SOLAX



X1-Lite-LV

8 kW / 10 kW / 12 kW

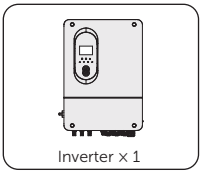
Installation Manual

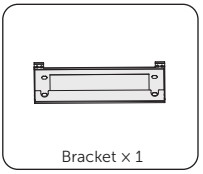
Version 1.0

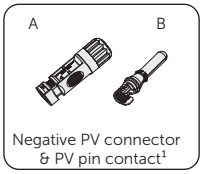
www.solaxpower.com

eManual in the QR code or at
www.solaxpower.com

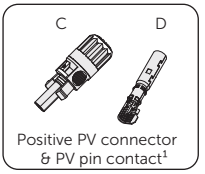
Packing List / Packliste / Liste du matériel livré / Lista de piezas / Lista da embalagem / Paklijst / Contenuto della confezione / Zawartość opakowania / Seznam balení / Packlista / Listă de ambalare / **Опаковъчен лист** / Pakkeliste / **Λίστα συσκευασίας** / Pakkeleht / Pakkausluettelo / Popis pakiranja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


Inverter × 1

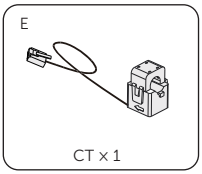

Bracket × 1



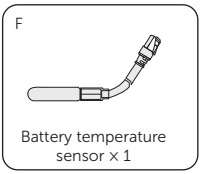
Negative PV connector & PV pin contact[1]



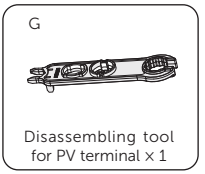
Positive PV connector & PV pin contact[1]



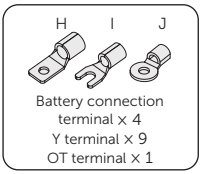
CT × 1



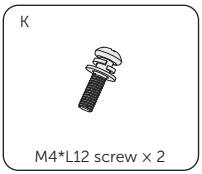
Battery temperature sensor × 1



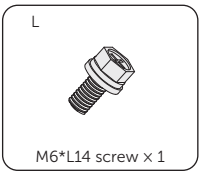
Disassembling tool for PV terminal × 1



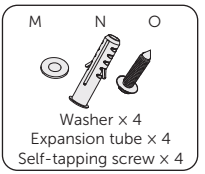
Battery connection terminal × 4
Y terminal × 9
OT terminal × 1



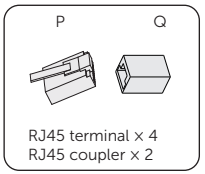
M4*L12 screw × 2



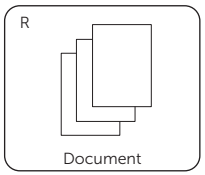
M6*L14 screw × 1



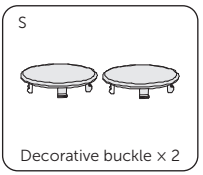
Washer × 4
Expansion tube × 4
Self-tapping screw × 4



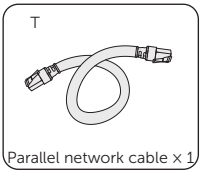
RJ45 terminal × 4
RJ45 coupler × 2



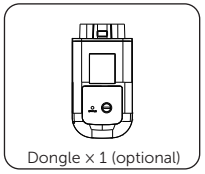
Document



Decorative buckle × 2



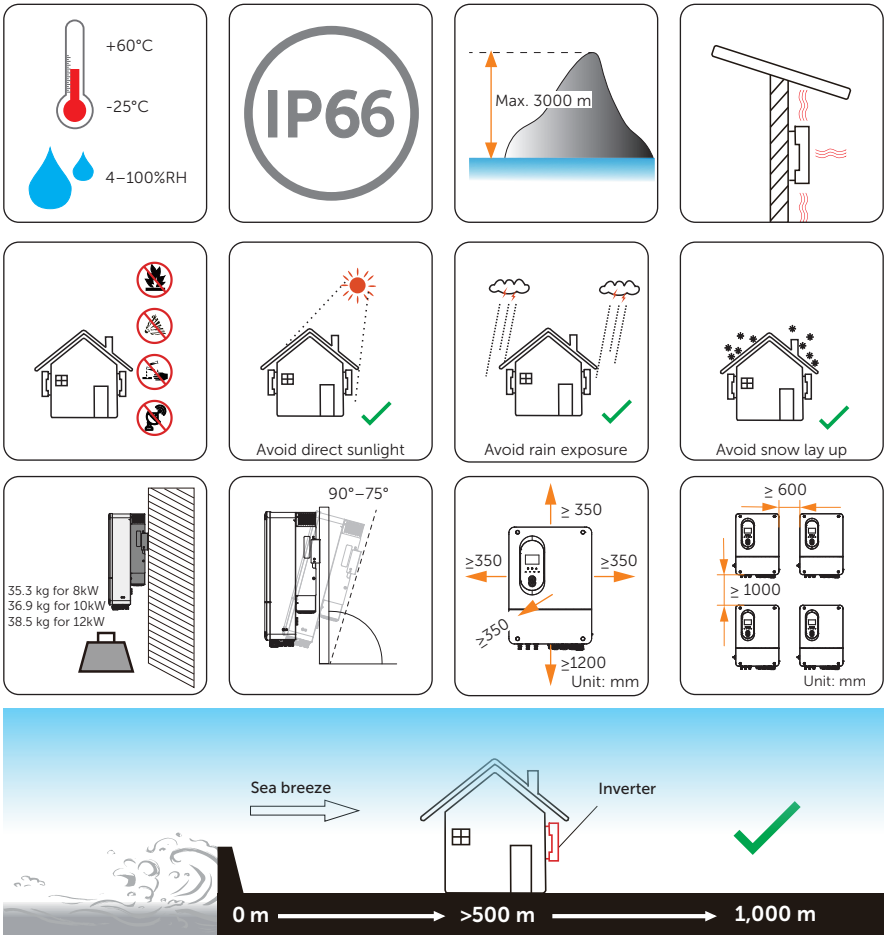
Parallel network cable × 1


Dongle × 1 (optional)

Note:

- Refer to the actual delivery for the optional accessories.
- "1": 4 pairs for 8 or 10 kW inverters and 6 pairs for 12 kW inverter.

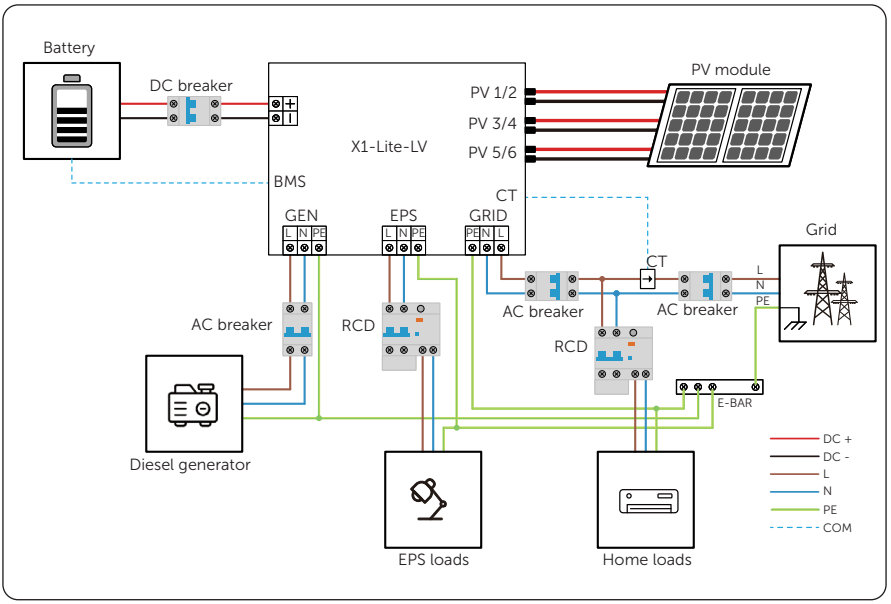
Mounting Location / Montageort / Emplacement de montage / Ubicación de montaje / Localização de montagem / Bevestigingslocatie / Posizione di montaggio / Lokalizacja miejsca montażu / Montážní místo / Monterings plats / Locație de montare / **Място за монтаж** / Monteringssted / **Τοποθεσία στερέωσης** / 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	X1-Lite-8K-LV	X1-Lite-10K-LV	X1-Lite-12K-LV
On-grid breaker	60 A	80 A	100 A

- Breaker recommended for grid connection (without EPS)

Model	X1-Lite-8K-LV	X1-Lite-10K-LV	X1-Lite-12K-LV
On-grid breaker	50 A	60 A	80 A

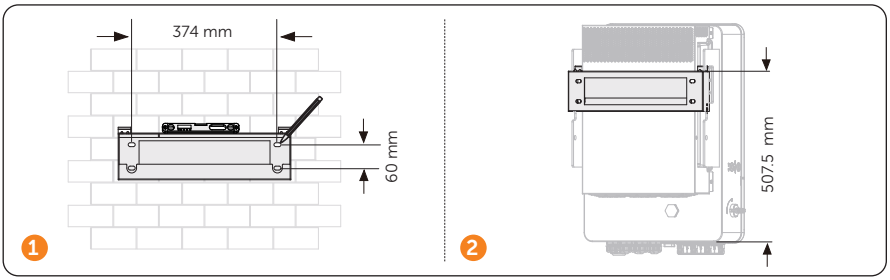
- Breaker recommended for off-grid connection (only EPS)

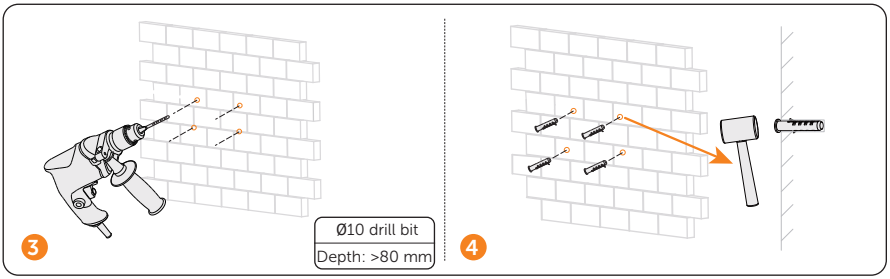
Model	X1-Lite-8K-LV	X1-Lite-10K-LV	X1-Lite-12K-LV
Off-grid breaker	50 A	60 A	80 A

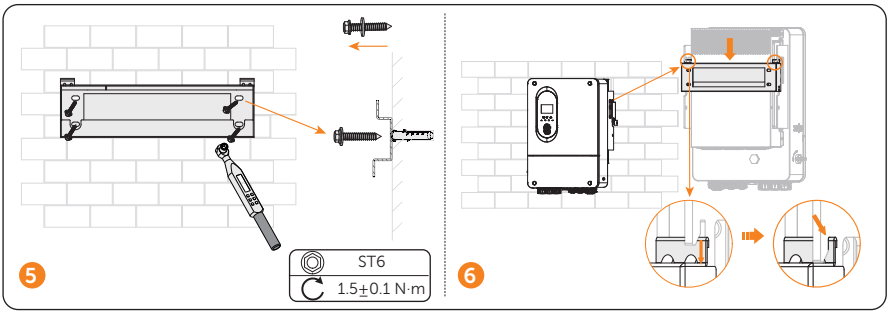
- Breaker recommended for GEN connection

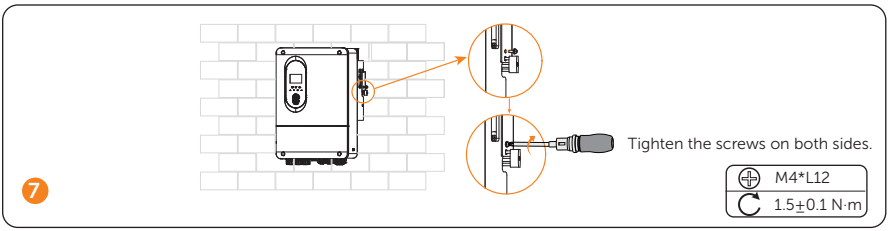
Model	X1-Lite-8K-LV	X1-Lite-10K-LV	X1-Lite-12K-LV
Breaker	60 A	80 A	100 A

Mechanical Installation / Mechanische Installation / 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

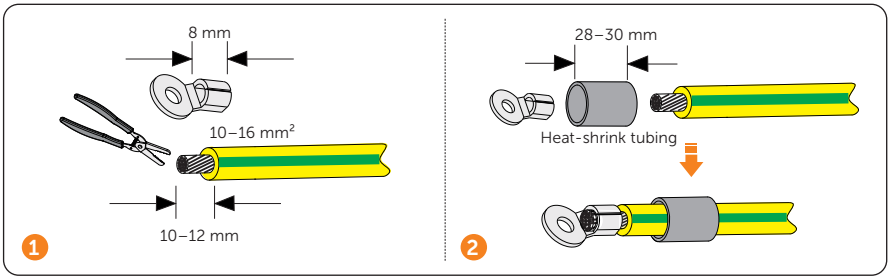


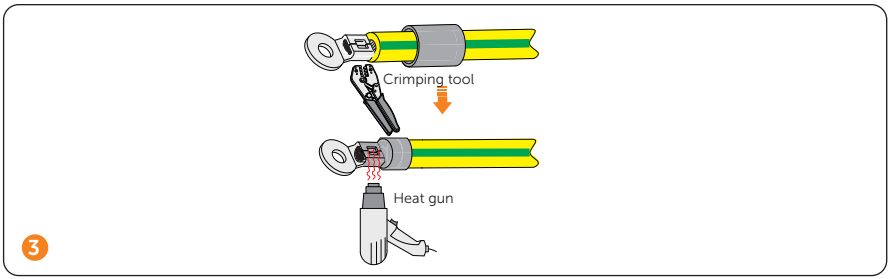


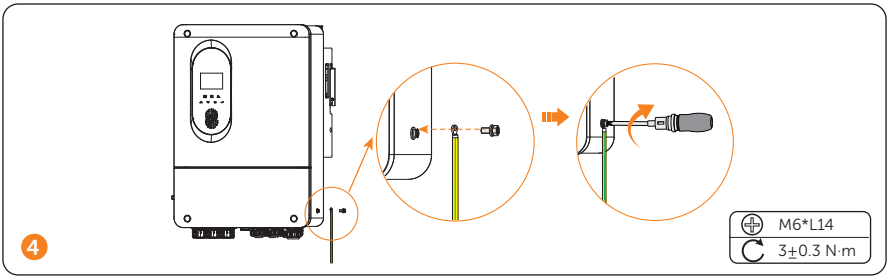




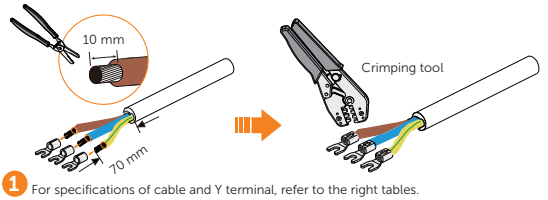
PE Connection / Schutzerdungs-Anschluss / Connexion PE / Conexión PE / Ligação à Terra / PE-aansluiting / Collegamento PE / Połączenie PE / PE připojení / PE-anslutning / Conexiune PE / PE **връзка (земя)** / Jordforbindelse / **Σύνδεση** PE / PE ühendus / PE-yhteys / PE priključak / PE bekötés / PE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







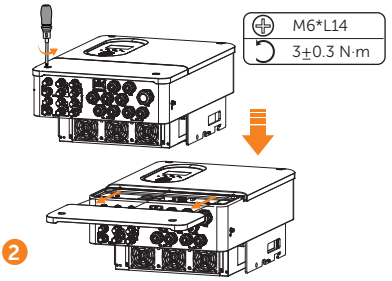
Grid and EPS Connection / Netz- und EPS-Verbindung / Branchement Réseau et EPS / Conexión de red y EPS / Ligação à Rede e Off-grid / Aansluiting op het net en EPS / Collegamento GRID e EPS / Połączenie z siecią i EPS / Připojení k síti a EPS / Elnäts- och EPS-anslutning / Conectare la rețea și EPS / **Връзка с мрежата и аварийното захранване** / Elnet- og EPS-tilslutning / **Σύνδεση στο δίκτυο και σε Σύστημα ηλεκτρικής ενέργειας** (EPS) / Võrgu- ja EPS-ühendus / Verkon ja EPS:n liitäntä / Priključak mreže i EPS priključak / Rácsos és EPS bekötés / Tinklo ir EPS jungtis / Tīkla un EPS savienojums / Pripojenie do siete a k núdzovému napájaniu EPS / Povezava z omrežjem in EPS zasilno napajanje / Şebeke ve EPS Bağlantı / Conexão de Rede e EPS



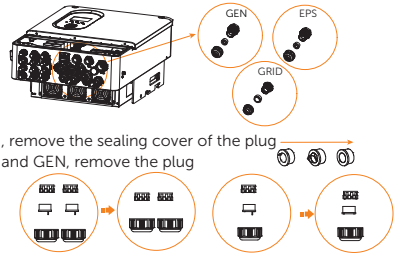
1 For specifications of cable and Y terminal, refer to the right tables.

Situations	8 kW	10 kW	12 kW
On-grid (with EPS)	10 mm²	16 mm²	16 mm²
On-grid (without EPS)	8 mm²	10 mm²	16 mm²
Off-grid (Only EPS)	8 mm²	10 mm²	16 mm²

Item	8 kW	10/12 kW
Y terminal	10 mm²	16 mm²
Cable for GEN	10 mm²	16 mm²

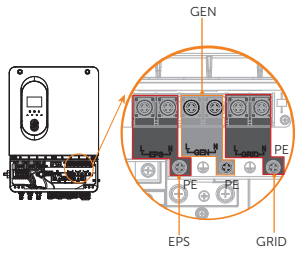


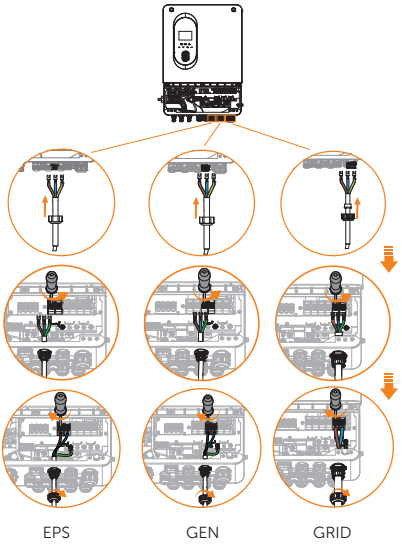
2



For Grid, remove the sealing cover of the plug
For EPS and GEN, remove the plug

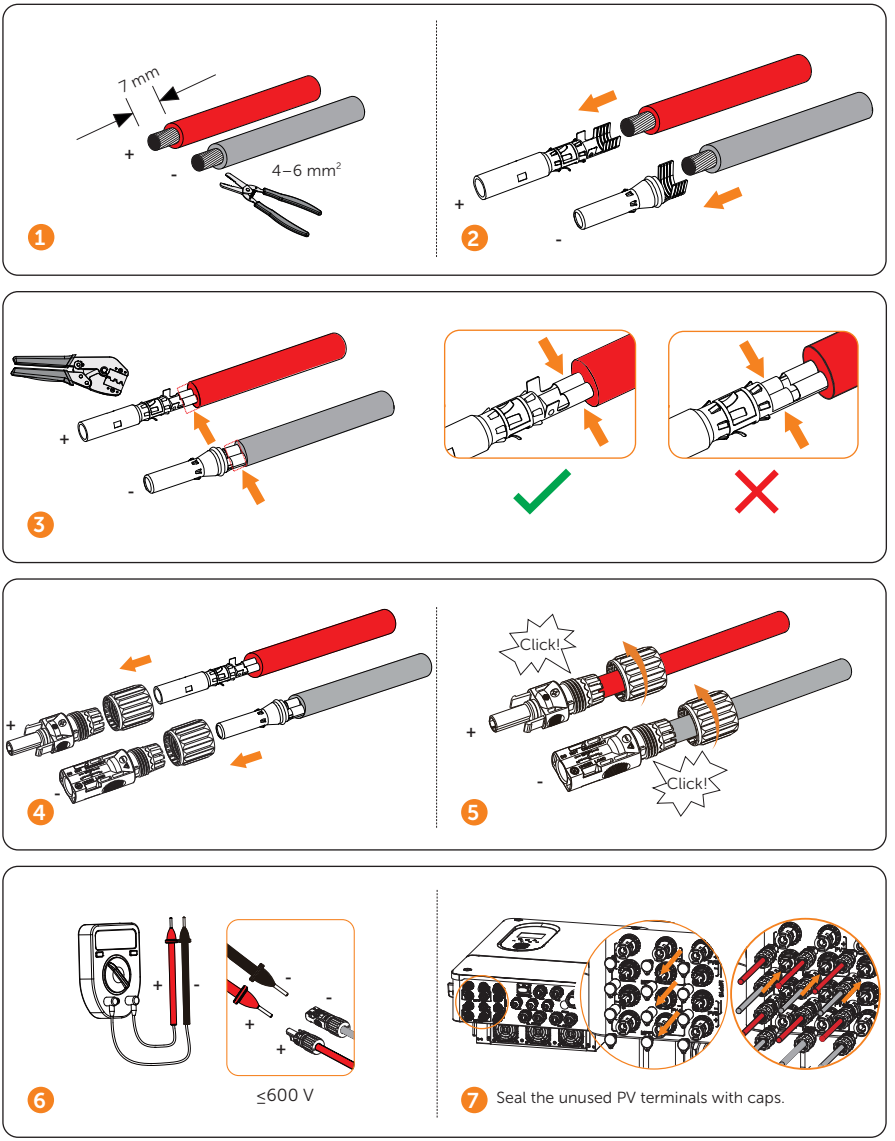
*It is recommended to seal unused plugs with fireproof putty.



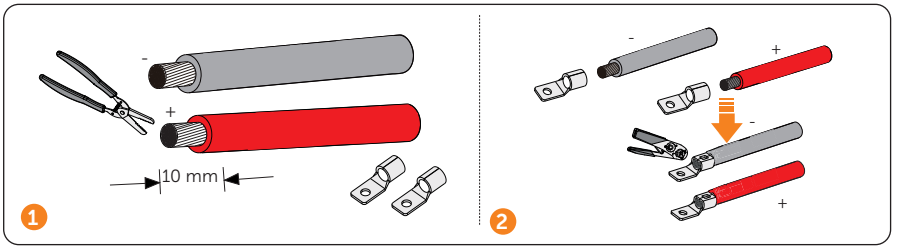


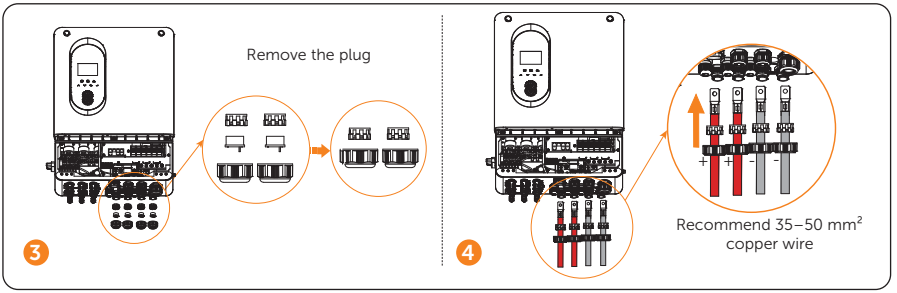
3

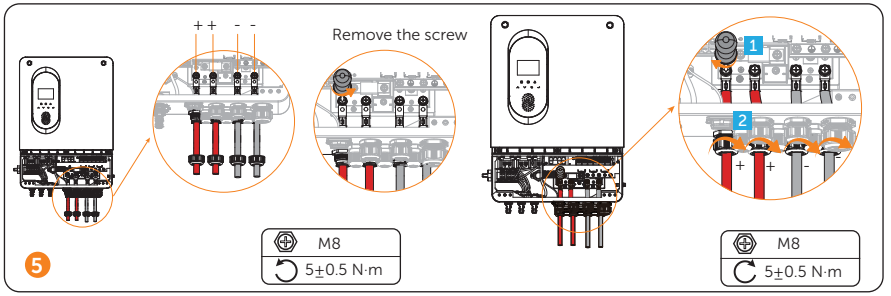
PV Connection / PV-Anschluss / Connexion PV / Conexión FV / Ligação PV (Fotovoltaica) / PV-aansluiting / Collegamento PV / Połączenie PV / Připojení FV / Anslutning av solcellsanläggning / Conexiune PV / **Връзка с** PV / PV-tilslutning / **Σύνδεση φωτοβολταϊκού** / PV-ühendus / PV-liitäntä / Fotonaponski priključak / PV bekötés / Fotovoltinė jungtis / PV savienojums / Pripojenie fotovoltaiky (FV) / Povezava fotonapetostnega kabla (PV) / PV Bağlantısı / Conexão PV



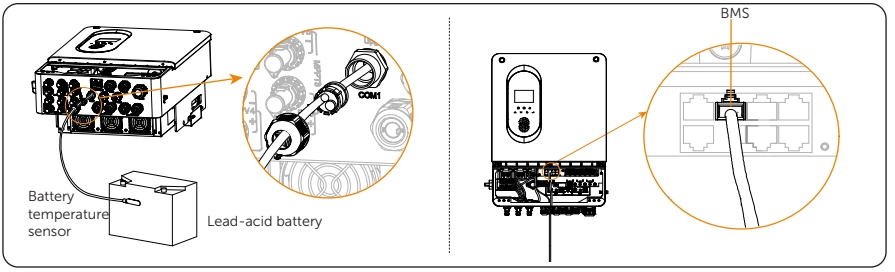
Battery Connection / Batterieanschluss / Branchement de la batterie / Conexión de la batería / Ligação da bateria / Batterij-aansluiting / Collegamento della batteria / Połączenie akumulatora / Připojení baterie / Batterianslutning / Conectare baterie / **Връзка с батерията** / Batteritilslutning / **Σύνδεση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



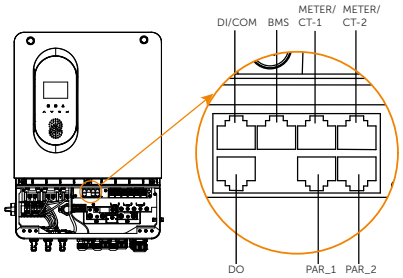




Battery temperature sensor connection



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

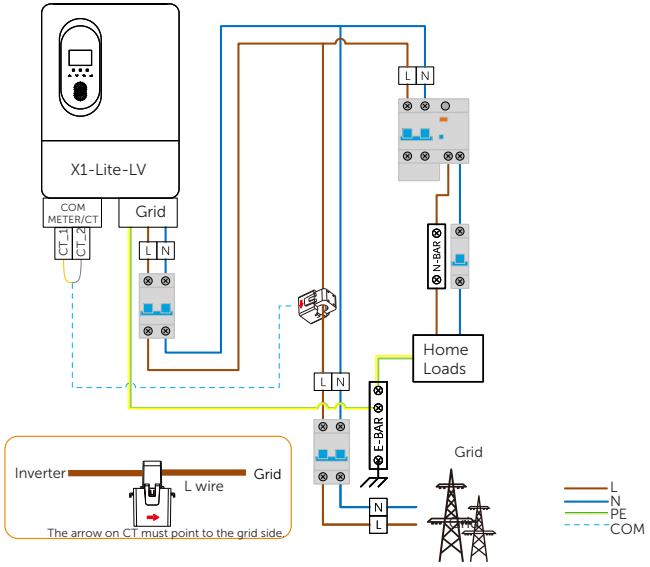


Pin assignment of Meter/CT-1, Meter/CT-2 and BMS

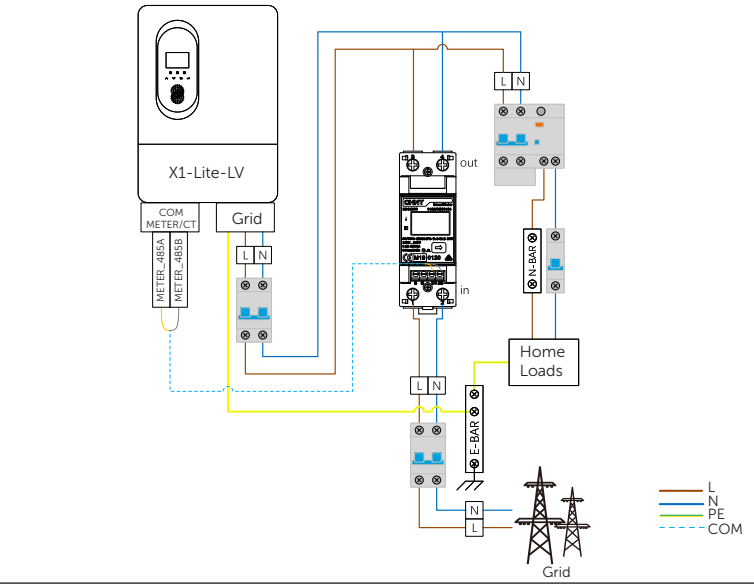
Assignment	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Meter/CT-1	/	/	CT1_1	METER_485A	METER_485B	CT1_2	/	/
Meter/CT-2	/	/	CT2_1	METER_485A	METER_485B	CT2_2	/	/
BMS	BMS_ 485B	BMS_ 485A	GND	BMS_CANH	BMS_CANL	/	BMS_ WAKEUP	BAT_TEMP

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

Wiring diagram of CT

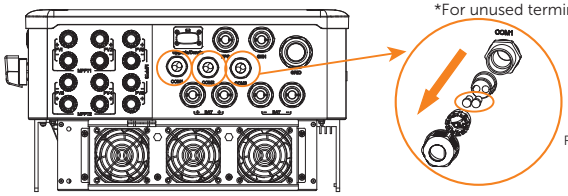


Wiring diagram of meter

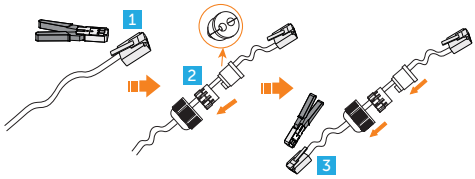


* Only one of the Meter and CT connections can be selected in the same METER/CT port. Meter cable goes to pin terminal 4 and 5; CT cable goes to pin terminal 3 and 6.
* Refer to user manual for other communication connections.

CT/Meter connection steps

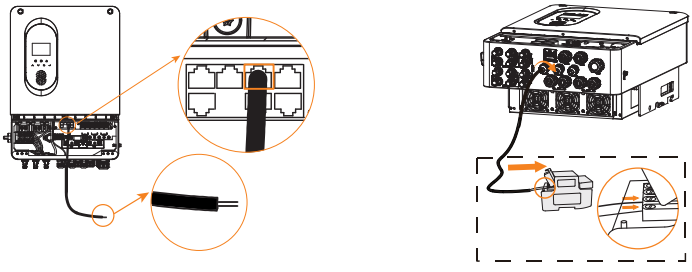


1 * For Communication connection, you can select any port from COM 1, COM 2 and COM3.

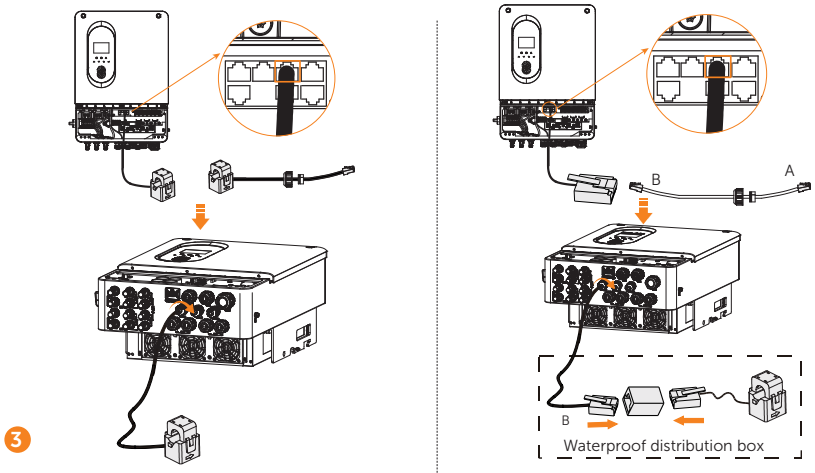


* For CT connection without RJ45 coupler, there is no need to crimp RJ45 terminal.
* For CT connection with RJ45 coupler, prepare an extra network cable or make a network cable by yourself (step 1, 2, and 3).
2 * For Meter connection, crimp only one RJ45 terminal (step 1 and 2).

Meter connection



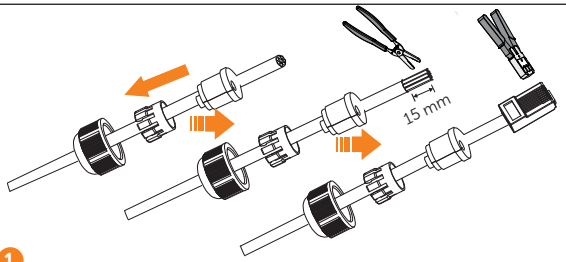
CT connection



CT connection without RJ45 coupler

CT connection with RJ45 coupler

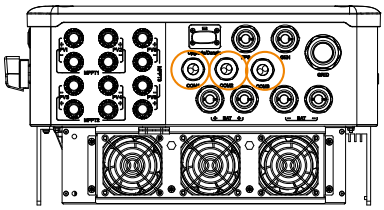
DI/COM, BMS, DO port connection

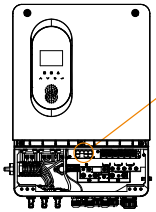


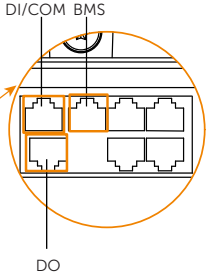


1) White with orange stripes
2) Orange
3) White with green stripes
4) Blue
5) White with blue stripes
6) Green
7) White with brown stripes
8) Brown

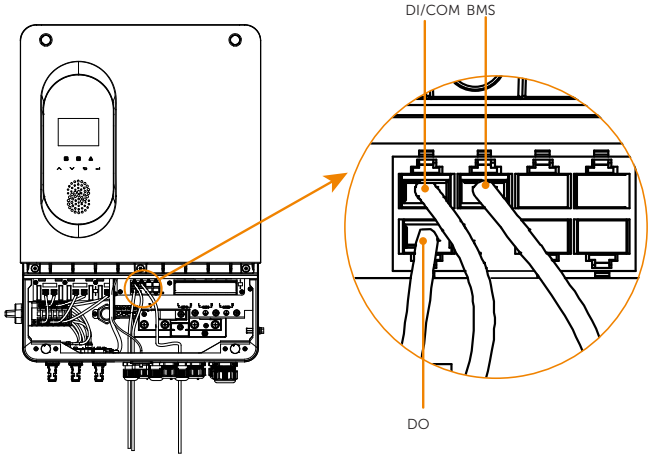
1





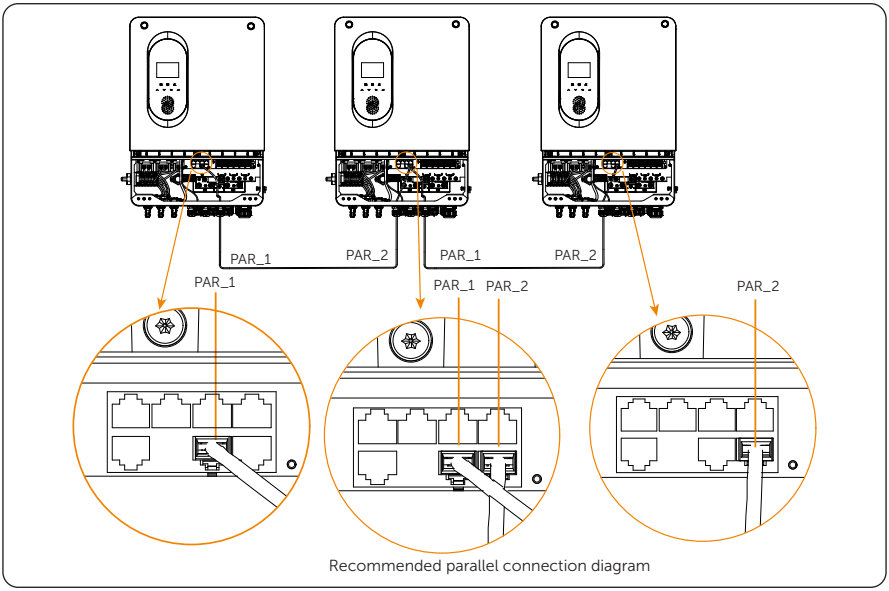


2 * For communication connection, you can select any port from COM 1, COM 2 and COM3.



3

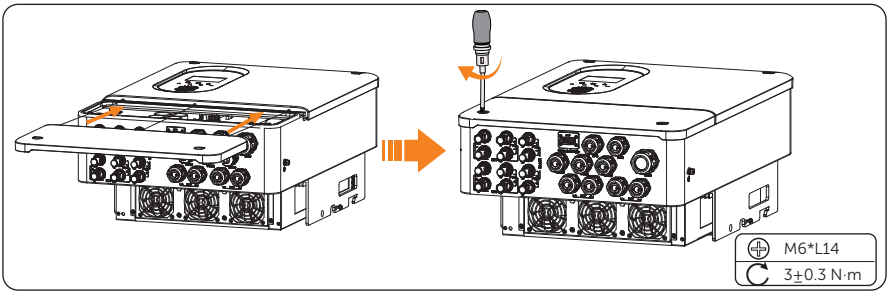
Parallel port connection

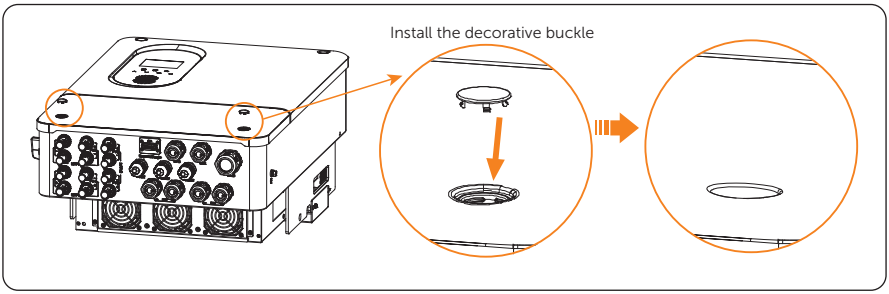


Recommended parallel connection diagram

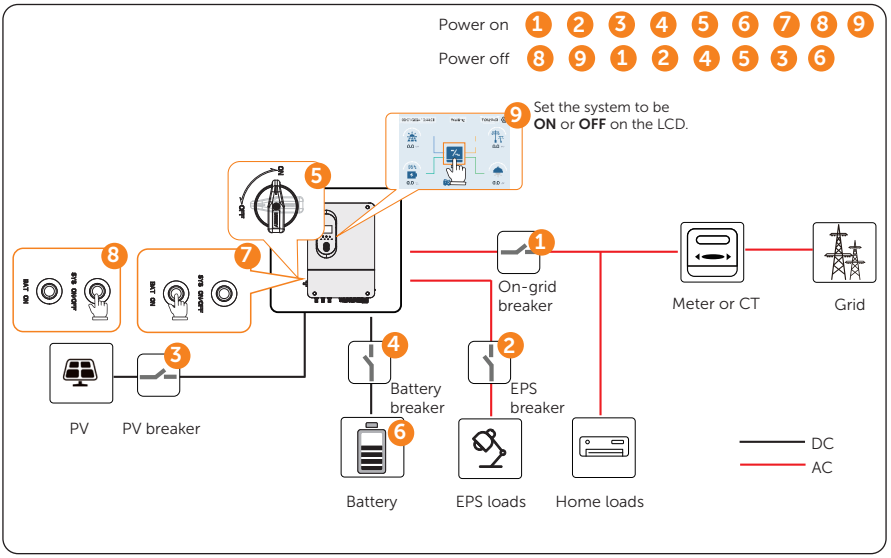
* Parallel network cable is in the accessory bag.

Close the lower cover





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 ieslēgšana/izslēgšana / Napájanie zapnuté/vypnuté / Vklop/izklop / Güç Açık/Kapalı / Ligar/Desligar



* For steps 6 and 7, you should note:

- if PV and Grid are not connected but the battery is connected, execute steps 6 and 7 for SolaX lithium battery, but only step 7 for lead acid battery. For instructions on how to start the battery, refer to the corresponding manual.
- if PV or Grid is connected, skip over steps 6 and 7.

* For instructions on how to start the PV, refer to the corresponding manual.

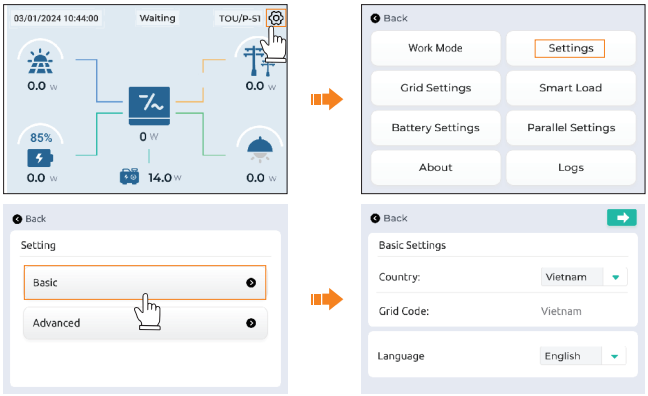
General Setting / Allgemeine Einstellungen / Paramètres généraux / Configuración general / Definição Geral / Algemene instelling / Impostazione generale / Ustawienia ogólne / Obecné nastavení / Generell inställning / Setare general / Обща настройка / Generel indstilling / Γενική τοποθέτηση / Üldine seadistus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

1 System ON/OFF

Tap the inverter icon to turn on/off the system.

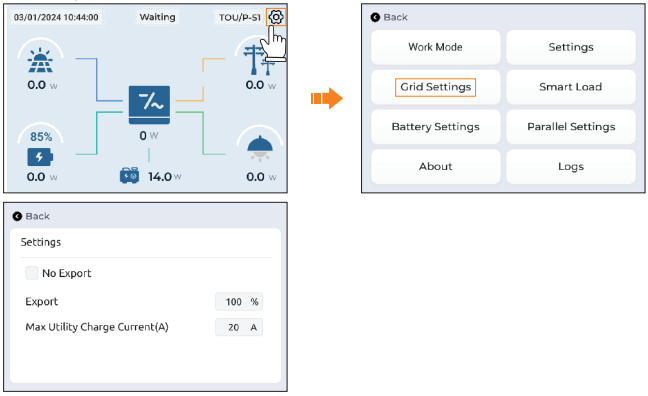


2 Tap ⚙ at the upper right corner to configure basic settings, including country, grid code, language and system date&time. When **Country** is set to **Pakistan**, work mode is different from other countries.



3 Export Control

This function allows the inverter to control the output power to the grid. If you do not want to feed power to the grid, enable **No Export**.



* The initial password is **2 0 1 4**. For your account security, please reset the password.
* Refer to user manual for more settings.

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Scan the QR code to download SolaXCloud App. Follow the tutorial or online documents 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.

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