WATTSONIC

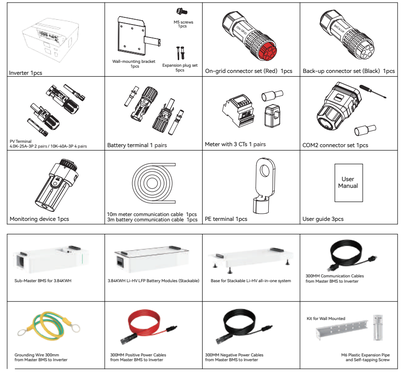
Quick Installation Guide

Wattsonic 4~20kw-3P Series

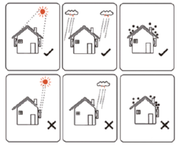
4/5/6/8/10/12-3P-3G25
10/12/15/20-3P-3G40

1 Installation

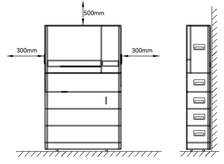
A Check Packing List



B Installation Location



C Installation Space and Angle



D Install the base

E Install the battery module & Sub-Master BMS

F Install the inverter

G Install the kit for wall mounted & cables cover

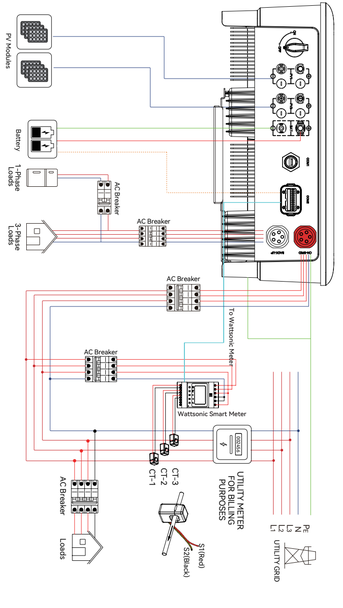
2 Electrical Connection

A Check Packing List

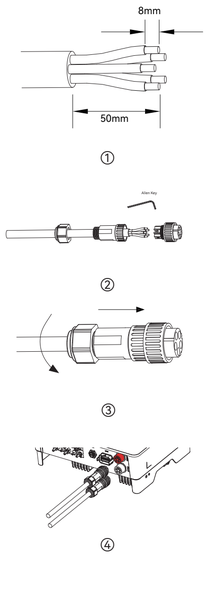
Cable types	Cable requirements	
	Outside diameter	Conductor core section
AC cable	13.0-18.0 mm	2.5-10.0 mm²
PV cable	5.9-8.8 mm	2.5-4.0 mm²
Battery power cable	5.0-8.0 mm	10 mm²

AC cable: On-grid side uses a five-core cable (L1, L2, L3, N, and PE). Back-up side uses a four-core cable (L1, L2, L3, N).
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.

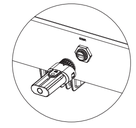
B Electrical wiring diagram



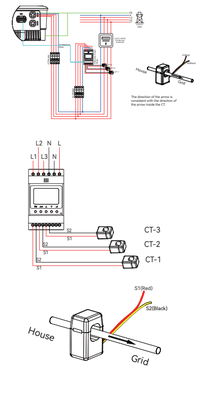
C AC Connection



D Monitoring Device Installation



E Meter and CT connection



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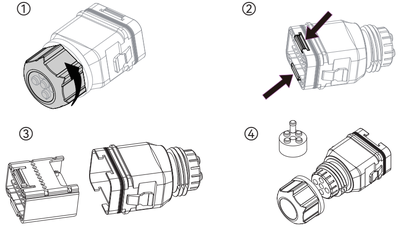
Meter terminals definition

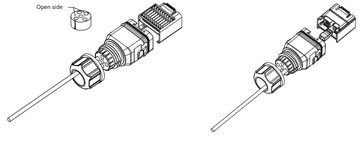
No.	Definition	Function
1	L1-S1	To detect the CT current
2	L1-S2	
3	L2-S1	
4	L2-S2	
5	L3-S1	
6	L3-S2	
7	L1	L1/L2/L3/N connect to grid to detect power grid voltage
8	L2	
9	L3	
10	N	
12	L	Power supplied from grid
13	N	
RS485	RS485	Communicate with inverter

F Communication Connection

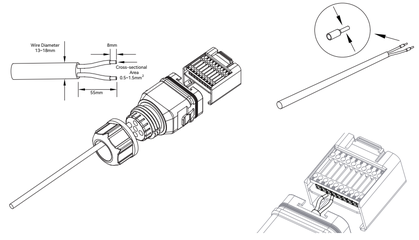


Pin	Definition	Function
RJ45-1	RS 485	Communicate with Meter
RJ45-2	CAN	Communicate with BMS
1	COM	Multifunction Relay
2	NO (Normally Open)	
3-4	/	Reserved
5	DRM4/8	DRED For Australia and New Zealand
6	DRM3/7	
7	DRM2/6	
8	DRM1/5	
15	COM D/0	
16	REF D/0	
9-10	/	Reserved
11	Fast stop +	Fast stop
12	Fast stop -	
13	485 B1	EMS
14	485 A1	
17	CANL_P	CAN for parallel connection of inverters
18	CANH_P	
19-20	/	Reserved

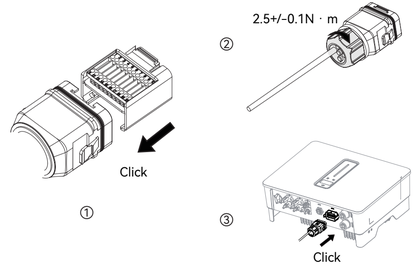
Connect the Meter and BMS communication cables



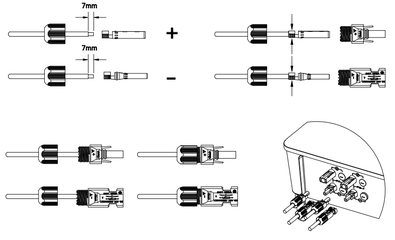
Connect other cables



Installing the COM Connector



G PV string connection



H Power cable of the battery connection