



Quick Installation Guide

Wattsonic Gen3 Hybrid Inverter

4/5/6/8/10/12KW-25A-3P
10/12/15/20KW-40A-3P

Part 1 Installation **Part 2** Electrical Connection

1 Installation

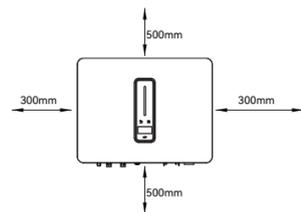
A Check Packing List

Inverter 1pcs	Wall-mounting bracket 1pcs MS screws 1pcs Expansion plug set 3pcs	On-grid connector set (Red) 1pcs	Back-up connector set (Black) 1pcs
PV Terminal 4.0K-25A-3P 2 pairs / 10K-40A-3P 4 pairs	Battery terminal 1 pairs	Meter with 3 CTs 1 pairs	COM2 connector set 1pcs
Monitoring device 1pcs	10m meter communication cable 1pcs 3m battery communication cable 1pcs	PE terminal 1pcs	User Manual 3pcs

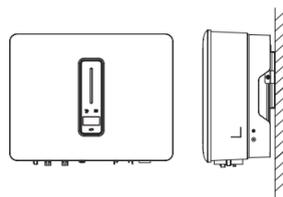
B Installation Location



C Installation Space

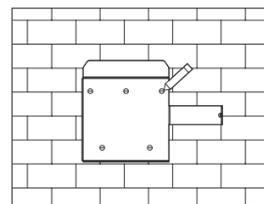


D Installation Angle

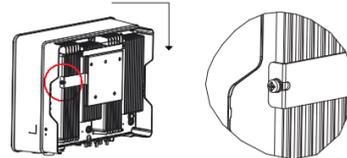


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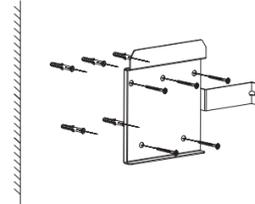
E Mark the position and drill holes



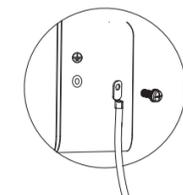
G Mounting inverter



F Fix wall bracket



H Grounding terminal connection



2 Electrical Connection

A Cable Requirements

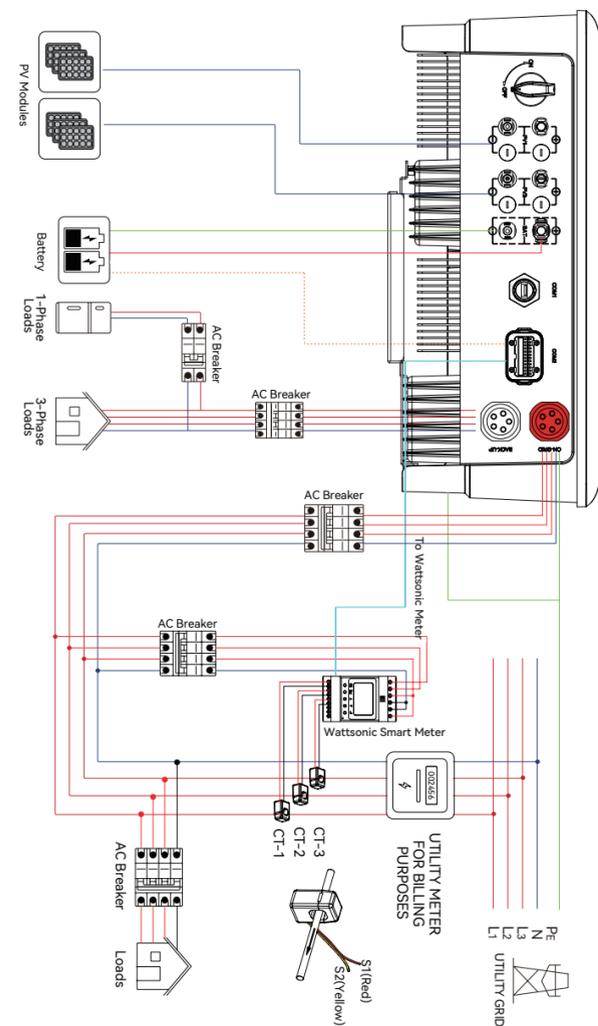
Cable types	Cable requirements	
	Outside diameter	Conductor core section
AC cable	13.0-18.0 mm	2.5-10.0 mm ²
PV cable	5.9-8.8 mm	2.5-4.0 mm ²
Battery power cable	5.0-8.0 mm	10 mm ²

AC Connector: Please distinguish the on-grid and back-up connector, On-grid connector is red and Back-up connector is Black.

Battery power cable: If the conductor core of the battery cable is too small, which may cause poor contact between the terminal and the cable, please use the cable specified in the above table, or contact Wattsonic to purchase terminals of other specifications.

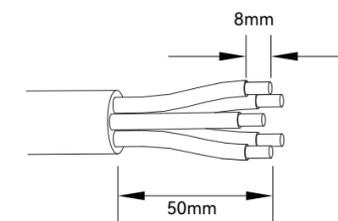
Part 1 Installation **Part 2** Electrical Connection

B Electrical wiring diagram

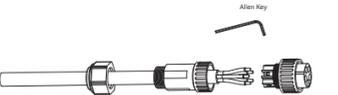


Part 1 Installation **Part 2** Electrical Connection

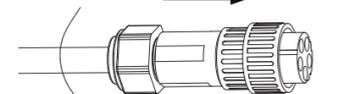
C AC Connection



①



②

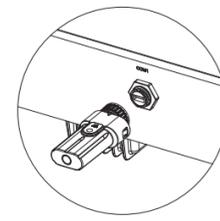


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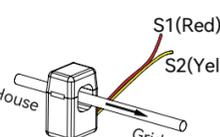
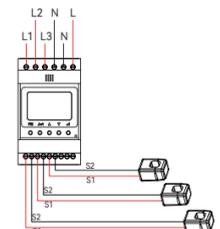
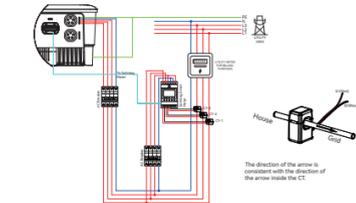


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D Monitoring Device Installation



E Meter and CT connection

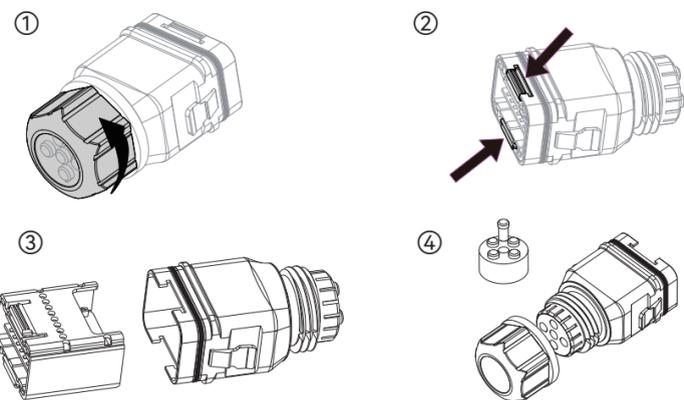


Part 1 Installation **Part 2** Electrical Connection

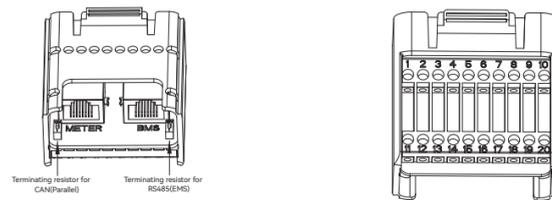
Meter terminals definition

No.	Definition	Function
5	L1-S1	To detect the CT current
6	L1-S2	
7	L2-S1	
8	L2-S2	
9	L3-S1	L1/L2/L3/N connect to grid to detect power grid voltage
10	L3-S2	
1	L1	
2	L2	Power supplied from grid
3	L3	
4	N	Communicate with inverter
12	L	
13	N	
RS485	RS485	

F Communication Connection

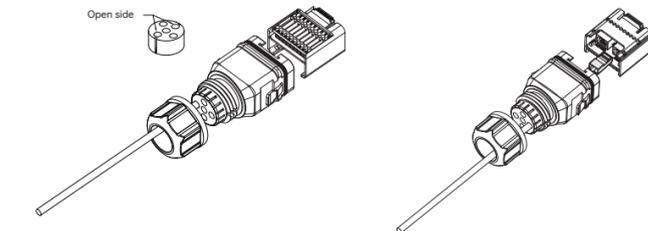


Part 1 Installation **Part 2** Electrical Connection



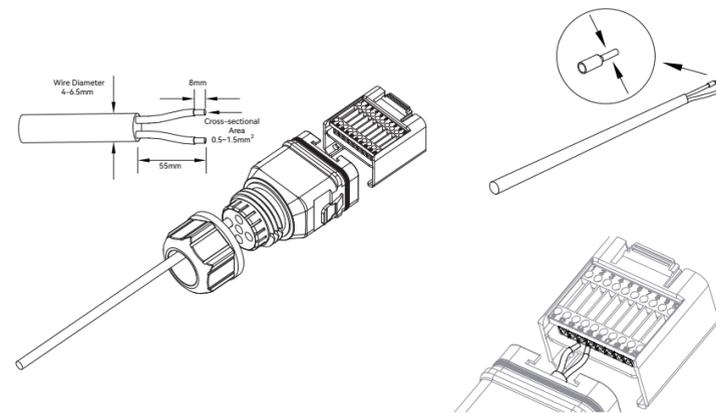
Pin	Definition	Function
RJ45-1	RS 485	Communicate with Meter
RJ45-2	CAN	Communicate with BMS
1	COM	Multifunction Relay
2	NO (Normally Open)	
3-4	/	Reserved
5	DRM4/8	
6	DRM3/7	DRED For Australia and New Zealand
7	DRM2/6	
8	DRM1/5	
15	COM D/O	
16	REF D/O	Reserved
9-10	/	
11	Fast stop +	Fast stop
12	Fast stop -	
13	485 B1	EMS
14	485 A1	
17	CANL_P	
18	CANH_P	CAN for parallel connection of inverters
19-20	/	

Connect the Meter and BMS communication cables

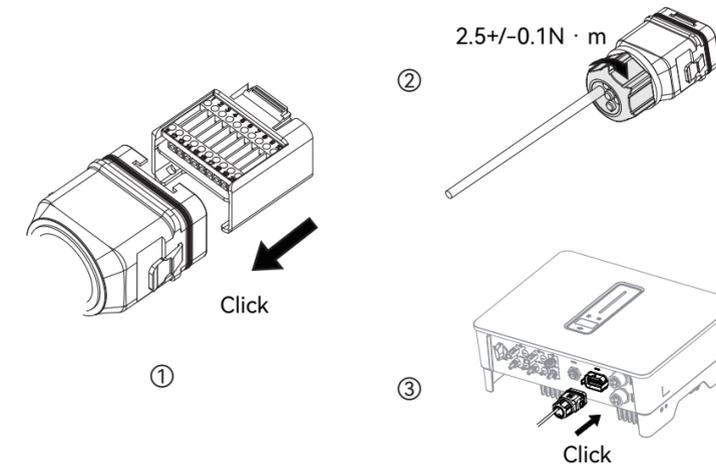


Part 1 Installation **Part 2** Electrical Connection

Connect other cables



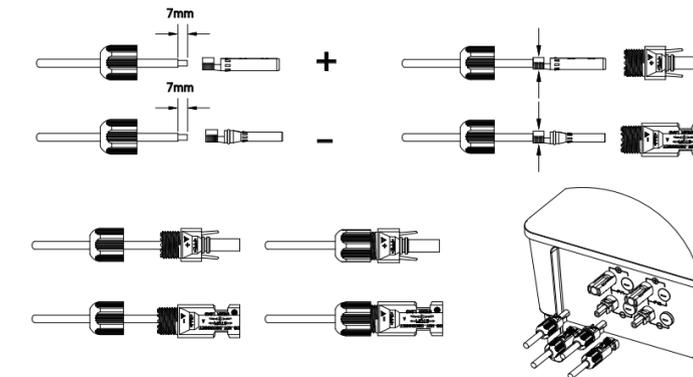
Installing the COM Connector



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G PV string connection

PV Max. Input voltage is 950V without battery, or 850V with battery, otherwise inverter will be waiting.



H Power cable of the battery connection

