the generation meter.
- Do not place the sensor on the non-insulated wires.
- Do not use the wire over 25m.



NOTE!

- The sensor can be upgraded to meter.
- With a one phase meter provided by SolaX can monitoring the 24hr usage of electric.
- With a three phase meter provided by SolaX can implement three phase compensation.

• CT connection diagram



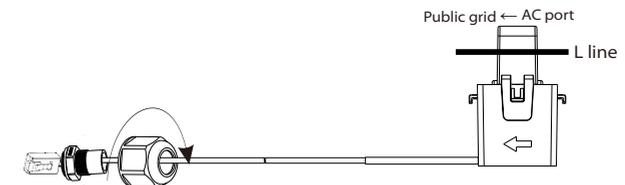
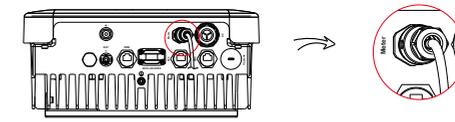
• CT PIN Definition

When connecting the RJ45 connector with the wire of the CT, please follow the below sequence :

	1	2	3	4	5	6	7	8
	CT+	X	X	CT-	X	X	X	X

• CT Connection Steps:

1. Insert the CT terminal on the current sensor into the Meter port on the inverter.



2. Place the current sensor around the phase wire L which the inverter is connected.
3. Place the current sensor around the phase wire L to measure the current going to or coming from the grid.
4. Make sure the current sensor is installed in the right direction: The arrow on the current sensor must point to the public grid.