

INTEG **M** HYBRID INVERTER

Solinteg MHT-25~50K
Hybrid Inverter

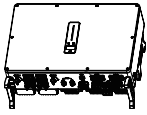
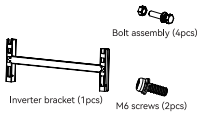
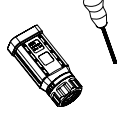
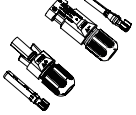
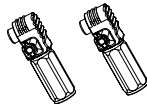
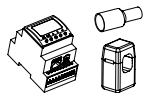


Quick Installation Guide

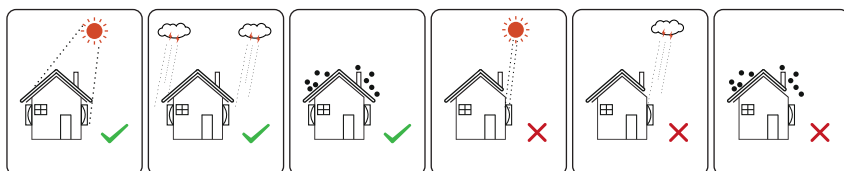
ENGLISH VERSION

1 Installation

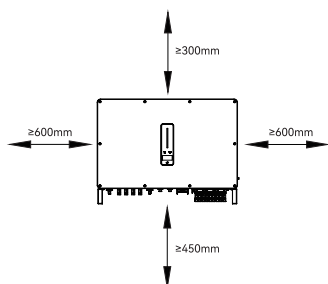
A Check Packing List

 Inverter 1pcs	 Inverter bracket (1pcs) Bolt assembly (4pcs) M6 screws (2pcs)	 AC connector set (3 pcs)	 PV terminal MHT-25-50K 8 pairs / MHT-40-50K-P 6 pairs
 Battery terminal (1 pairs)	 Meter with 3 CTs 1pcs	 COM2 connector set (1pcs)	 COM3 connector set (1pcs)
 Monitoring device 1pcs	 10m meter communication cable 1pcs 3m battery communication cable 1pcs	 User guide	

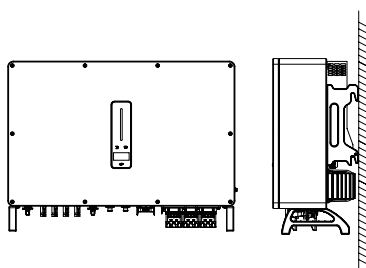
B Installation Location



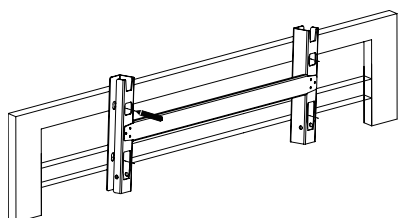
C Installation Space



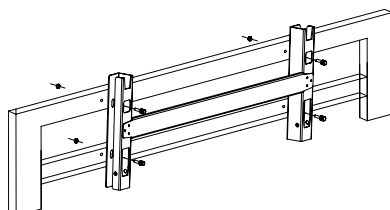
D Installation Angle



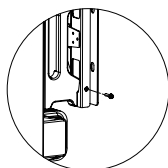
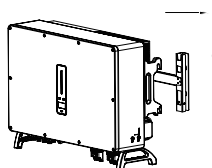
E Mark the Position and Drill Holes



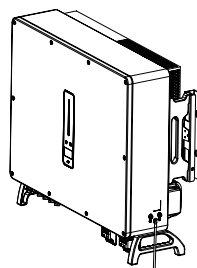
F Fix Wall Bracket



G Mounting Inverter



H Grounding Terminal Connection



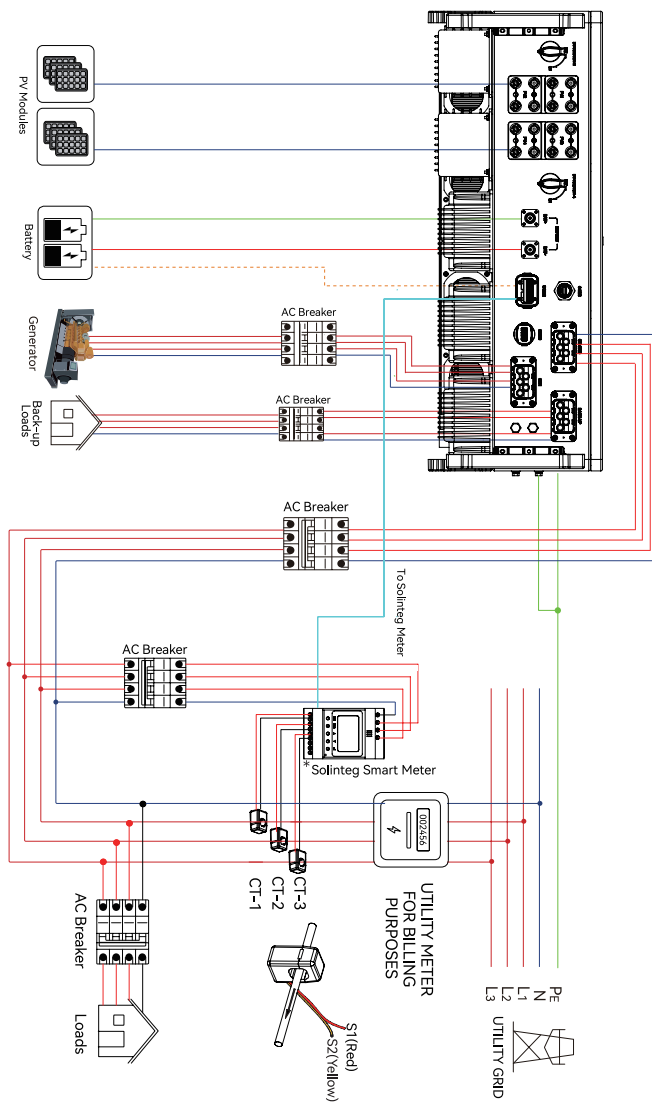
2 Electrical Connection

A Cable Requirements

Cable types	Cable requirements	
	Outside diameter	Conductor core section
AC cable	20.0-30.0 mm	10.0-25.0mm ² (Flexible cable)
		10.0-35.0mm ² (Hard cable)
PV cable	5.9-8.8 mm	4.0 mm ²
Battery power cable	9.8±0.2 mm	25.0 mm ²

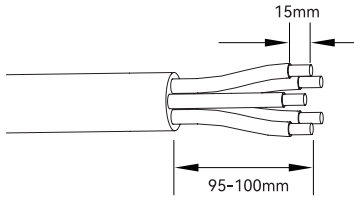
Please use the cable specified in the above table. If the conductor core of the cable is too small, which may cause poor contact between the terminal and cable.

B Electrical Wiring Diagram

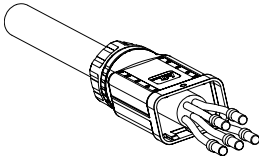


C

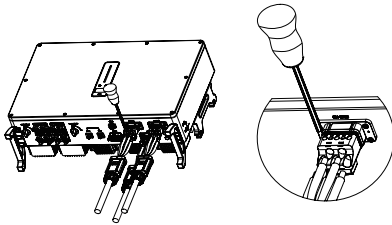
AC Connection



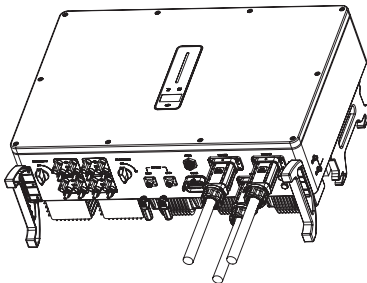
①



②



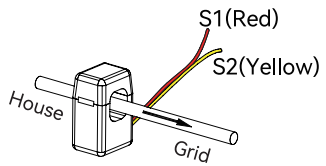
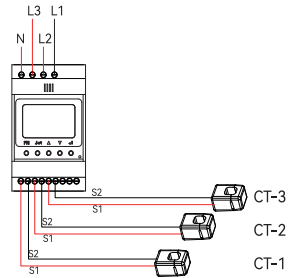
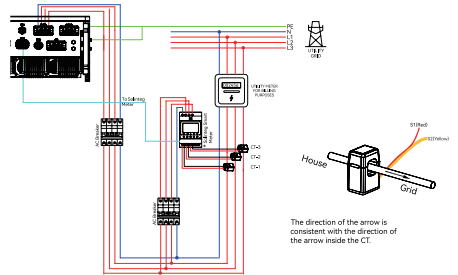
③



④

D

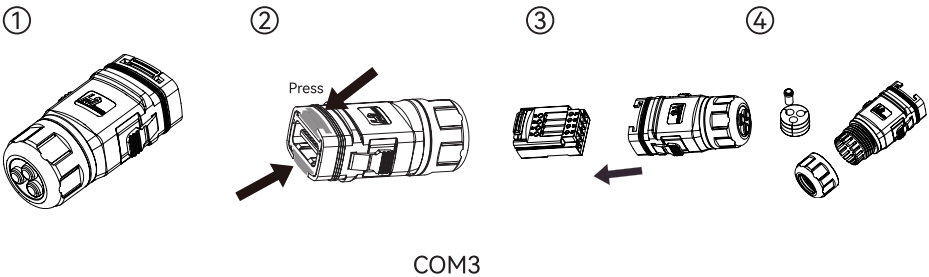
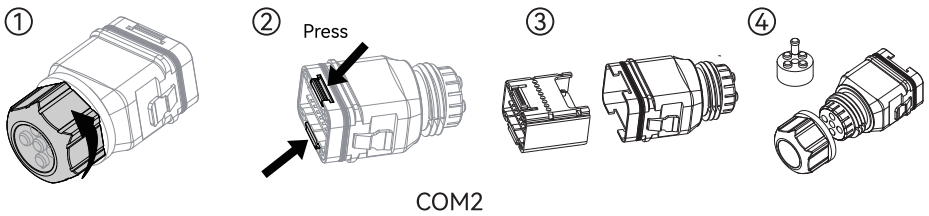
Meter and CT Connection

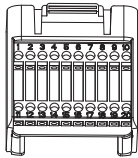
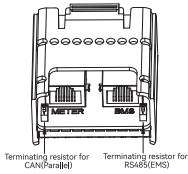


Meter Terminals Definition

No.	Definition	Function
	RMM	
1	L1	L1/L2/L3/N connect to grid to detect power grid voltage
2	L2	
3	L3	
4	N	
5	L1-S1	To detect the CT current and direction
6	L1-S2	
7	L2-S1	
8	L2-S2	
9	L3-S1	
10	L3-S2	
11	PE	Ground connection
RS485	Reserve	Communicate with hybrid inverter
	RS485-2	
ANT	Reserve	
LAN	Reserve	
Type-C	Type-C	Specified Debug Interface. Do not use it by non-professionals

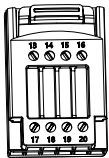
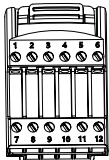
E Communication Connection





COM2

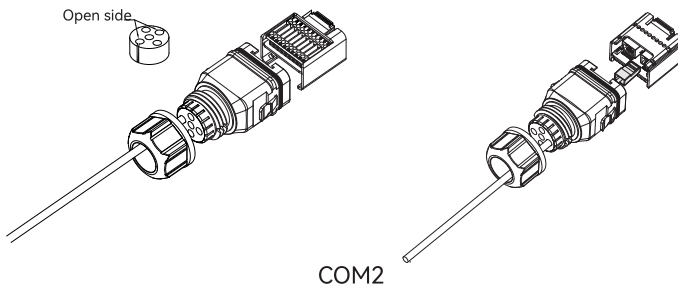
Pin	Definition	Function
METER (RJ45-1)	RS 485	Communicate with Meter
BMS (RJ45-1)	CAN	Communicate with BMS
1	COM	DO-1(Multifunction Relay) Load control (eg.SG ready heat pump)
2	NO (Normally Open)	
3-4	/	Reserved
5	DRM4/8	DRED For Australia and New Zealand RCR For Germany and some other European countries Grid/diesel generator DI signal
6	DRM3/7	
7	DRM2/6	
8	DRM1/5	
15	COM D/0	
16	REF D/0	Reserved
9-10	/	
11	Emergency stop +	Emergency stop
12	Emergency stop -	
13	485 B1	EMS
14	485 A1	
17	CANL_P	CAN for parallel connection of inverters
18	CANH_P	
19-20	/	Reserved



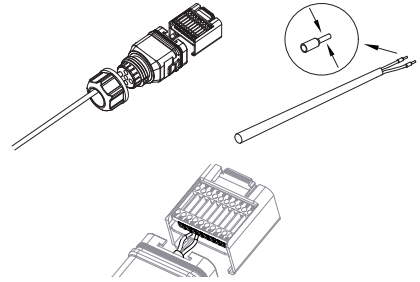
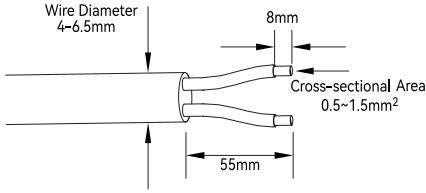
COM3

Pin	Definition	Function
1-6	/	Reserved
7	COM	DO-2(Multifunction Relay) Connected with diesel generator
8	NO	
9-10	/	Reserved
11	COM	DO-3(Multifunction Relay) Connected with backup box
12	NC	
13-16	/	Reserved
17	4-20mA_OUT	4-20mA analog output
18	GND	
19	GND	0-10V analog output
20	0-10V_OUT	

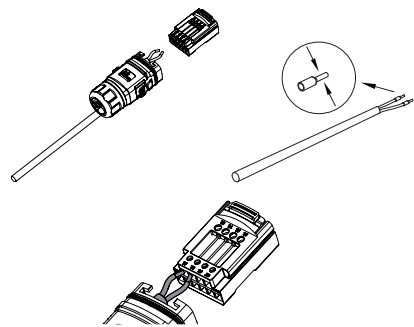
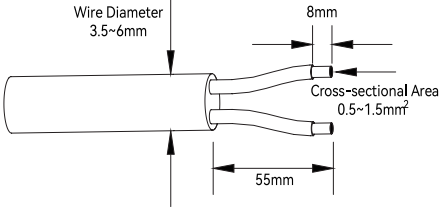
Connect the Meter and BMS Communication Cables



Connect Other Cables



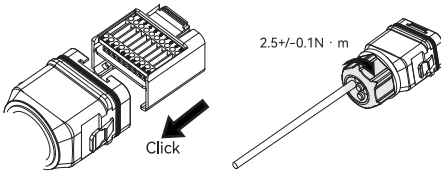
COM2



COM3

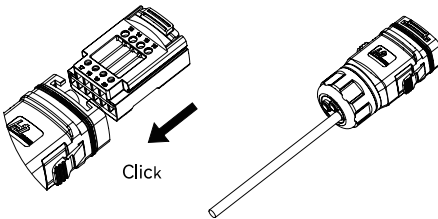
Installing the COM Connector

①



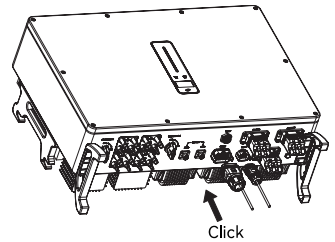
COM2

②

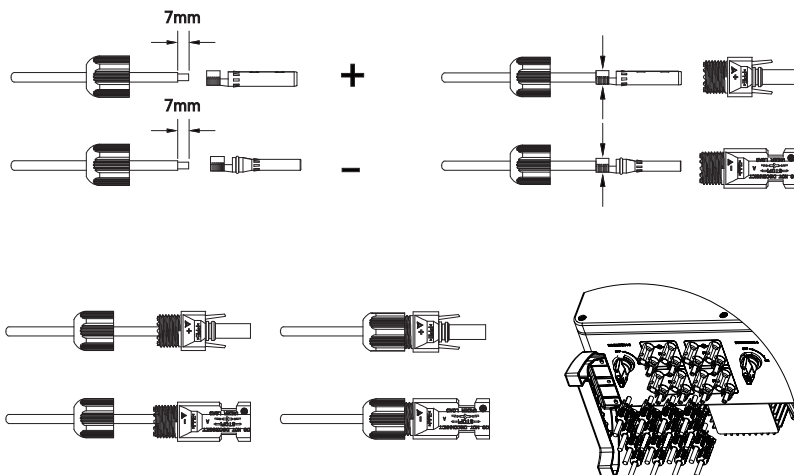


COM3

③

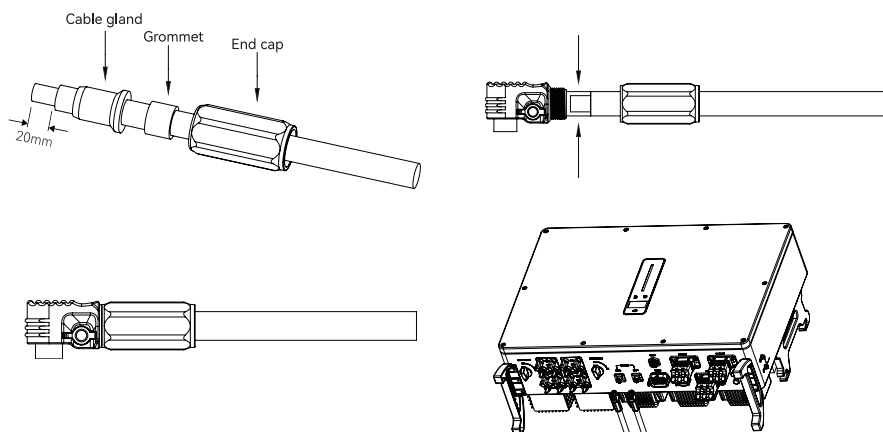


F PV String Connection



PV Max. Input voltage is 850V , otherwise inverter will be waiting.

G Power Cable of the Battery Connection



I N T E G R A T E S O L A R I N T E L L I G E N T



www.solinteg.com

M11-00012-04