

SOLAX



X3-NEO-LV

5 kW / 8 kW / 10 kW /

12 kW / 15 kW / 20 kW

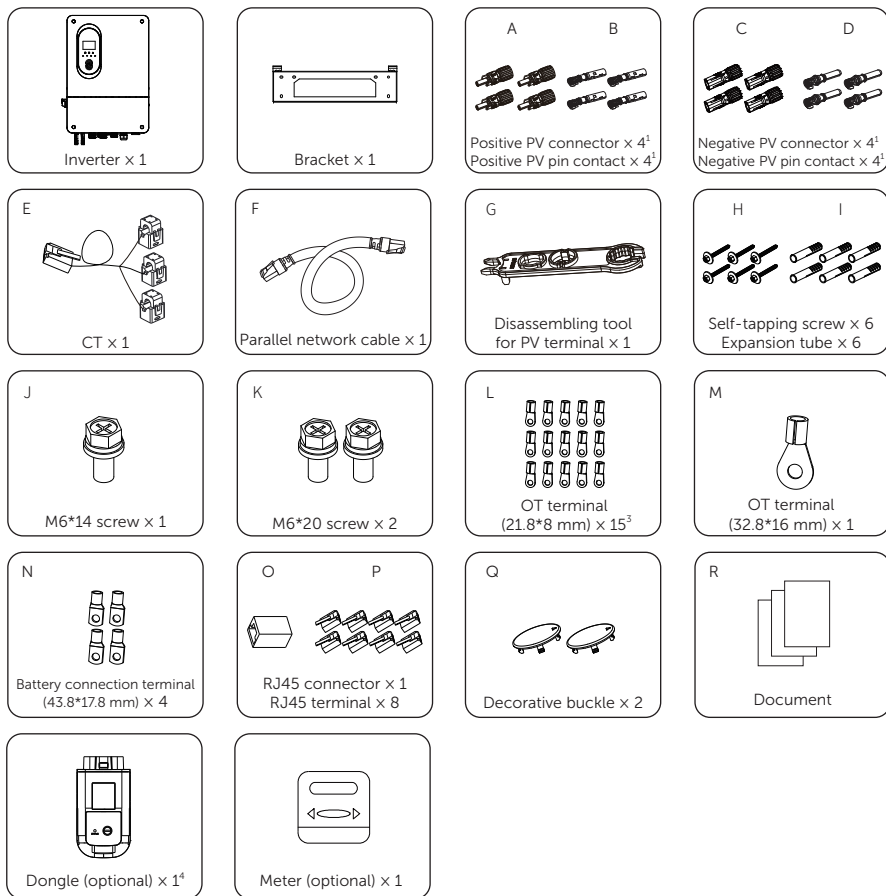
Installation Manual

Version 4.0

www.solaxpower.com



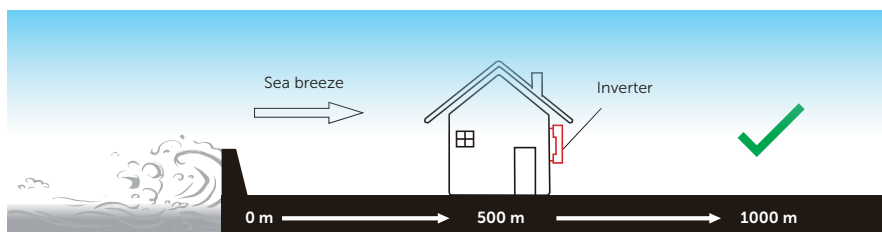
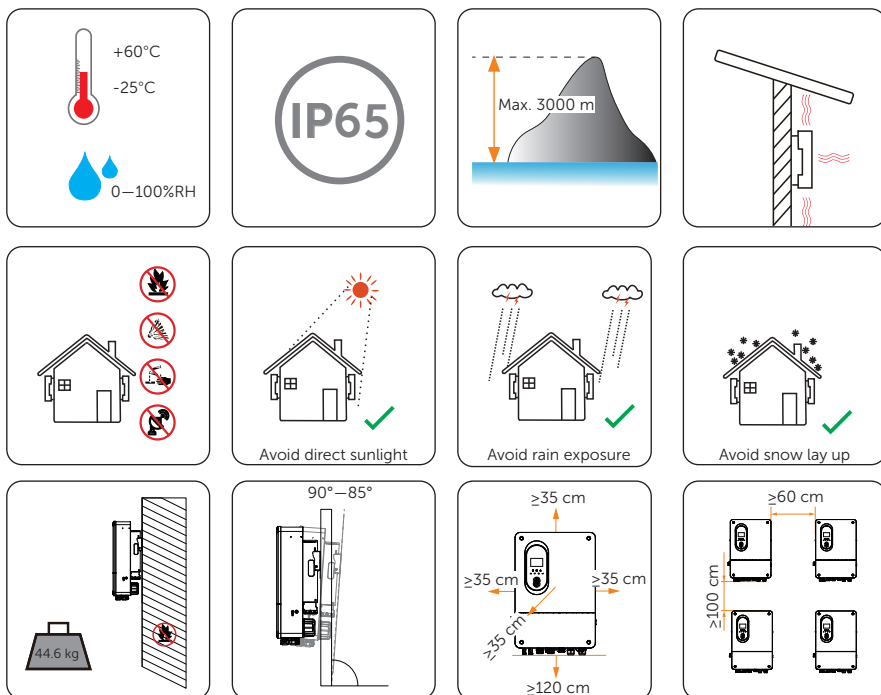
Packing List / Packliste / Liste du matériel livré / Lista de piezas / Lista da embalagem / Paklijst / Contenuto della confezione / Zawartość opakowania / Seznam balení / Packlista / Listă de ambalare / Опаковъчен лист / Pakkeliste / Λίστα συσκευασίας / Pakkeleht / Pakkausluettelo / Popis pakiranja / Csomaglista / Pakuotės turinys / Iepakojuma saraksts / Zoznam položiek balenia / Seznam pakiranja / Kutu Listesii / Lista de Embalagem



Note:

- Refer to the actual delivery for the optional accessories.
- The figures of packing list take 15 kW inverter as an example.
- "1": 4 pcs for 12 kW, 15 kW and 20 kW inverter; 3 pcs for 10 kW inverter; 2 pcs for 5 kW and 8 kW inverter;
- "2": For lead-acid batteries.
- "3": 5 pcs for the **GRID** terminal, 5 pcs for the **GEN** terminal, 5 pcs for the **EPS** terminal.
- "4": This section uses a specific dongle model as an example. Please refer to your actual dongle. For dongle installation, see its documentation.

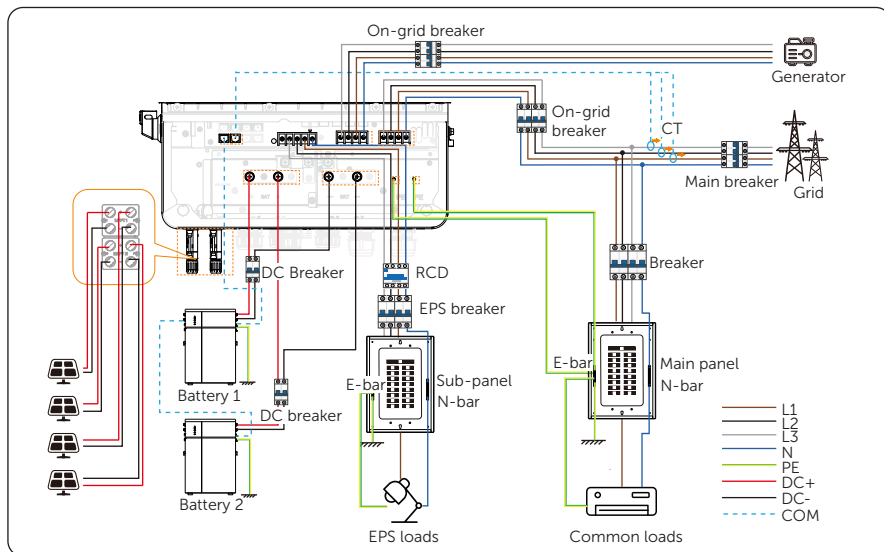
Mounting Location / Montageort / Emplacement de montage / Ubicación de montaje / Localização de montagem / Bevestigingslocatie / Posizione di montaggio / Lokalizacja miejsca montażu / Montážní místo / Monterings plats / Locație de montare / Место за монтаж / Monteringssted / Τοποθεσία στερέωσης / Paigalduskoht / Asennuspaikka / Mjesto postavljanja / Rögzítési hely / Montavimo vieta / Montāžas vieta / Miesto inštalácie / Mesto namestitve / Montaj Konumu / Local de montagem



NOTICE!

- For outdoor installation, precautions against direct sunlight, rain exposure and snow accumulation are recommended,
- Exposure to direct sunlight raises the temperature inside the device. This temperature rise poses no safety risks, but may impact the device performance.

Wiring Diagram / Schaltplan / Schéma de câblage / Diagrama de cableado / Diagrama de ligação / Bedradingsschema / Schema elettrico / Schemat połączeń / Schéma zapojení / Kopplingsschema / Schemă de conexiuni / Схема на свързване / Ledningsdiagram / Διάγραμμα συνδεσμολογίας / Ühendusskeem / Kytkentäkaavio / Dijagram ožičenja / Kapcsolási rajz / Elektros laidų montavimo schema / Elektroinstalācijas shēma / Schéma zapojenia / Električna shema / Bağlantı Şeması / Diagrama de fiação



Note:

- Breaker recommended for grid connection (with EPS)

Model	5 kW	8 kW	10 kW	12 kW	15 kW	20 kW
On-grid breaker	25 A	32 A	50 A	50 A	50 A	63 A

- Breaker recommended for grid connection (without EPS)

Model	5 kW	8 kW	10 kW	12 kW	15 kW	20 kW
On-grid breaker	25 A	32 A	50 A	50 A	50 A	63 A

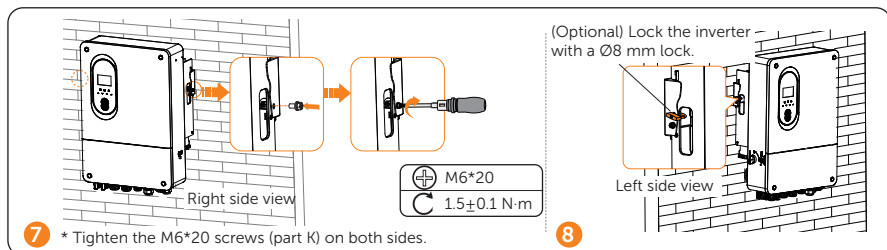
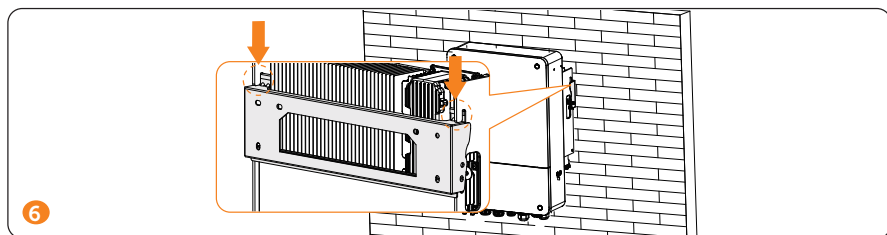
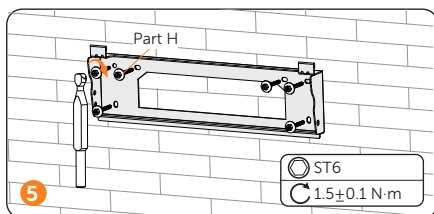
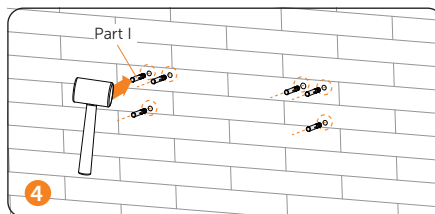
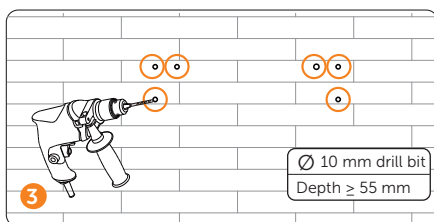
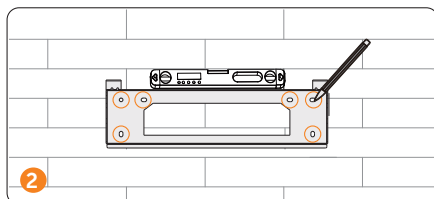
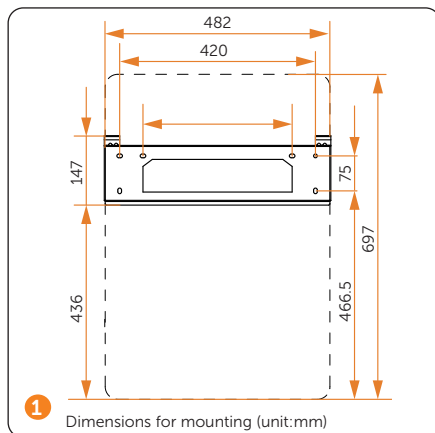
- Breaker recommended for off-grid connection (only EPS)

Model	5 kW	8 kW	10 kW	12 kW	15 kW	20 kW
EPS breaker	25 A	32 A	50 A	50 A	50 A	63 A

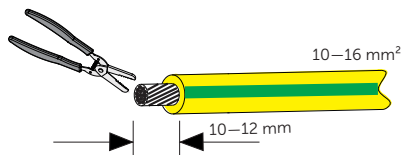
- Breaker recommended for battery connection

Model	5 kW	8 kW	10 kW	12 kW	15 kW	20 kW
DC breaker	200 A	320 A	320 A	400 A	400 A	400 A

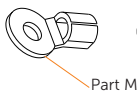
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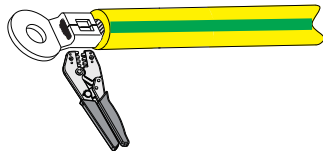
PE Connection / Schutzerdungs-Anschluss / Connexion PE / Conexión PE / Ligação à Terra / PE-aansluiting / Collegamento PE / Połączenie PE / PE připojení / PE-anslutning / Conexiune PE / PE връзка (земя) / Jordforbindelse / Σύνδεση PE / PE ühendus / PE-yhteys / PE priključak / PE bekötés / PE (apsauginio įžeminimo) kontaktas / PE savienojums / Pripojenie ochranného vodiča / PE povezava / PE Bağlantısı / Conexão PE



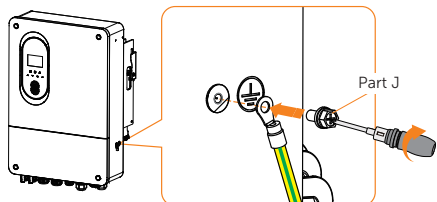
1



2



3

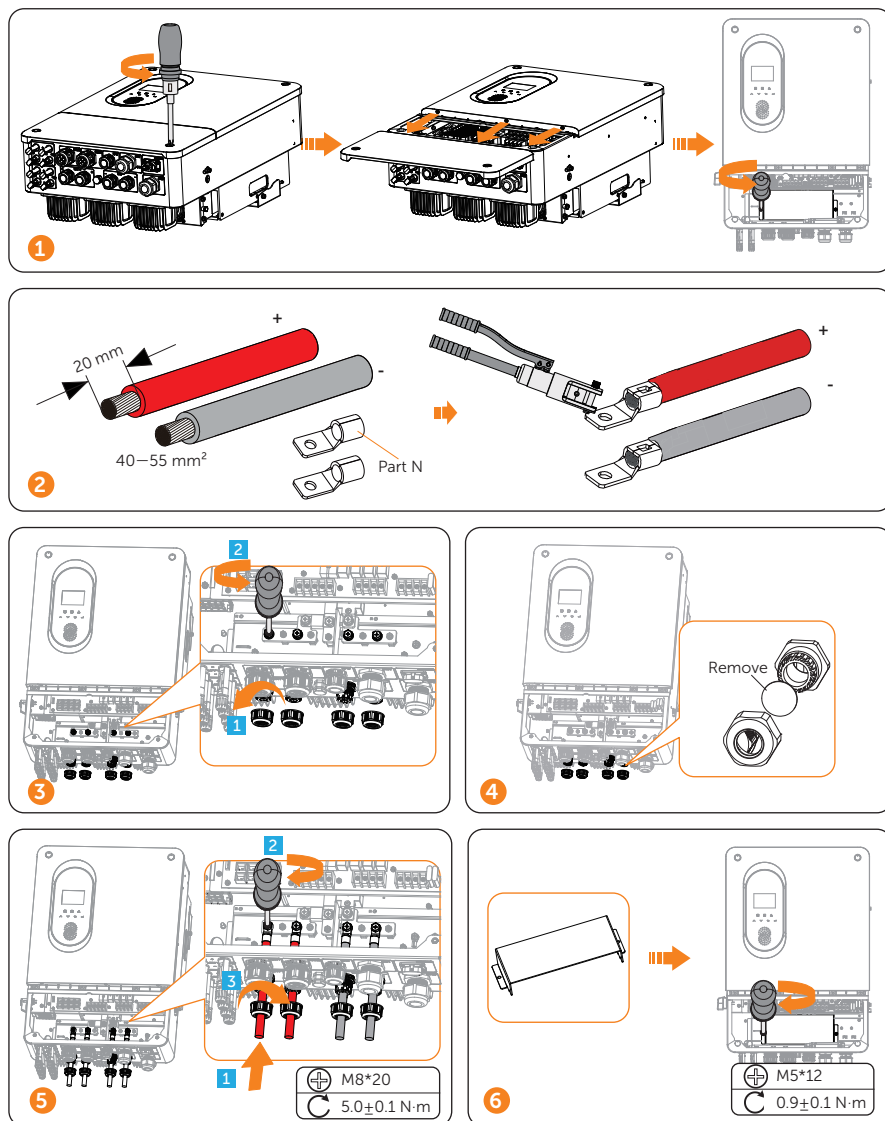


4

M6*14
1.5±0.1 N·m

Battery Connection / Batterieanschluss / Branchement de la batterie / Conexión de la batería / Ligaçao da bateria / Batterij-aansluiting / Collegamento della batteria / Połączenie akumulatora / Pripojení baterie / Batterianslutning / Conectare baterie / Връзка с батерията / Batteritilslutning / Σύνδεση μπαταρίας / Akuühendus / Akun liitantä / Priključak za bateriju / Akumulátor bekötés / Akumulatoriaus jungtis / Akumulatora savienojums / Pripojenie batérie / Povezava baterije / Akü Bağlantısı / Conexão da Bateria

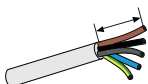
* If using a lithium-ion battery, connect the battery power cable and BMS communication cable. If using a lead-acid battery, connect the battery power cable and battery temperature sensor.



AC Side Connection / Wechselstrom-seitiger Anschluss / Connexion côté CA / Conexión lateral de CA / Ligação lateral CA / Aansluiting wisselspanningszijde / Collegamento lato CA / Połączenie po stronie AC / Boční připojení střídavého proudu / Anslutning på AC-sidan / Conexiune laterală c.a. / Свързване от AC страната / AC-sidetilslutning / Πλαϊνή σύνδεση AC / Vahelduvvoolpooloolne ühendus / AC-puolen liitäntä / Priključak za izmjeničnu struju (AC) / Váltóáram-oldali bekötés / AC (kint. sr.) šoninis kontaktas / Mainstrāvas puses savienojums / Pripojenie na strane striedavého prúdu / AC stranska povezava / AC Yan Bağlantı / Conexão do Lado CA

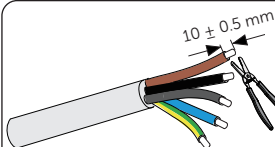
	5/8/10 kW	12kW	15/20 kW
Grid connection (with EPS)	6–7 mm ²	6–8 mm ²	8–10 mm ²
Grid connection (without EPS)	6–7 mm ²	6–8 mm ²	8–10 mm ²
Off-grid connection (only EPS)	6 mm ²	6 mm ²	6 mm ²
GEN	6–7 mm ²	6–8 mm ²	8–10 mm ²

Length (mm)	L1	L2	L3	N	PE
Grid	140	140	140	140	55
GEN	120	120	120	120	110
EPS	130	130	135	120	140

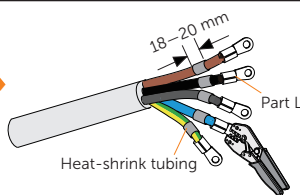


1

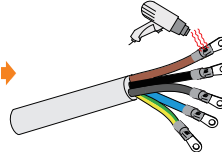
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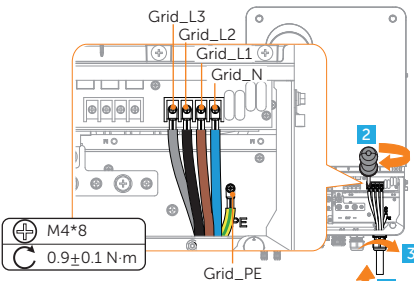
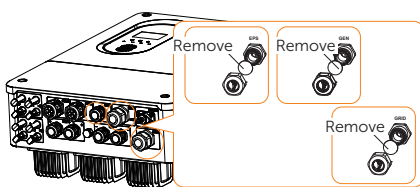
3



Heat-shrink tubing



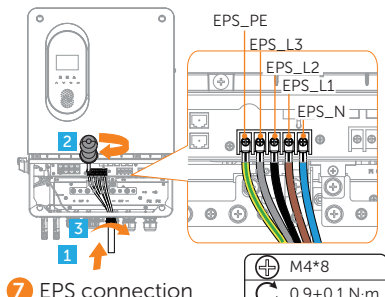
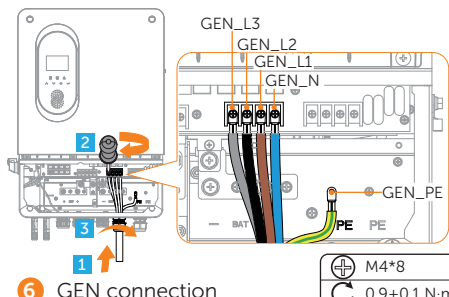
4



5 Grid connection

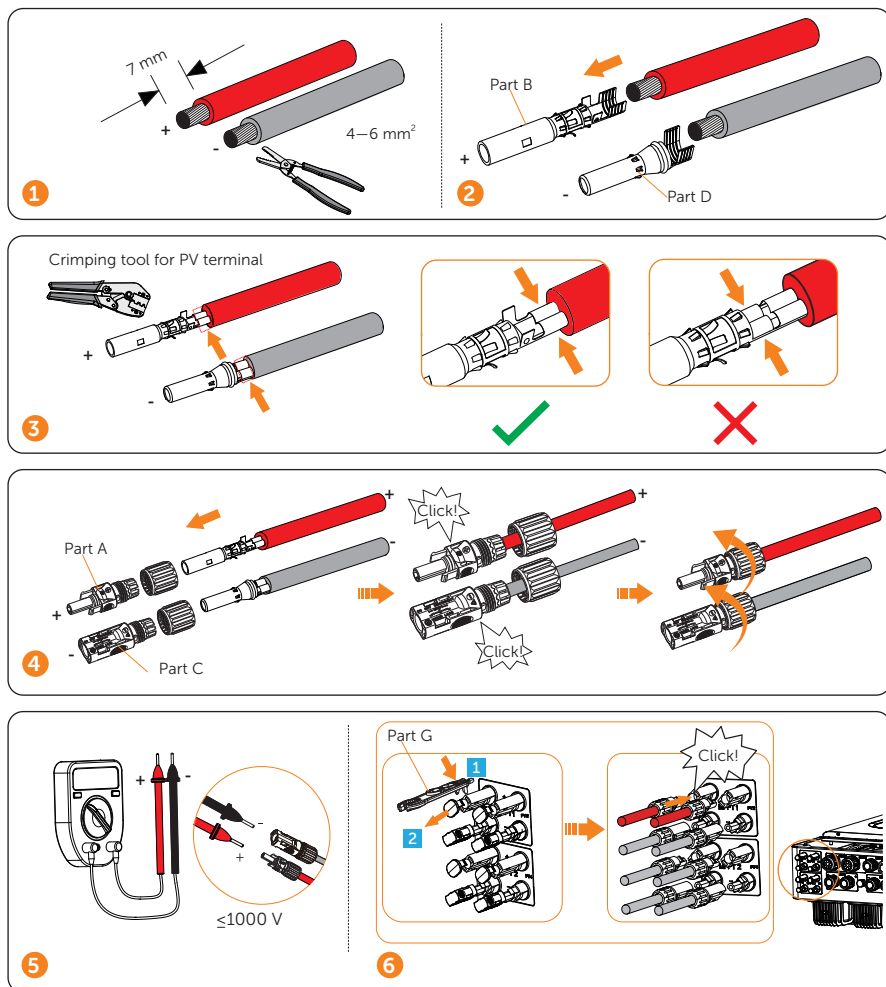
6

GEN connection



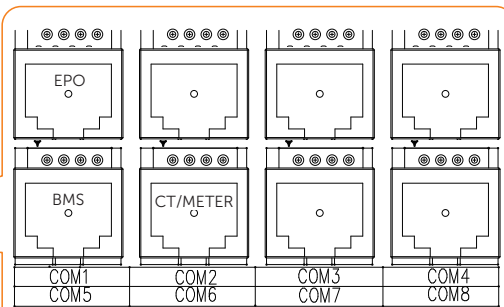
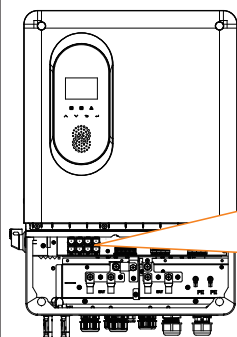
7 EPS connection

DC Side Connection / Gleichstrom-seitiger Anschluss / Connexion côté CC / Conexión lateral de CC / Ligação lateral CC / Aansluiting gelijkspanningszijde / Collegamento lato CC / Połączenie po stronie DC / Boční připojení stejnosměrného proudu / Anslutning på DC-sidan / Conexiune laterală c.c. / Свързване от DC страната / DC-sidetilslutning / Πλαϊνή σύνδεση DC / Alalisvoolupoolne ühendus / DC-puolen liitântä / Priključak za istosmjernu struju (DC) / Egyenáram-oldali bekötés / DC (nuol. sr.) šoninis kontaktas / Līdzstrāvas puses savienojums / Pripojenie na strane jednosmerného prúdu / DC stranska povezava / DC Yan Bağlantı / Conexão do Lado CC



Communication Connection / Kommunikations-Anschluss / Branchement de communication / Conexión de comunicación / Ligaçao à Comunicação / Communicatie-aansluiting / Collegamento comunicazione / Połączenie komunikacyjne / Komunikáční připojení / Kommunikationsanslutning / Conexiune de comunicare / Коммуникационная връзка / Kommunikationsforbindelse / Σύνδεση επικοινωνίας / Sideühendus / Tiedonsiirtoliitäntä / Priključak za komunikaciju / Komunikációs bekötés / Duomenų ryšys / Sakaru savienojums / Pripojenie komunikácie / Komunikacijska povezava / İletişim Bağlantısı / Conexão de Comunicação

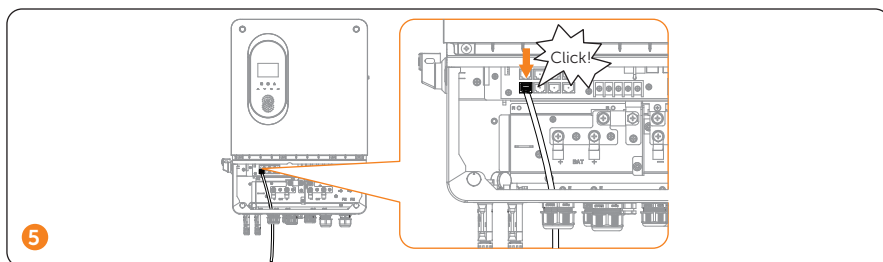
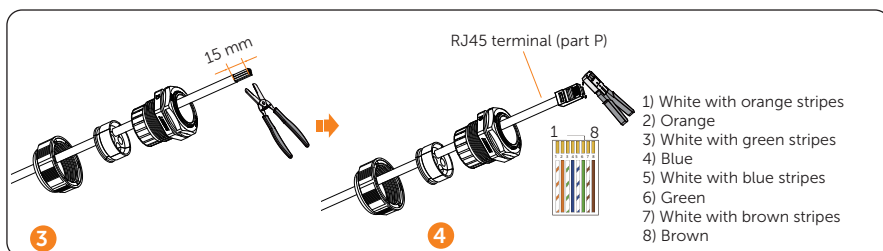
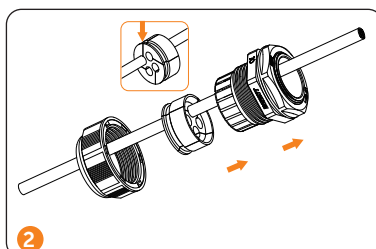
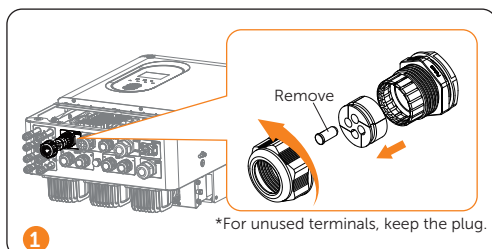
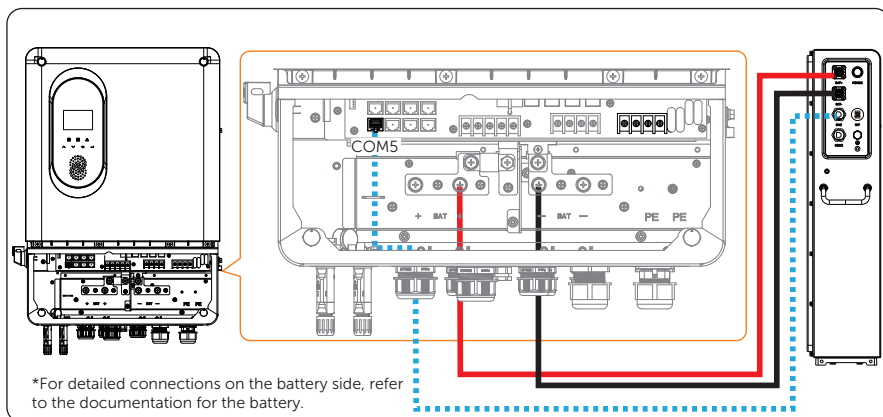
Pin assignment of EPO, CT/METER, BMS



Assignment	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
EPO	SHUTDOWN1_ IN0	SHUTDOWN1_ IN	GND_ COM	RED-485A	RED-485B	GND_ COM	NG	NG
CT/METER	CT_L1_N	CT_L2_N	CT_L3_N	METER_485A	METER_485B	CT_L3_P	CT_L2_P	CT_L1_P
BMS	BMS-485B	BMS-485A	GND_ COM	BMS-CANH	BMS-CANL	NG	BMS_12V	NTC

*For pin assignment of other communication ports, refer to the user manual.

BMS Connection (For Lithium-ion Battery)



Wiring diagram of connecting a batch of CTs

The arrow on CT must point to the grid.

Grid → Inverter

L wire

E-BAR

Grid

CT-T

CT-S

CT-R

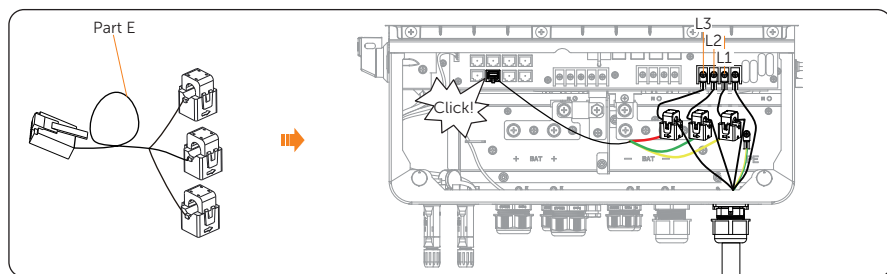
RCD

N-BAR

Load

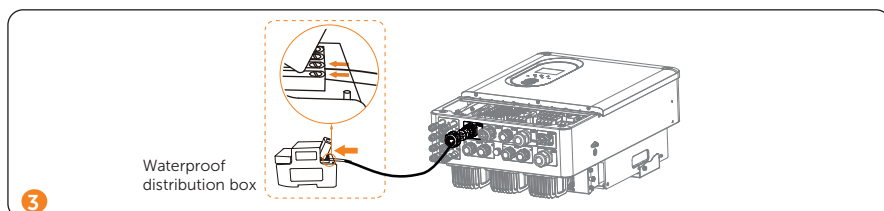
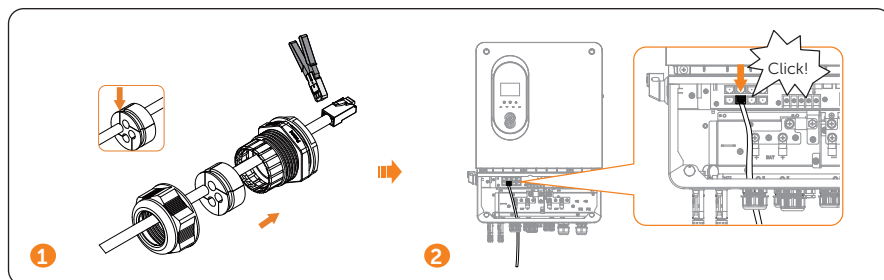
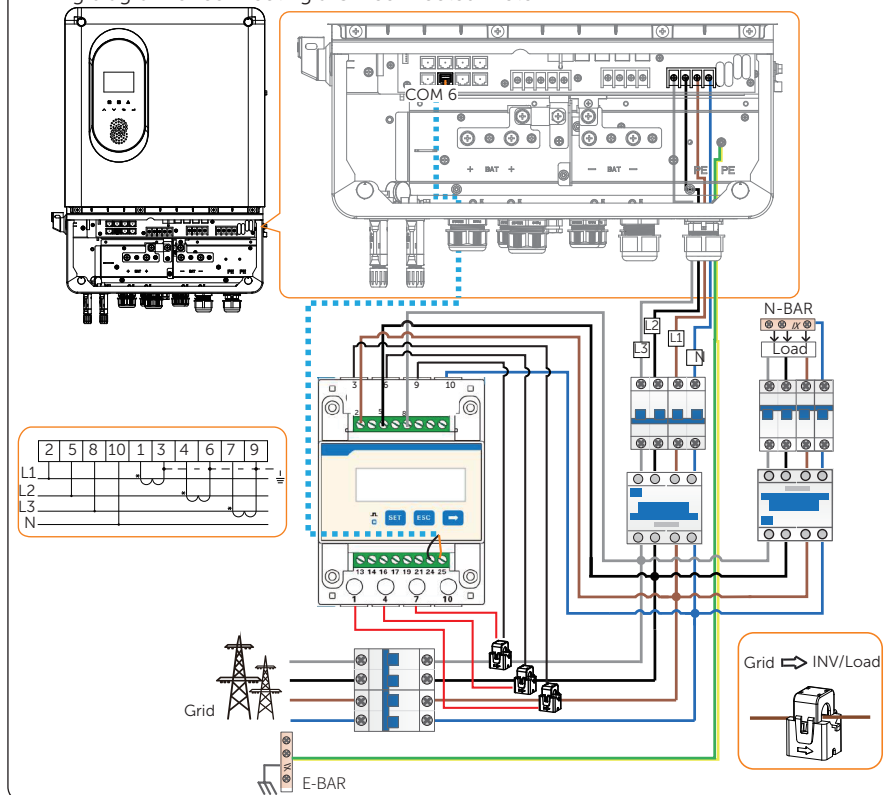
RCD

- Case 1



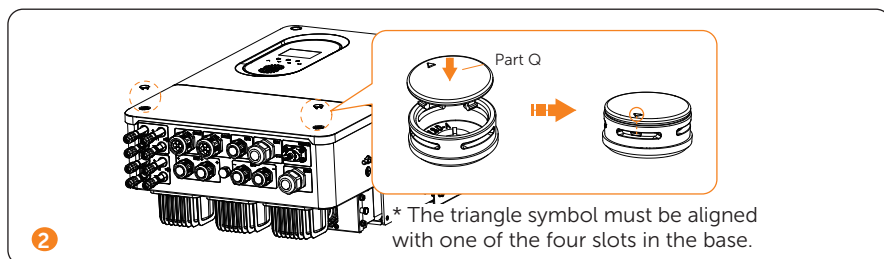
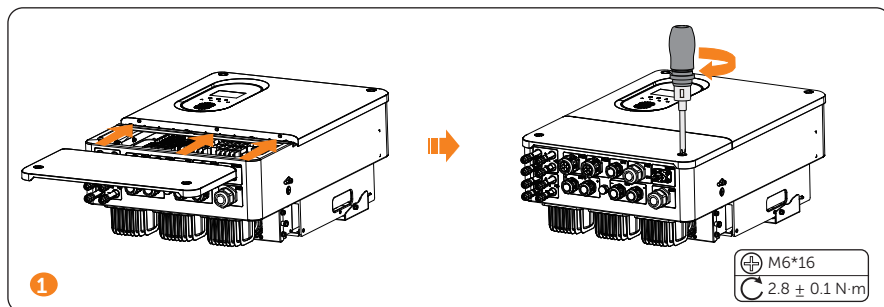
-
- Diagram illustrating the assembly of the waterproof distribution box:
- The cable is connected to the connector.
 - The plug (Part P) is inserted into the socket (Part O).
 - The assembly is inserted into the waterproof distribution box, resulting in a "Click!" sound.

Wiring diagram of connecting a CT-connected meter



* Refer to the user manual for other communication connections.

Upper Cover Installation



Power On/Off / Einschalten/Ausschalten / Marche/Arrêt / Encendido/apagado / Ligar/Desligar / In-/uitschakelen / Accensione/Spengnimento / Włączanie/wyłączanie zasilania / ZAP/VYP / Ström på/av / Pornire/Oprire / Включване/изключване / Ström til/fra / Ενεργοποίηση/Απενεργοποίηση / Toide sisse/välja / Virta päälle/pois / Uključivanje/isključivanje napajanja / Be-/kikapcsolás / Maitinimo įjungimas / išjungimas / Barošanas ieslēgšana/izslēgšana / Napájanie zapnuté/vypnuté / Vkllop/izklop / Güç Açık/Kapalı / Ligar/Desligar

NOTICE!

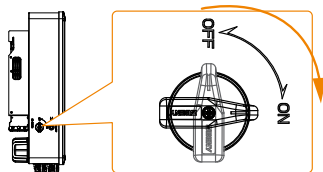
- The user interface shown is for reference only and may vary depending on your selected settings. Refer to the actual interface.
- Due to product updates, the actual settings may differ. Refer to the actual interface.

Power-on

Step Description

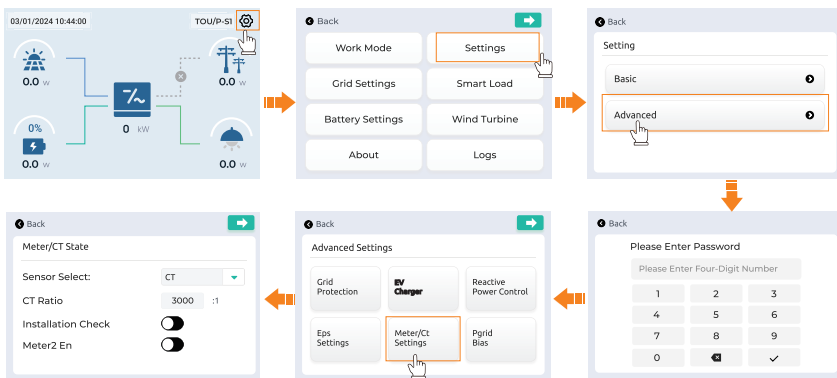
Turn on the PV switch and check the LCD screen.

1



On the main screen, go to **Settings > Advanced**, enter the password (default: **2 0 1 4**), and select **Meter/Ct Settings** to set the sensor (default sensor: **CT**).

2

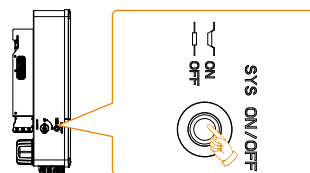


3

Switch on the battery. For details, see the documentation of the battery.

Press the system switch to turn it **ON**.

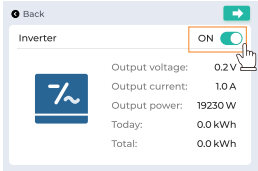
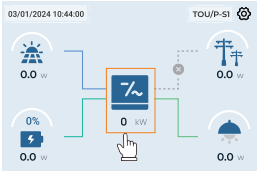
4



Step Description

On the LCD main screen, tap the inverter icon and enable the system switch.

5

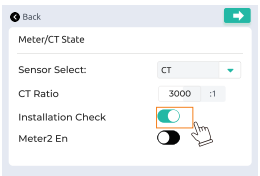


The LCD main screen displays various energy metrics and a central inverter icon. An arrow points to the inverter icon, which is highlighted with a red box. To the right, the 'Inverter' settings screen is shown, with the 'ON' toggle switch highlighted by a red box and a hand icon.

6 Wait for the inverter to start up.

After initial power-up, return to the main screen, go to  > **Settings** > **Advanced**, enter the password (default: **2 0 1 4**), select **Meter/Ct Settings**, and enable **Installation Check** to verify the CT sensor setup.

7



The 'Meter/Ct State' settings screen is shown. The 'Installation Check' toggle switch is highlighted with a red box and a hand icon.

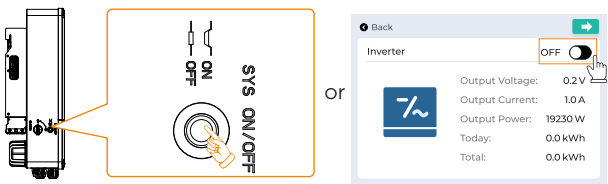
***Installation Check** is available when the CT is connected to the **GRID** terminal. If you connect a meter to the **GRID** terminal, this setting is unavailable, and you must check the meter wiring manually.

Power-off

Step Description

Press the system switch to turn it **OFF**, or tap the inverter icon and disable the system switch on the LCD screen.

1

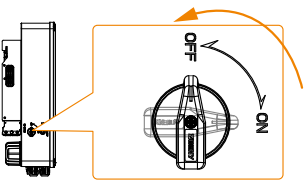


The physical system switch is shown on the left, with a red box highlighting the 'SYS ON/OFF' label. To the right, the 'Inverter' settings screen is shown, with the 'OFF' toggle switch highlighted by a red box and a hand icon.

2 Turn off the AC switch between the inverter and the power grid.

Turn off the PV switch.

3



The physical AC and PV switches are shown. The AC switch is highlighted with a red box and a hand icon, and the PV switch is highlighted with a red box and a hand icon.

4 Switch off the battery. For details, see the documentation of the battery.

General Settings / Allgemeine Einstellungen / Paramètres généraux / Configuración general / Definição Geral / Algemene instelling / Impostazione generale / Ustawienia ogólne / Obecné nastavení / Generell inställning / Setare general / Обща настройка / General indstilling / Γενική τοποθέτηση / Üldine seadistus / Yleisasetus / Орče postavke / Általános beállítás / Bendrasis nustatymas / Vispārīgs iestatījums / Všeobecné nastavenie / Splošna nastavitve / Genel Ayar / Configuração Geral

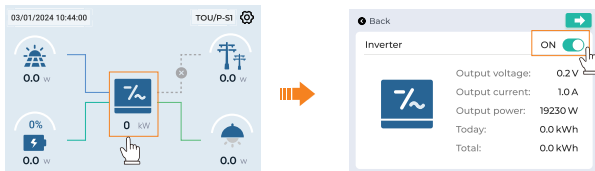
This section covers general settings. For detailed settings, refer to the user manual.

NOTICE!

- The user interface shown is for reference only and may vary depending on your selected settings. Refer to the actual interface.
- Due to product updates, the actual settings may differ. Refer to the actual interface.

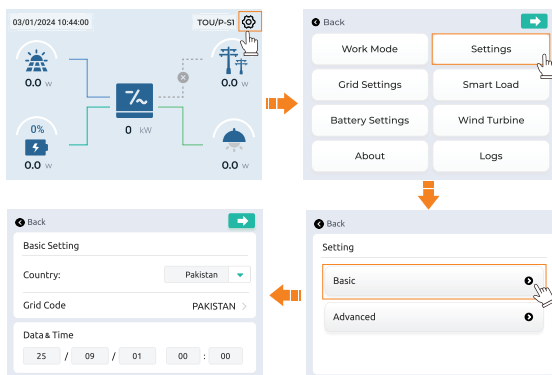
Power-on and Power-off

On the LCD screen, tap the inverter icon, and then enable or disable the system switch.



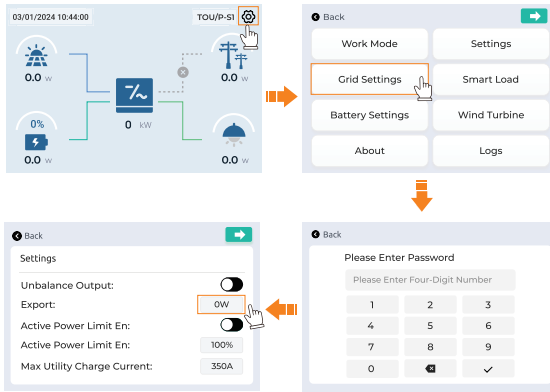
Basic Settings

Configure the basic settings including the country, grid code, and time.

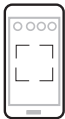


Export Control Settings

This function controls the inverter's power output to the grid. Go to  > **Grid Settings**, and enter the password (default: **2 0 1 4**) to access the settings. If you do not want to export power to the grid, set **Export** to **0W**.



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Scan the QR code to download the SolaXCloud app. Follow the tutorial or online documentation on the SolaXCloud app to complete the configuration.

Warranty Registration

Please visit the website: <https://www.solaxcloud.com/user-center/> to complete the warranty registration. For more detailed warranty terms, please visit SolaX official website: www.solaxpower.com.



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