



X3-NEO-LV

5 kW / 8 kW / 10 kW /

12 kW / 15 kW / 20 kW

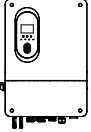
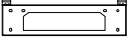
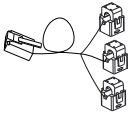
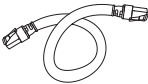
Installation Manual

Version 2.0

www.solaxpower.com



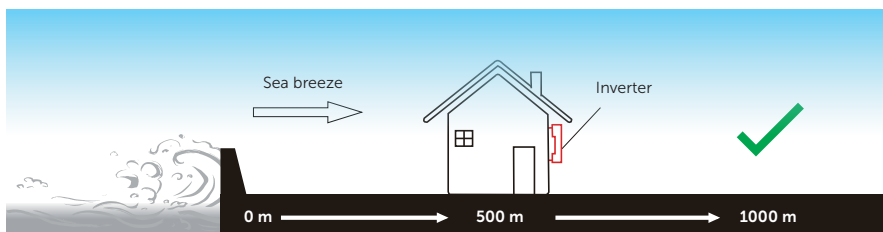
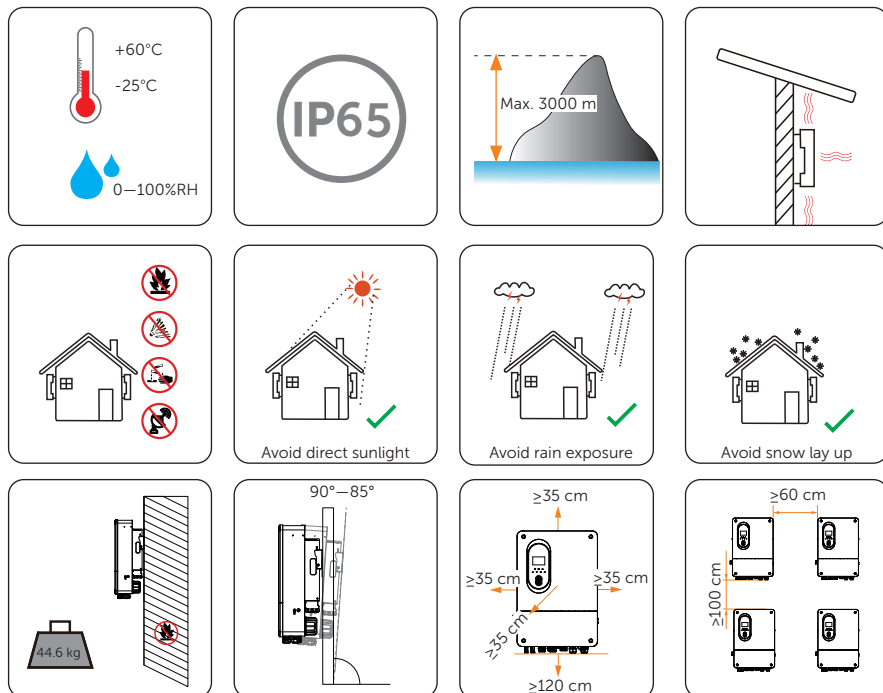
Packing List / Packliste / Liste du matériel livré / Lista de piezas / Lista da embalagem / Paklijst / Contenuto della confezione / Zawartość opakowania / Seznam balení / Packlista / Listă de ambalare / Опаковъчен лист / Pakkeliste / Λίστα συσκευασίας / Pakkeleht / Pakkausluettelo / Popis pakiranja /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

 Inverter x 1	 Bracket x 1	 A B Positive PV connector x 4 ¹ Positive PV pin contact x 4 ¹	 C D Negative PV connector x 4 ¹ Negative PV pin contact x 4 ¹
 CT x 1	 F Battery temperature sensor x 1 ²	 G Disassembling tool for PV terminal x 1	 H I Self-tapping screw x 6 Expansion tube x 6
 J M6*14 Screw x 1	 K M6*20 Screw x 2	 L OT terminal (21.8*8 mm) x 15 ³	 M OT terminal (32.8*16 mm) x 1
 N Battery connection terminal (43.8*17.8 mm) x 4	 O P RJ45 connector x 1 RJ45 terminal x 8	 Q Decorative buckle x 2	 R Parallel network cable x 1
 S Document	 Dongle (optional) x 1 ⁴	 Meter (optional) x 1	

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 Grid terminal, 5 pcs for GEN terminal, 5 pcs for EPS terminal.
- ^{"4"}: For installation of the dongle, see its documentation.

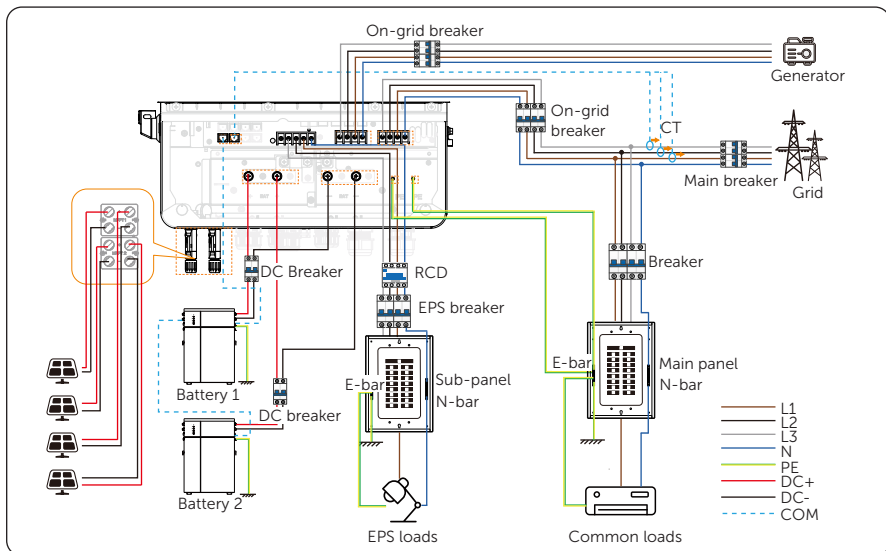
Mounting Location / Montageort / Emplacement de montage / Ubicación de montaje / Localização de montagem / Bevestigingslocatie / Posizione di montaggio / Lokalizacja miejsca montażu / Montážní místo / Monterings plats / Locație de montare / Место за монтаж / Monteringssted / Τοποθεσία στερέωσης / Paigalduskoht / 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

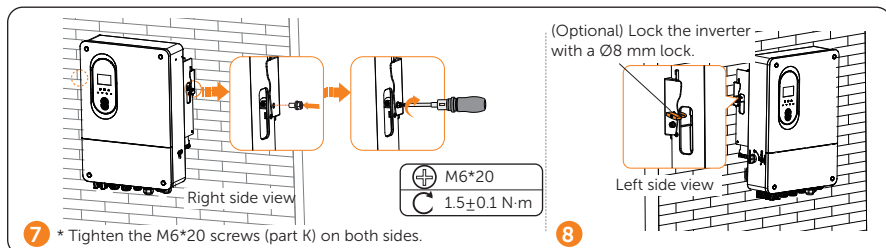
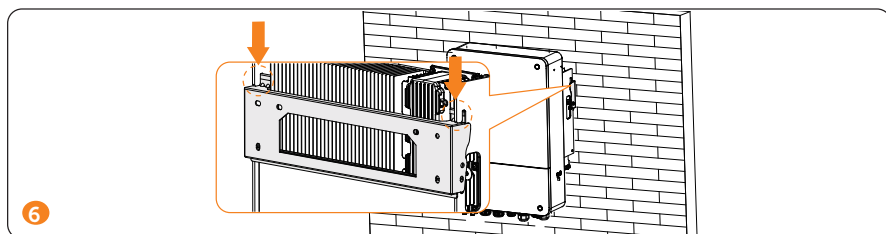
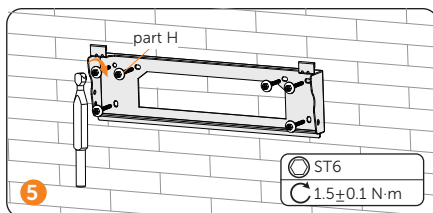
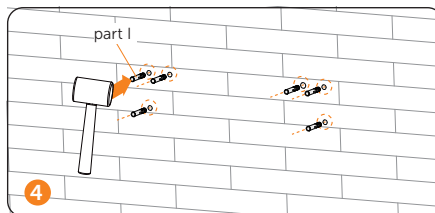
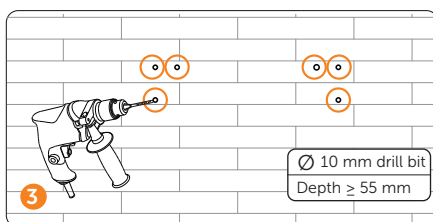
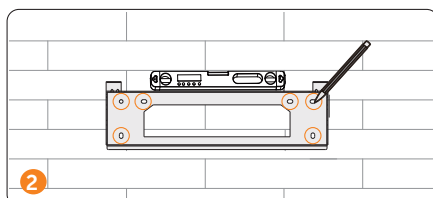
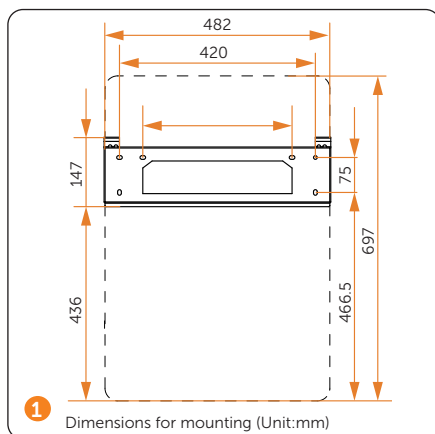
- Breaker recommended for off-grid connection (only EPS)

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

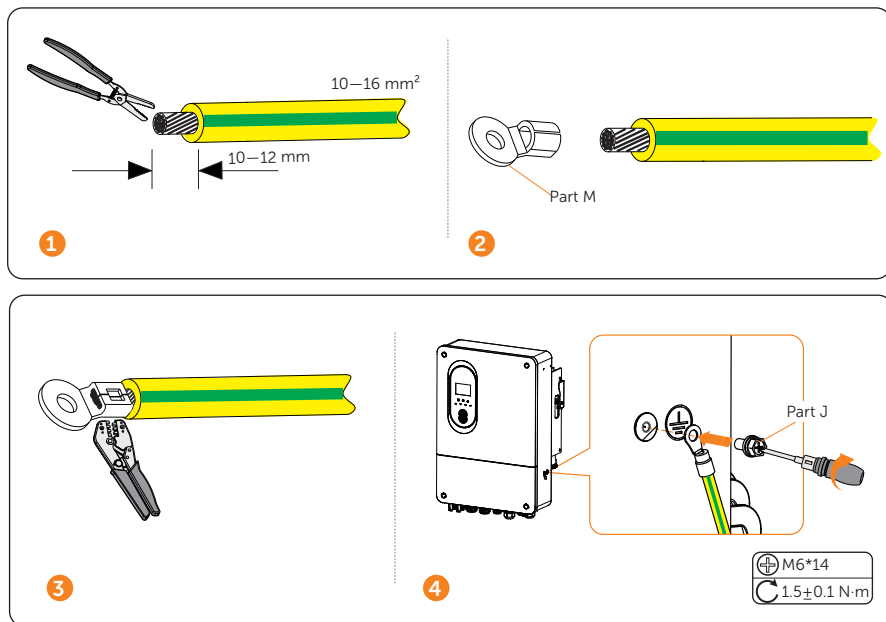
- Breaker recommended for battery connection

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

Mechanical Installation / Mechanische Installatie / Installation mécanique / Instalación mecánica / Instalação mecânica / Mechanische installatie / Installazione meccanica / Instalacja mechaniczna / Mechanická instalace / Mekanisk installation / Instalare mecanică / Механичен монтаж / Mekanisk installation / Μηχανική εγκατάσταση / Mehaaniline paigaldus / Mekaaninen asennus / Mehanička ugradnja / Mechanikai telepítés / Mechaninis montavimas / Mehāniskā uzstādīšana / Mechanická inštalácia / Mehanska namestitev / Mekanik Kurulum / Instalação Mecânica

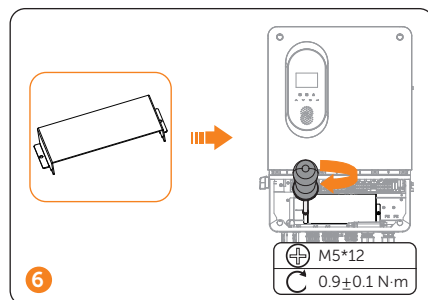
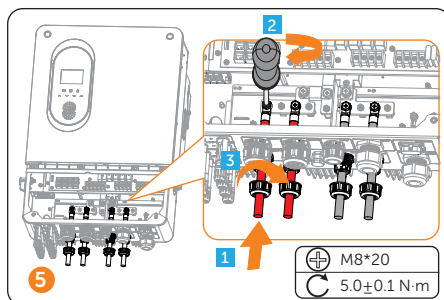
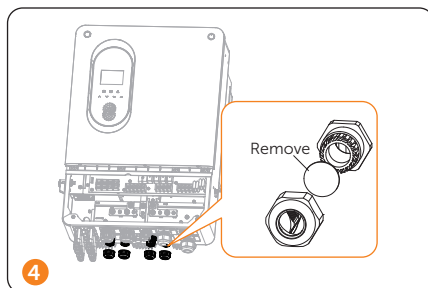
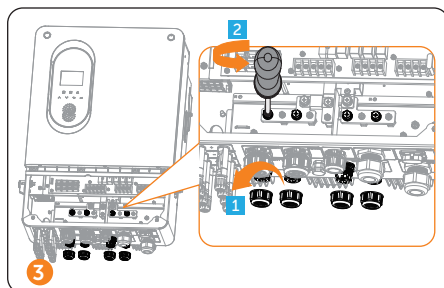
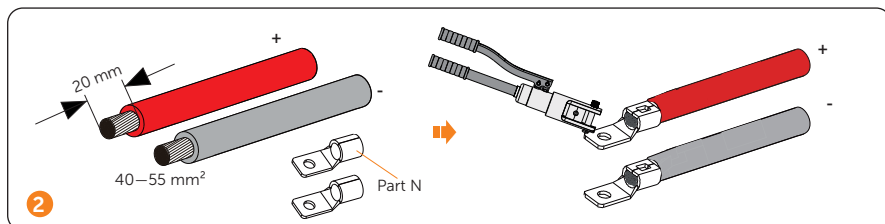
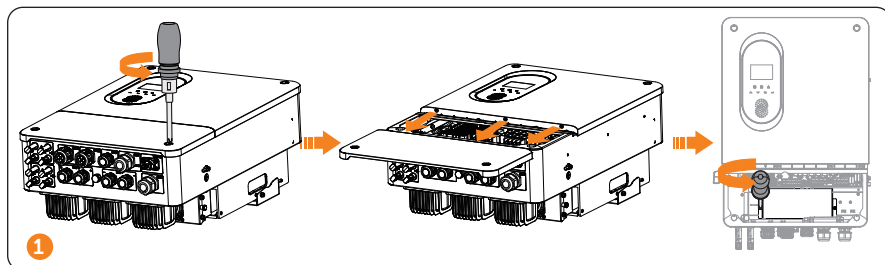


PE Connection / Schutzerdungs-Anschluss / Connexion PE / Conexión PE / Ligação à Terra / PE-aansluiting / Collegamento PE / Połączenie PE / PE připojení / PE-anslutning / Conexiune PE / PE връзка (земя) / Jordforbindelse / Σύνδεση PE / PE ühendus / PE-yhteys / PE priključak / PE bekötés / PE (apsauginio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



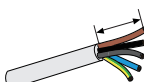
Battery Connection / Batterieanschluss / Branchement de la batterie / Conexión de la batería / Ligaçao da bateria / Batterij-aansluiting / Collegamento della batteria / Połączenie akumulatora / Pripojení baterie / Batterianslutning / Conectare baterie / Връзка с батерията / Batteritilslutning / Σύνδεση μπαταρίας / Ακυühendus / Akun liitântä / Priključak za bateriju / Akkumulátor 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 / Maiņstrāvas puses savienojums / Pripojenie na strane striedavého prúdu / AC stranska povezava / AC Yan Bağlantı / Conexão do Lado CA

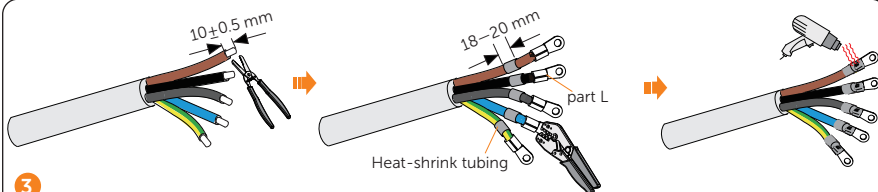
	5/8/10 kW	12kW	15/20 kW
Grid connection (with EPS)	6–7 mm ²	6–8 mm ²	8–10 mm ²
Grid connection (without EPS)	6–7 mm ²	6–8 mm ²	8–10 mm ²
Off-grid connection (only EPS)	6 mm ²	6 mm ²	6 mm ²
GEN	6–7 mm ²	6–8 mm ²	8–10 mm ²



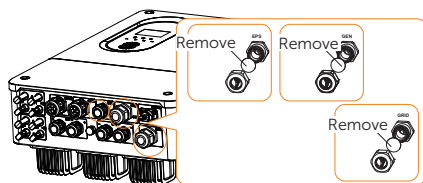
Length (mm)	L1	L2	L3	N	PE
Grid	140	140	140	140	55
GEN	120	120	120	120	110
EPS	130	130	135	120	140

1

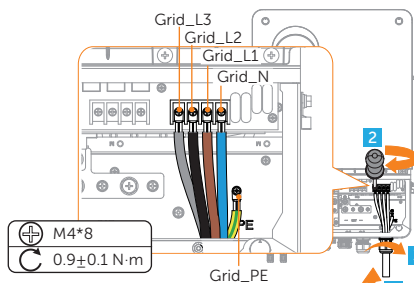
2



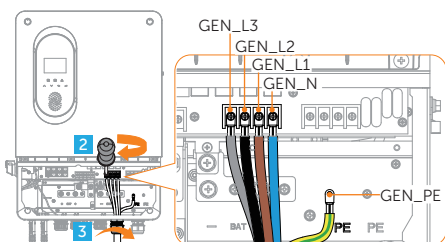
3



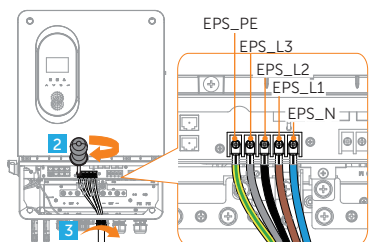
4



5 Grid connection

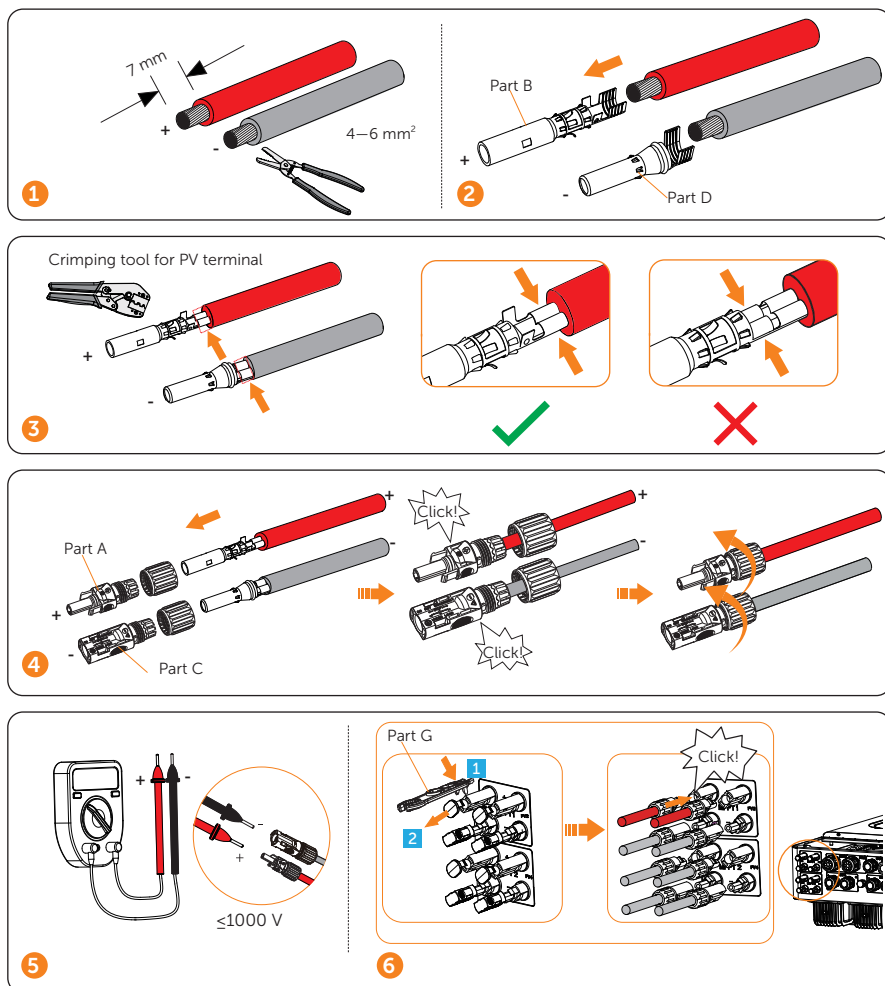


6 GEN connection



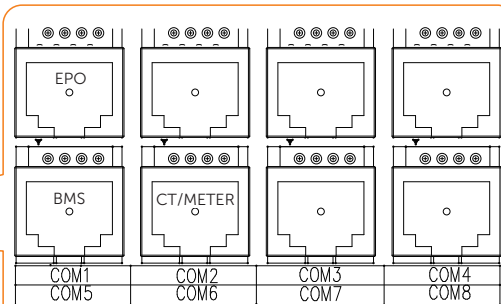
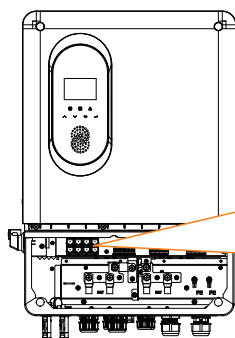
7 EPS connection

DC Side Connection / Gleichstrom-seitiger Anschluss / Connexion côté CC / Conexión lateral de CC / Ligaçāo lateral CC / Aansluiting gelijkspanningszijde / Collegamento lato CC / Potāczenie po stronie DC / Boční pŕipojení stejnosměrného proudu / Anslutning på DC-sidan / Conexiune laterală c.c. / Свързване от DC страната / DC-sidetilslutning / Πλαϊνή σύνδεση DC / Alalisvoolupoolne ühendus / DC-puolen liitāntā / Priklučak 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 / Ligaçã o à Comunicaçã o / Communicatie-aansluiting / Collegamento comunicazione / Potàczenie komunikacyjne / Komunikační pøipojení / Kommunikationsanslutning / Conexiune de comunica re / Коммуникационная в рьзка / Kommunikationsforbindelse / Σύνδεση επικοινωνίας / Sideùhendus / Tiedonsiirtoliitãntä / Priklučak za komunikaciju / Kommunikaciõs bekõtës / Duomenų ryšys / Sakaru savienojums / Pøipojenie komunikácie / Komunikacijska povezava / Iletişim Bağlantısı / Conexão de Comunicaçã o

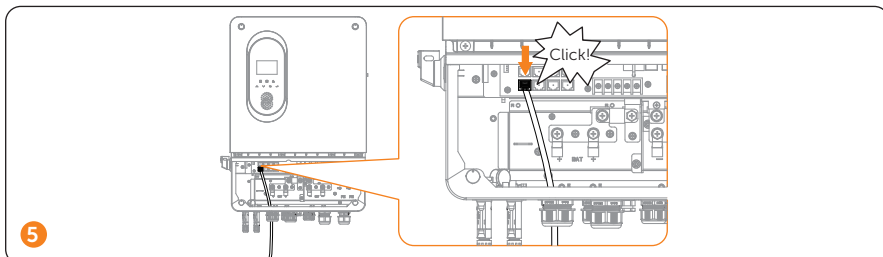
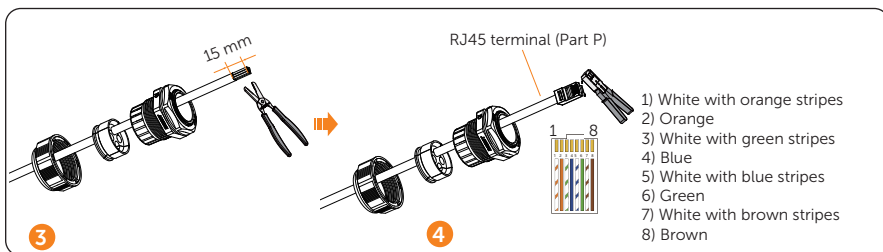
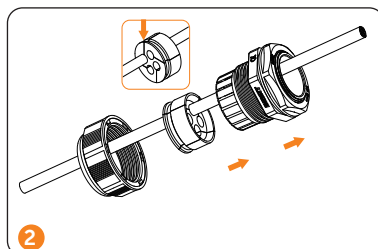
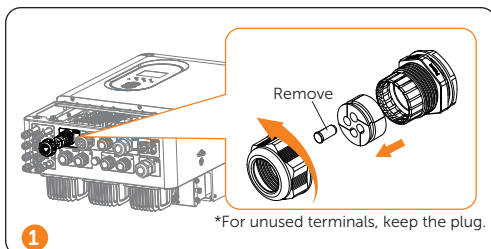
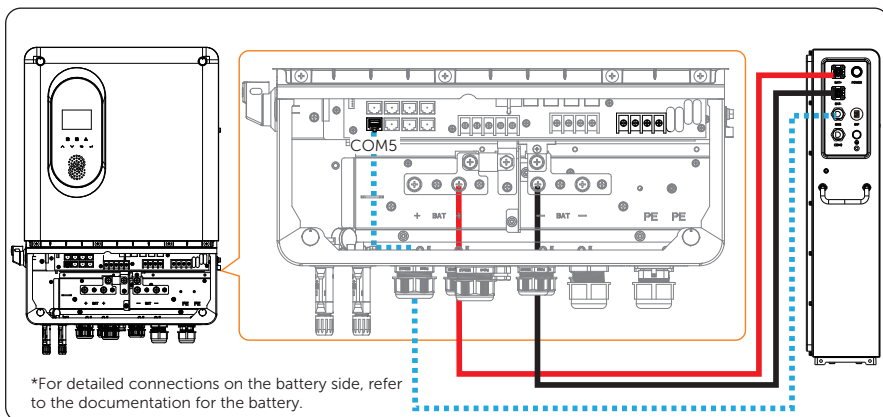
Pin assignment of EPO, CT/METER, BMS



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

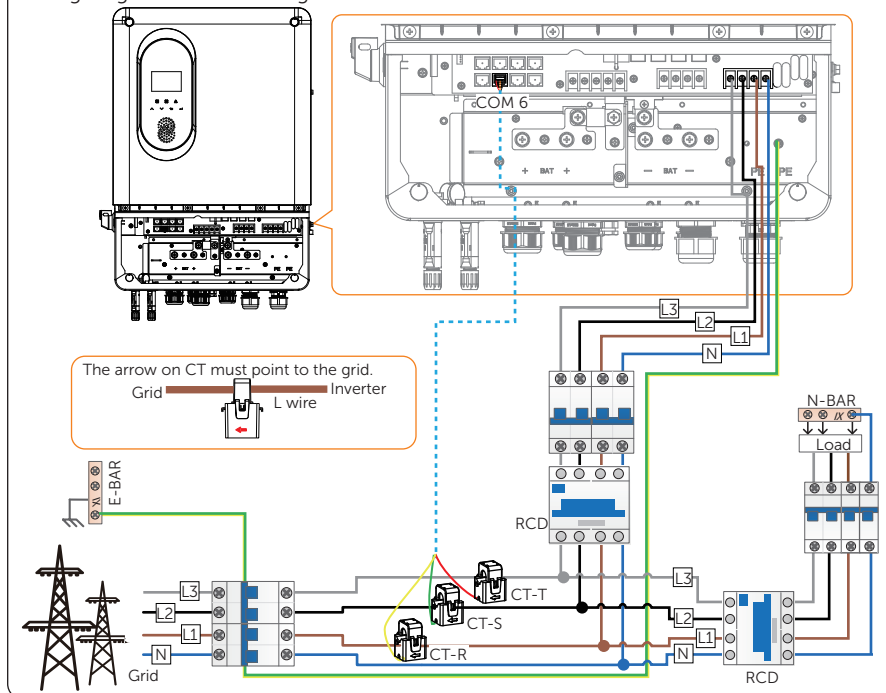
*For pin assignment of other communication ports, refer to the user manual.

BMS Connection (For Lithium-ion Battery)



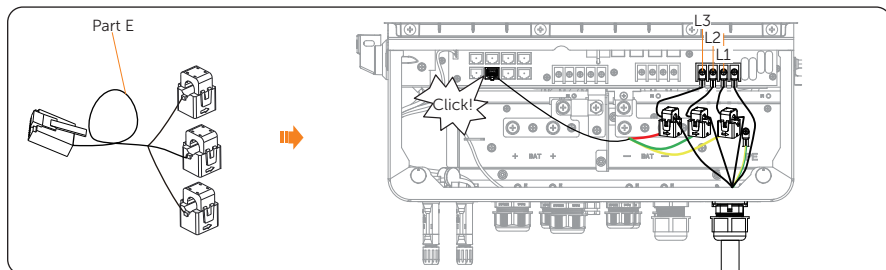
CT/Meter Connection

Wiring diagram of connecting a batch of CTs

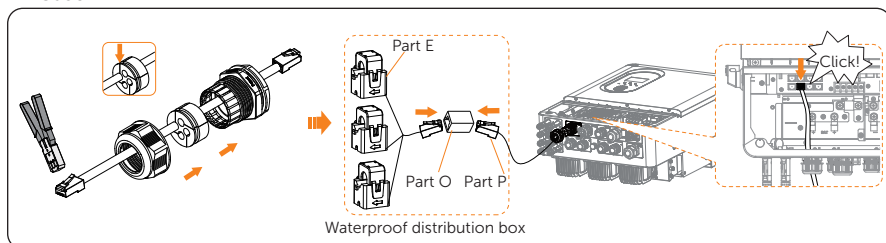


If the distance between the CT and the inverter is ≤ 1.5 m, use Case 1. Otherwise, use Case 2.

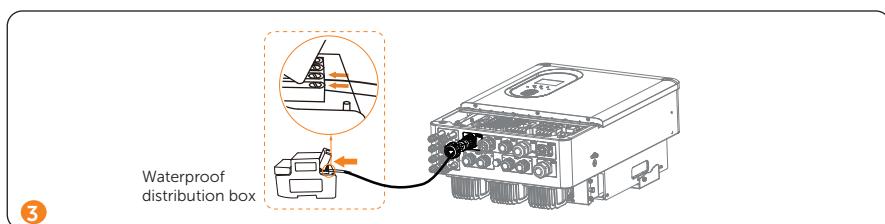
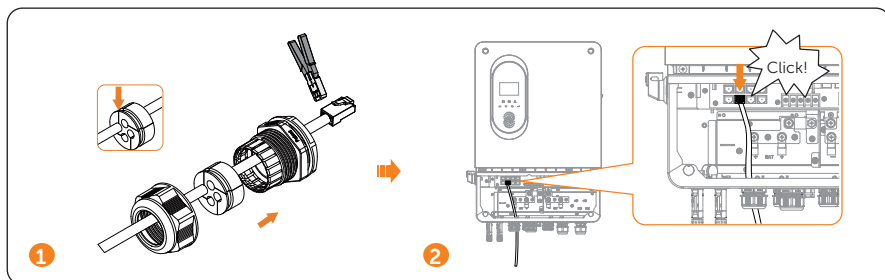
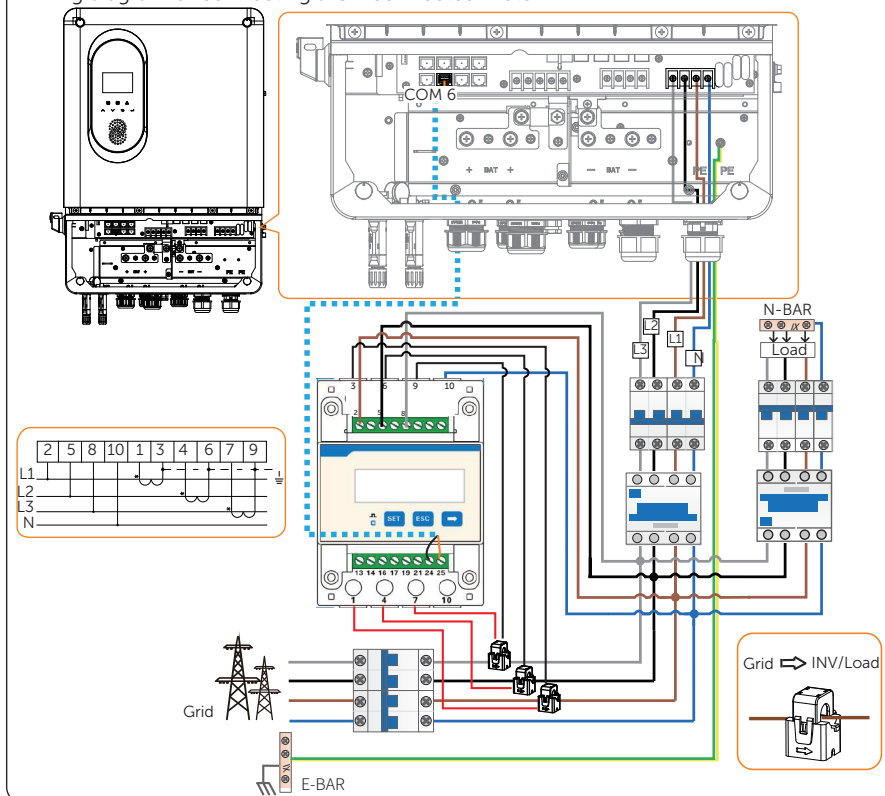
- Case 1



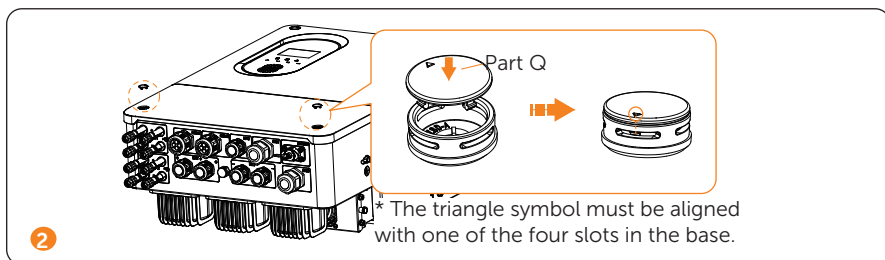
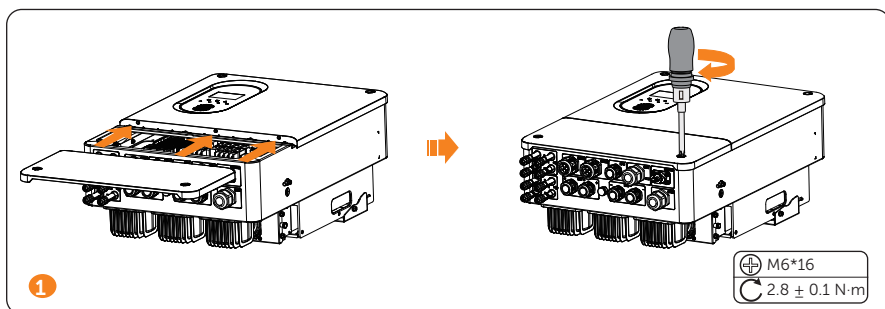
- Case 2



Wiring diagram of connecting a CT-connected meter



Upper Cover Installation



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

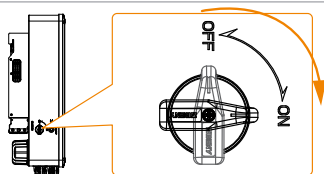
NOTICE!

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

Power-on

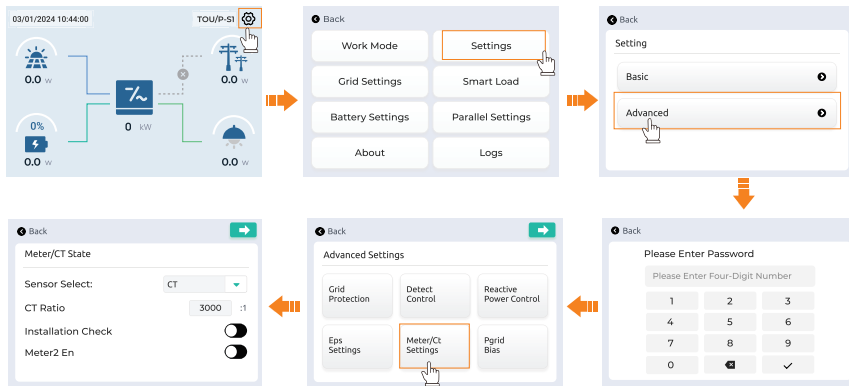
Step Description

1



Select **Meter/Ct Settings** and select the sensor based on actual scene.

2

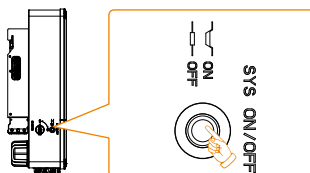


3

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

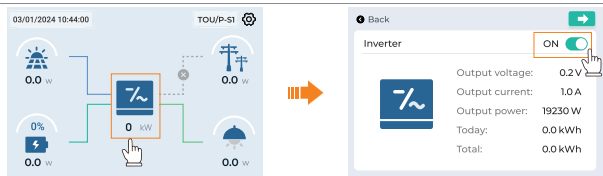
Press the system switch down to the **ON** position.

4



Step Description

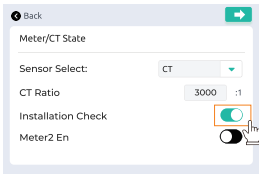
5



6 Wait for the inverter to start up.

Upon the initial power up, it is required to initiate the **Installation Check** to perform a CT check. The setup path matches **Step 2**.

7

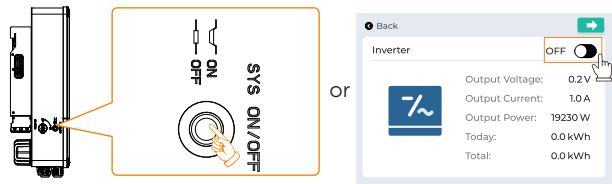


***Installation Check** is available when the CT is connected to the **Grid** terminal. If you connect a meter to the **Grid** terminal, this setting is unavailable, and you must check the meter wiring manually.

Power-off

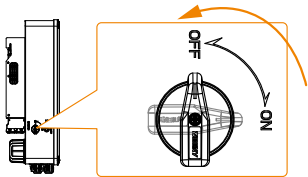
Step Description

1



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

3



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

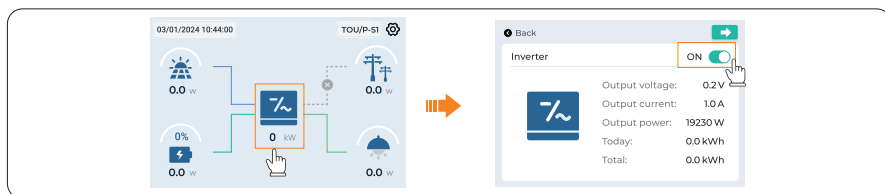
General Settings / Allgemeine Einstellungen / Paramètres généraux / Configuración general / Definição Geral / Algemene instelling / Impostazione generale / Ustawienia ogólne / Obecné nastavení / Generell inställning / Setare general / Обща настройка / Generel indstilling / Γενική τοποθέτηση / Üldine seadistus / Yleiset / Орце поставке / 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!

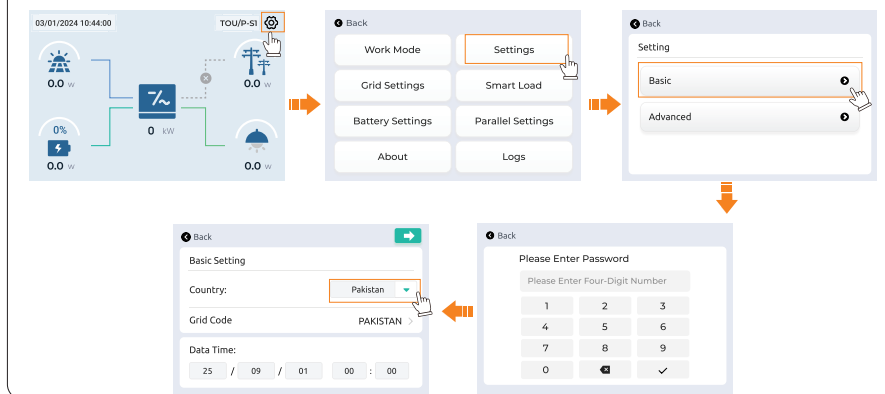
- The user interface shown is for reference only and may vary based on your selected settings. Refer to the actual interface.
- Due to product updates, the actual interface may differ. Refer to the actual interface.

Power-on and Power-off



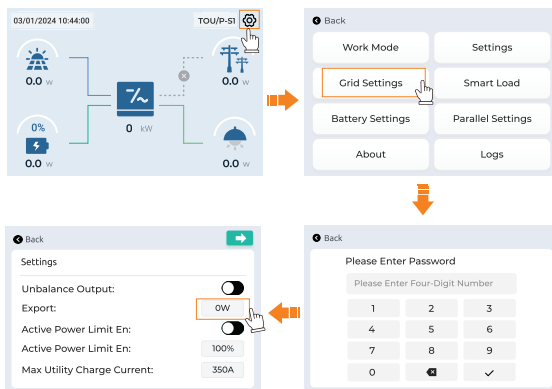
Basic Settings

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



Grid Settings

This function controls the inverter's power output to the grid. If you do not want to feed power to the grid, set **Export** to **0W**.



SolaXCloud Download / SolaXCloud Download / Téléchargement SolaXCloud / Descarga de SolaXCloud / Descarga do SolaXCloud / SolaXCloud Downloaden / SolaXCloud Download / Pobieranie SolaXCloud / Stáhnout SolaXCloud / SolaXCloud-nedladdning / Descărcare SolaXCloud / Изтегляне на SolaXCloud / Hent SolaXCloud / Λήψη SolaXCloud / SolaXCloud'i allalaadimine / SolaXCloudin lataus / Preuzimanje SolaXCloud / SolaXCloud Letöltés / „SolaXCloud” atsisiuntimas / SolaXCloud lejupielāde / Stiahnuť SolaXCloud / Prenesi SolaXCloud / SolaXCloud indirmesi / Download do SolaXCloud



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.



SolaX Power Network Technology (Zhejiang) Co., Ltd.

Add.: No. 278, Shizhu Road, Chengnan Sub-district, Tonglu County,
Hangzhou, Zhejiang, China
E-mail: info@solaxpower.com