



UCANPOWER UHC-4~20KT  
Hybrid Inverter



Quick Installation Guide  
ENGLISH VERSION

Part 1 Installation  
Part 2 Electrical Connection

1 Installation

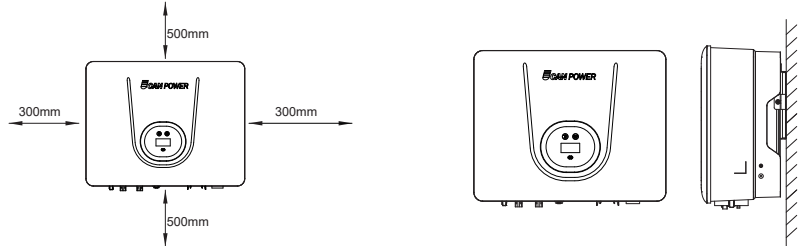
A Check Packing List

Inverter 1pcs	Wall-mounting bracket 1pcs	Expansion plug set 1pcs	On-grid connector set (Red) 1pcs	Back-up connector set (Black) 1pcs
PV terminal UHC-4~12KT 2 pairs / UHC-15~20KT 4 pairs	Battery terminal 1 pairs	Meter with 3 CTs 1pcs	COM2 connector set 1pcs	
Monitoring device 1pcs	10m meter communication cable 1pcs 3m battery communication cable 1pcs	PE terminal 1pcs	User Manual	User guide 3pcs

B Installation Location

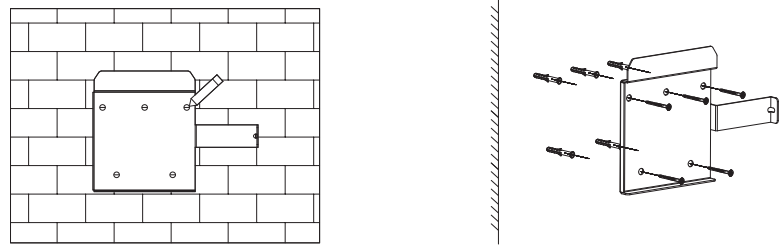


C Installation Space  
D Installation Angle

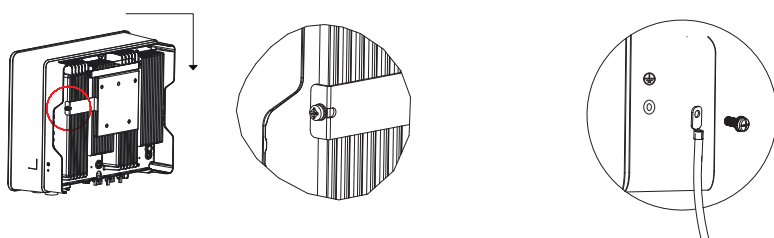


Part 1 Installation  
Part 2 Electrical Connection

E Mark the Position and Drill Holes  
F Fix Wall Bracket



G Mounting Inverter  
H Grounding Terminal Connection



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 mm <sup>2</sup>
PV cable	5.9-8.8 mm	2.5-4.0 mm <sup>2</sup>
Battery power cable	5.0-8.0 mm	10 mm <sup>2</sup>

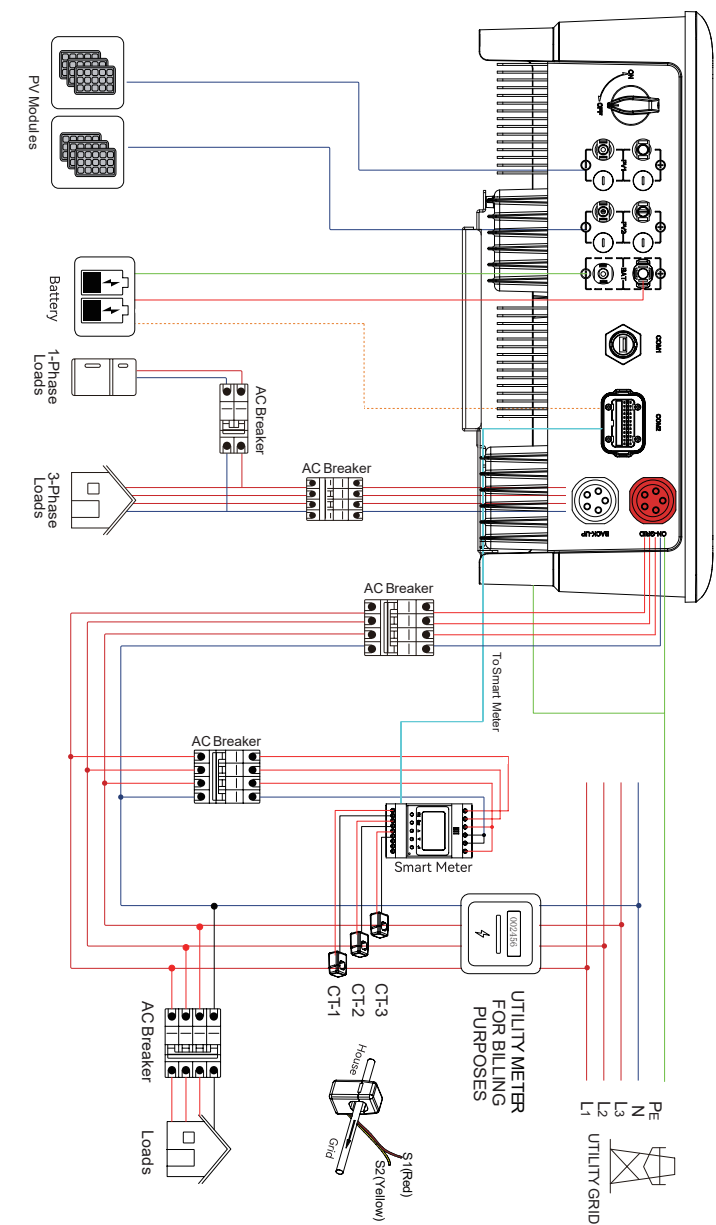
AC cable: On-grid side uses a five-core cable (L1, L2, L3, N, and PE). Back-up side uses a four-core cable (L1, L2, L3, N).

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 UCANPOWER to purchase terminals of other specifications.

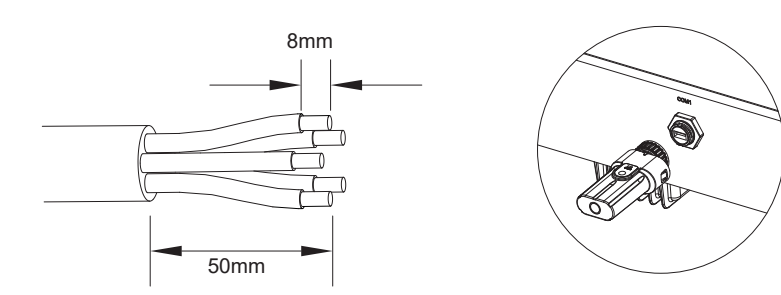
Part 1 Installation  
Part 2 Electrical Connection

B Electrical Wiring Diagram

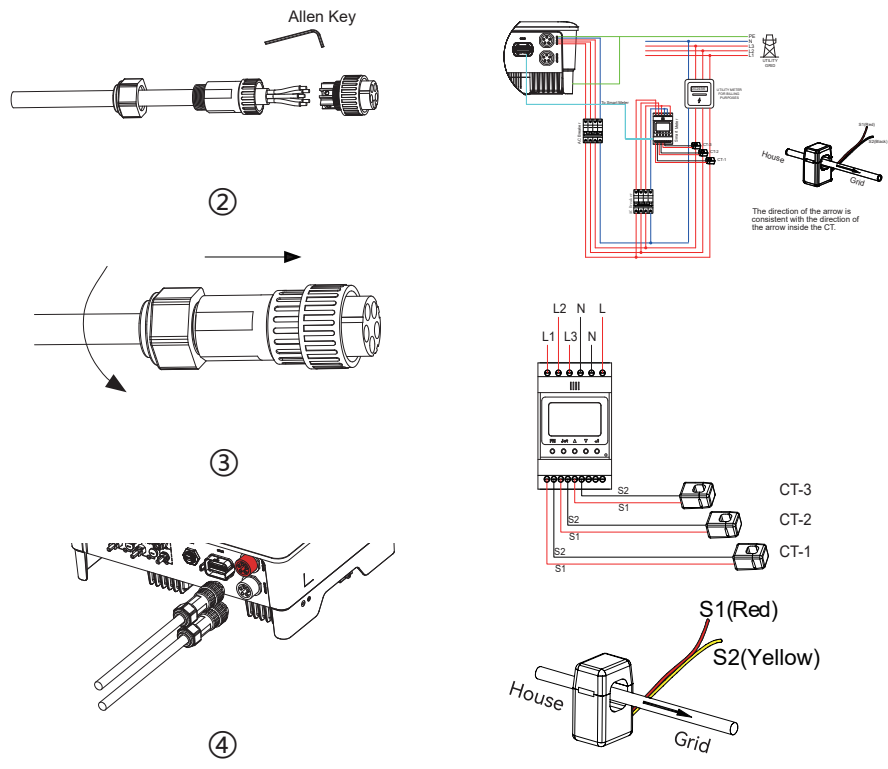


Part 1 Installation  
Part 2 Electrical Connection

C AC Connection  
D Monitoring Device Installation



E Meter and CT Connection





Part 1  
Installation

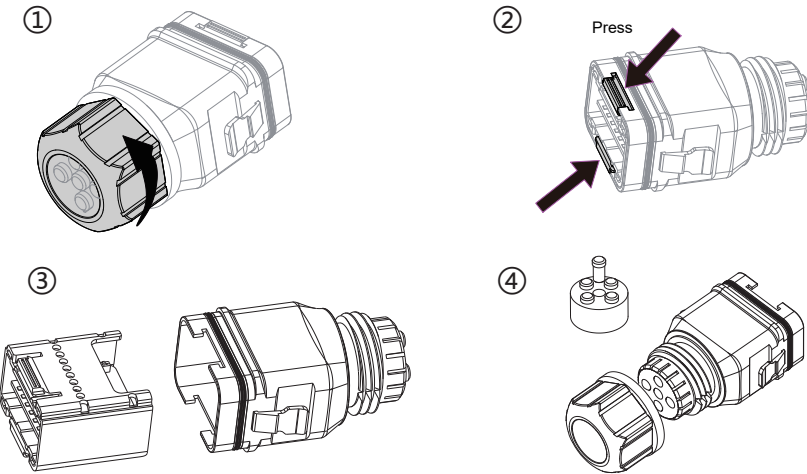
Part 2  
Electrical Connection

Meter Terminals Definition

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

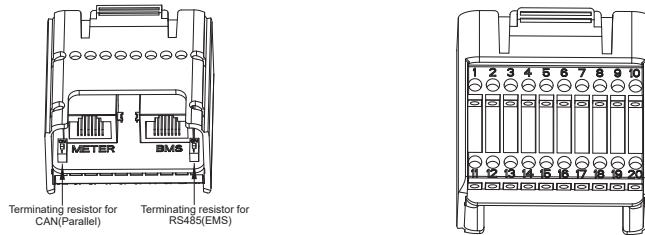
F

Communication Connection



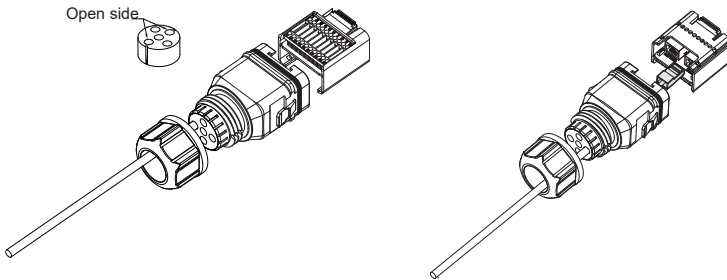
Part 1  
Installation

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/I	
16	REF D/I	Reserved
9-10	/	
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

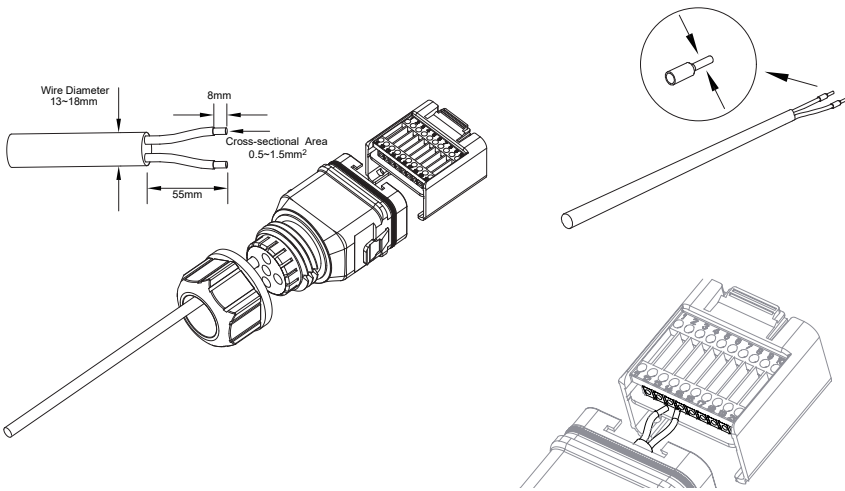
Connect the Meter and BMS Communication Cables



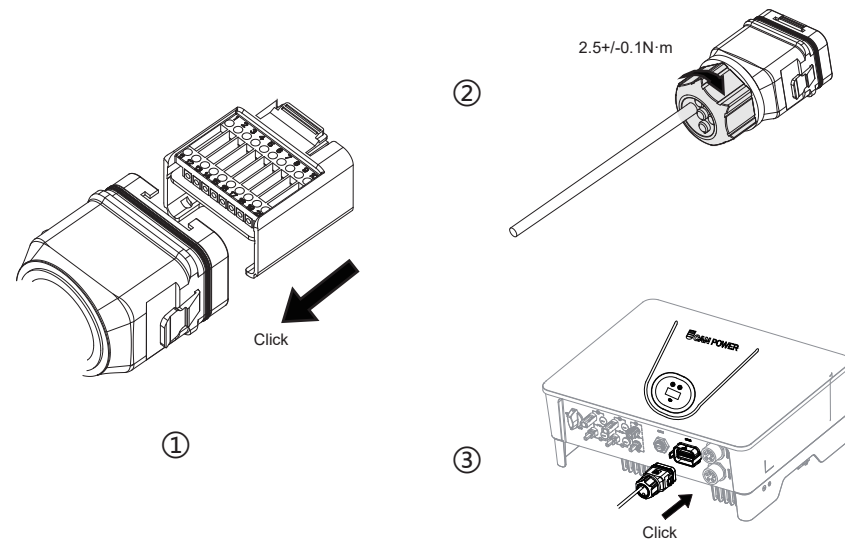
Part 1  
Installation

Part 2  
Electrical Connection

Connect Other Cables



Installing the COM Connector

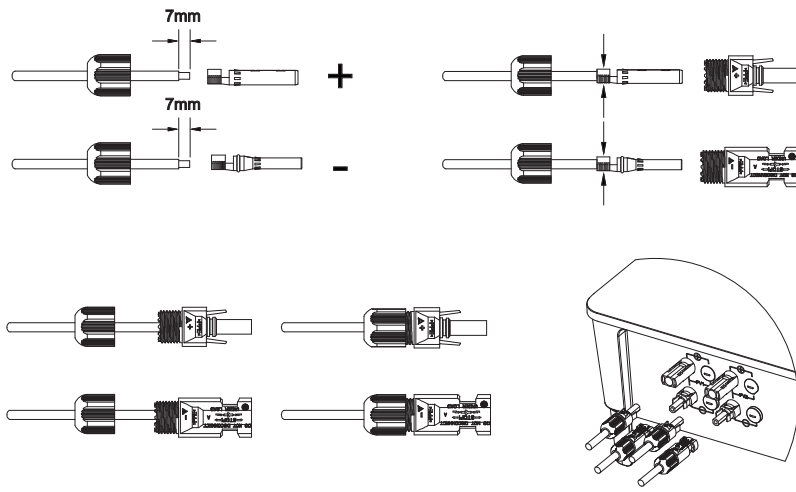


Part 1  
Installation

Part 2  
Electrical Connection

G

PV String Connection



H

Power Cable of the Battery Connection

