



X3-ULTRA

15 kW / 19.9 kW / 20 kW / 25 kW / 30 kW

10K-GLV / 15K-GLV

Installation Manual

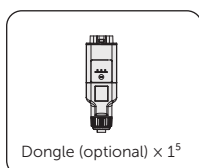
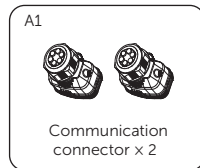
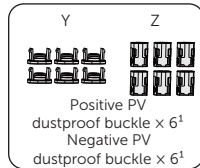
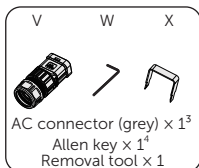
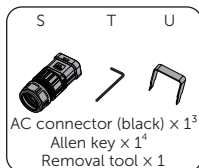
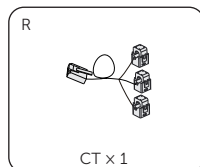
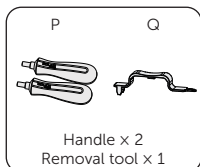
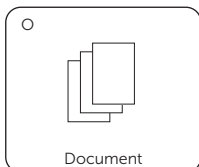
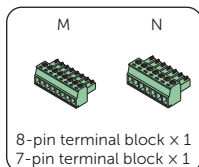
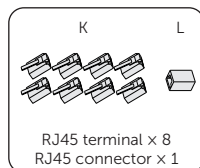
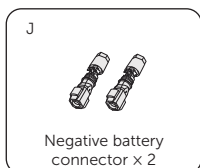
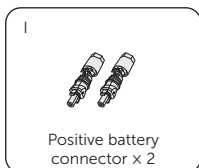
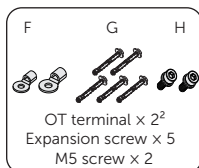
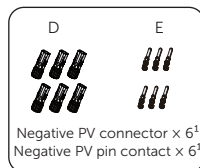
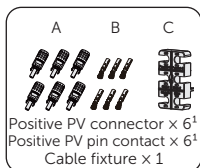
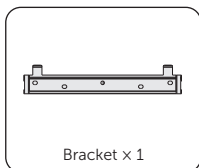
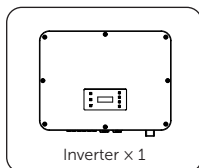
Version 3.0

www.solaxpower.com



©Manual in the QR code or
at www.solaxpower.com

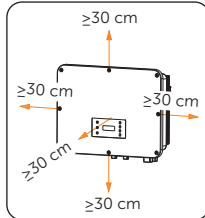
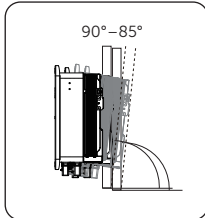
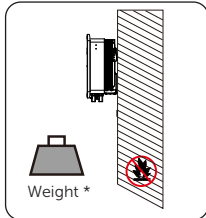
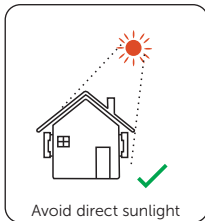
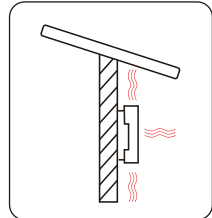
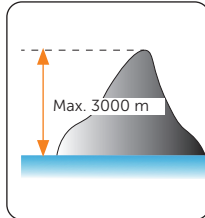
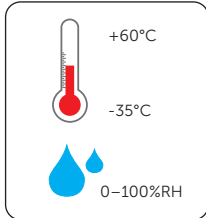
Packing List / Packliste / Liste du matériel livré / Lista de piezas / Lista da embalagem / Paklijst / Contenido della confezione / Zawartość opakowania / Seznam balení / Packlista / Listà de embalare / Опаковъчен лист / Pakkeliiste / Λίστα συσκευασίας / Pakkeleht / Pakkausluettelo / Popis pakiranja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



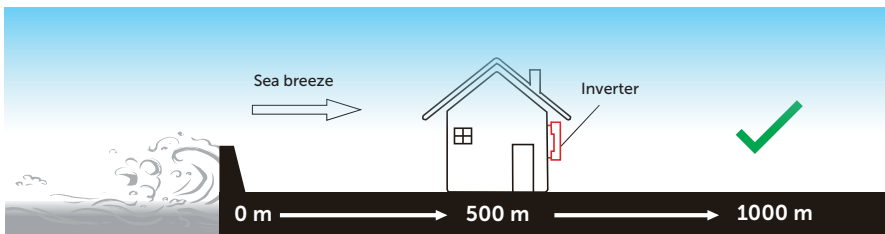
Note:

- Refer to the actual delivery for the optional accessories.
- "1": 4 pcs for X3-ULT-15K, 19.9K, 20K and 10K-GLV models; 6 pcs for X3-ULT-15KP, 20KP, 25K, 25KW, 30K, and 15K-GLV models.
- "2": 1 pcs for 10 mm² wire, 1 pcs for 16 mm² wire.
- "3": Supports a minimum wire diameter of 4 mm².
- "4": The included Allen key (part T and W) is for temporary use only. It is recommended to use a professional hex tool and a torque wrench to achieve the specified torque. Failure to apply correct torque may damage the AC terminals.
- "5": 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 / Rögztési hely / Montavimo vieta / Montāžas vieta / Miesto inštalácie / Mesto namestitve / Montaj Konumu / Local de montagem



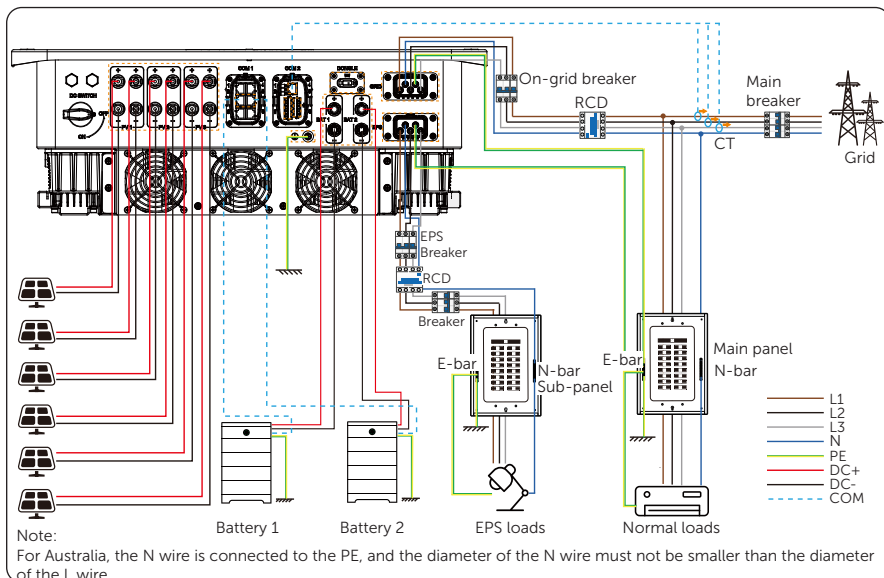
*46±1.5 kg for X3-ULT-15K, 19.9K, 20K, 10K-GLV and 15K-GLV models; 47.5±1.5 kg for X3-ULT-15KP and 20KP models; 48.5±1.5 kg for X3-ULT-25K, 25KW, and 30K models.



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 / Kopplingschema / 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	X3-ULT-15KP X3-ULT-15K X3-ULT-10K-GLV	X3-ULT-19.9K X3-ULT-20K X3-ULT-20KP	X3-ULT-25K X3-ULT-30K X3-ULT-25KW X3-ULT-15K-GLV
On-grid Breaker	63 A	63 A	63 A

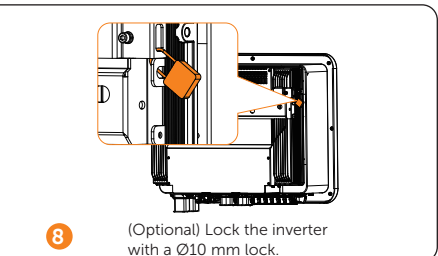
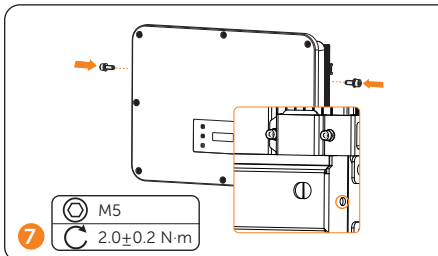
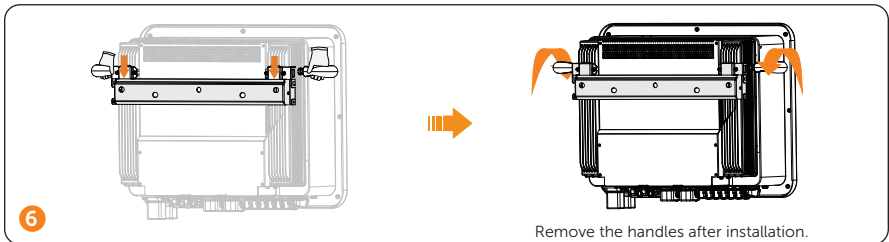
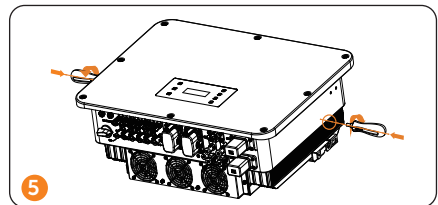
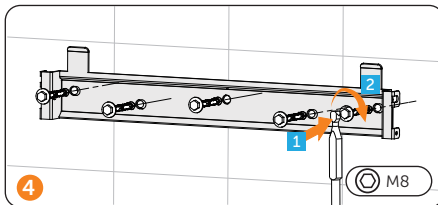
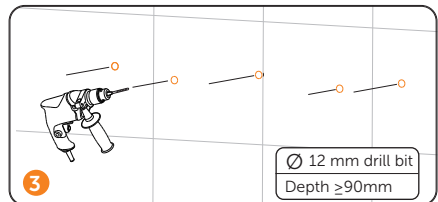
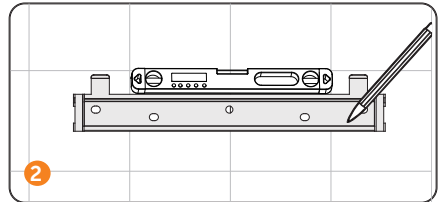
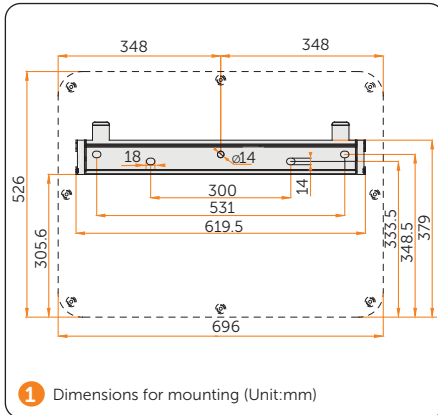
- Breaker recommended for grid connection (without EPS)

Model	X3-ULT-15KP X3-ULT-15K X3-ULT-10K-GLV	X3-ULT-19.9K X3-ULT-20K X3-ULT-20KP	X3-ULT-25K X3-ULT-30K X3-ULT-25KW X3-ULT-15K-GLV
On-grid Breaker	32 A	40 A	63 A

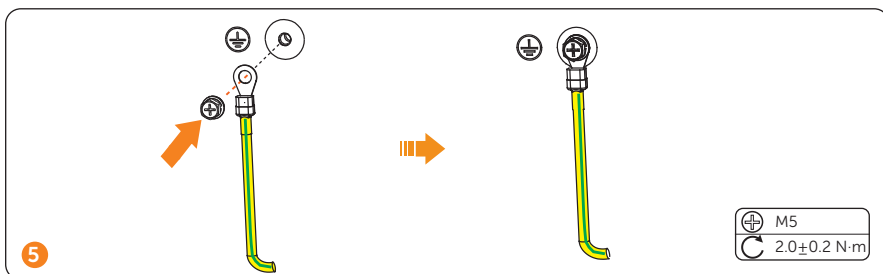
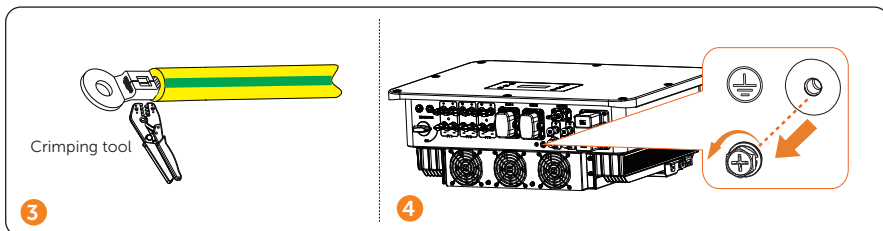
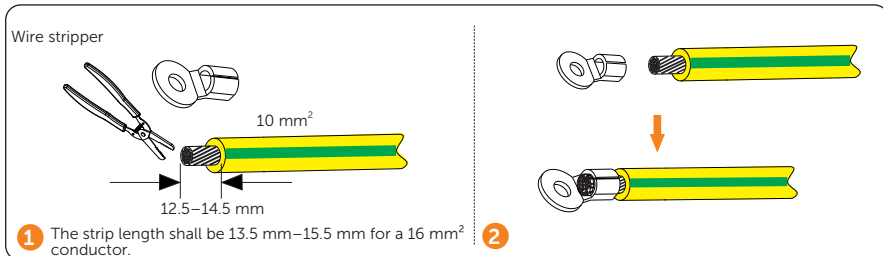
- Breaker recommended for off-grid connection (only EPS)

Model	X3-ULT-15KP X3-ULT-15K X3-ULT-10K-GLV	X3-ULT-19.9K X3-ULT-20K X3-ULT-20KP	X3-ULT-25K X3-ULT-30K X3-ULT-25KW X3-ULT-15K-GLV
EPS Breaker	32 A	40 A	63 A

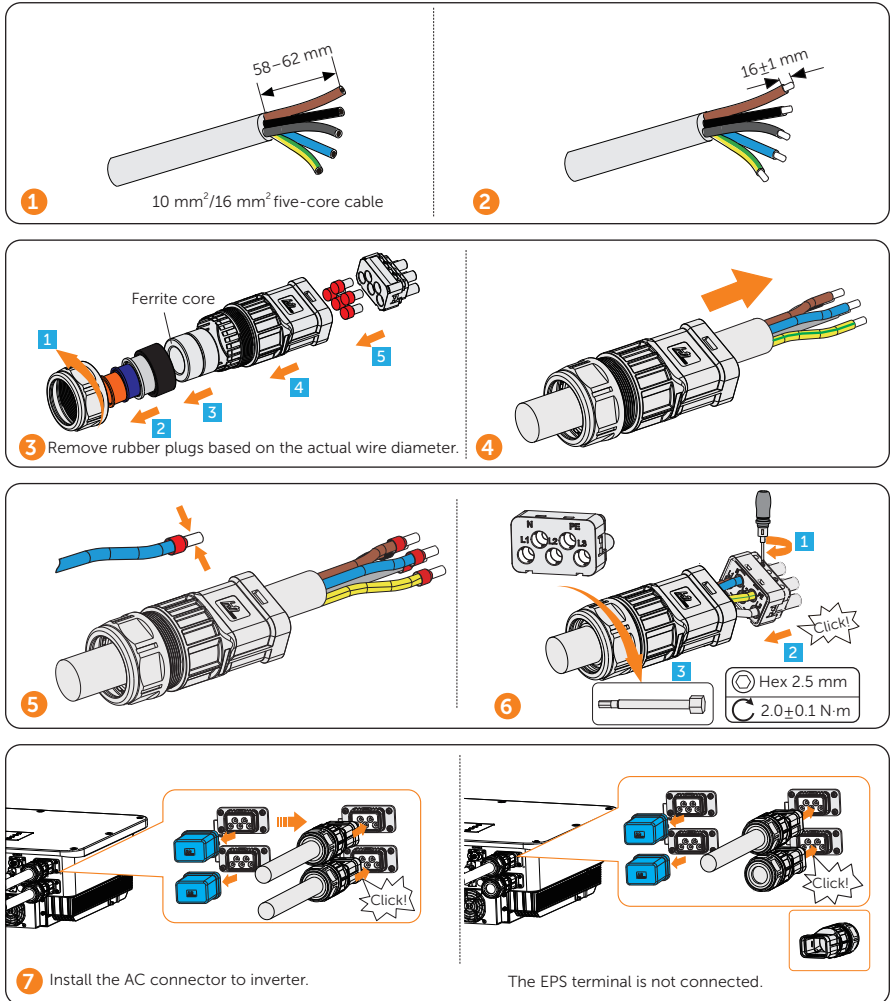
Mechanical Installation / Mechanische Installation / Installation mécanique / Instalación mecánica / Instalação mecânica / Mechanische installatie / Installazione meccanica / Instalacja mechaniczna / Mechanická instalace / Mekanisk installation / Instalare mecanică / Механичен монтаж / Mekanisk installation / Μηχανική εγκατάσταση / Mehaaniline paigaldus / Mekaaninen asennus / Mehanička ugradnja / Mechanikai telepítés / Mechaninis montavimas / Mehāniskā uzstādīšana / Mechanická inštalácia / Mehanska namestitev / mekaniik 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 / Potáczenie z siecią i EPS / Pripojení k síti a EPS / Elnäts- och EPS-anlutning / 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 / Tikla un EPS savienojums / Pripojenie do siete a k nůdzovému napájaníu EPS / Povezava z omrežjem in EPS zasilno napajanje / Šebeke ve EPS Bağlantı / Conexão de Rede e EPS

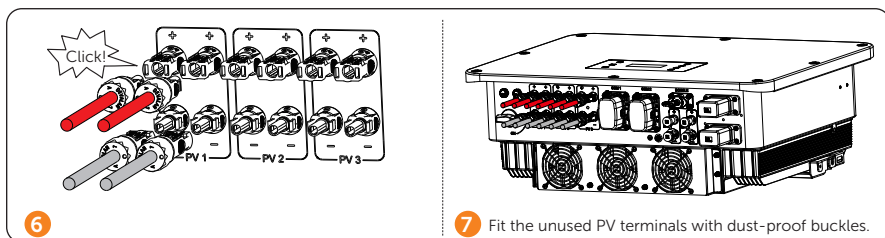
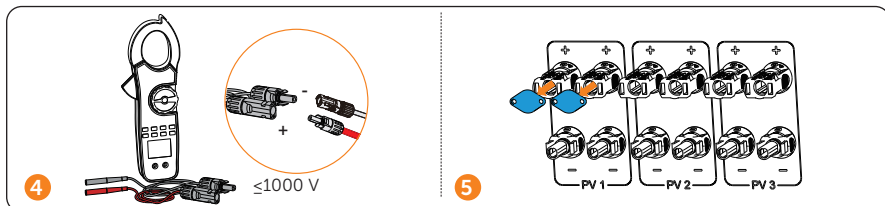
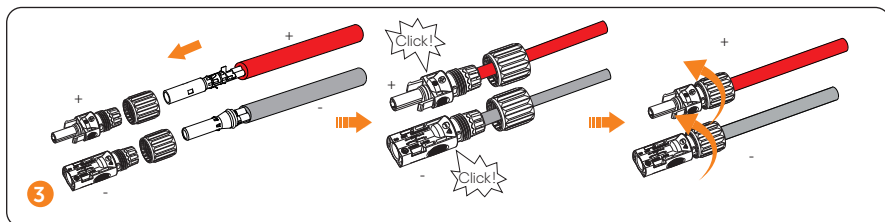
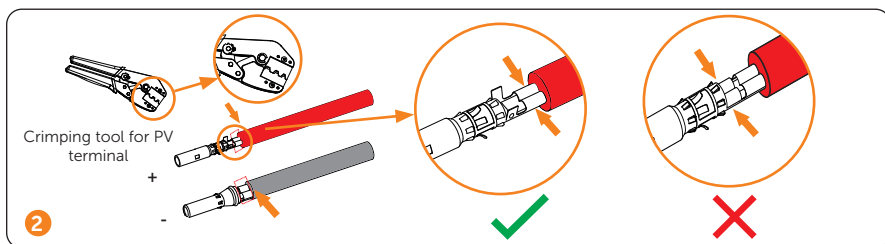
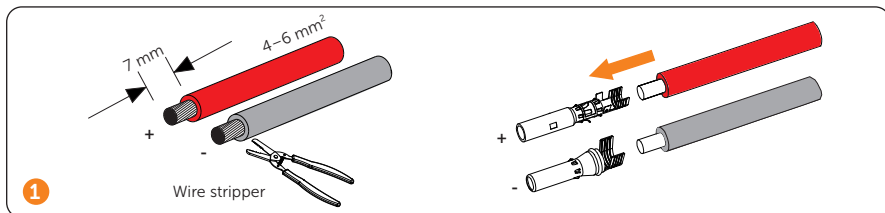


*Before powering on the inverter, make sure the AC connectors are properly installed on the Grid and the EPS terminal. Even if the EPS terminal is not wired, it is still necessary to install the AC connectors correctly. Otherwise, electrical shock may be caused by high voltage, resulting in serious personal injury or death.

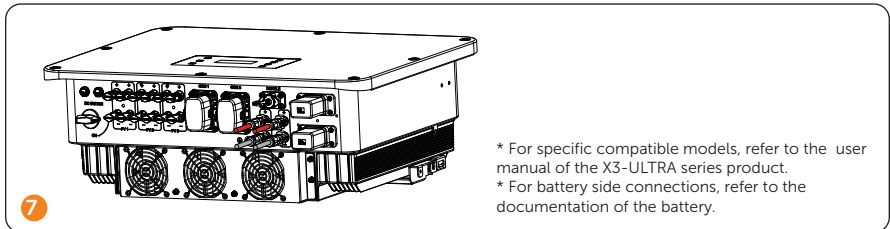
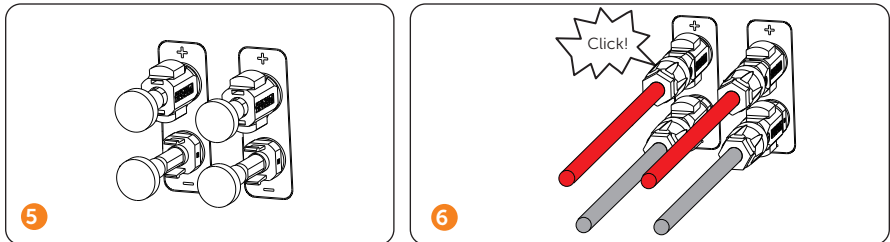
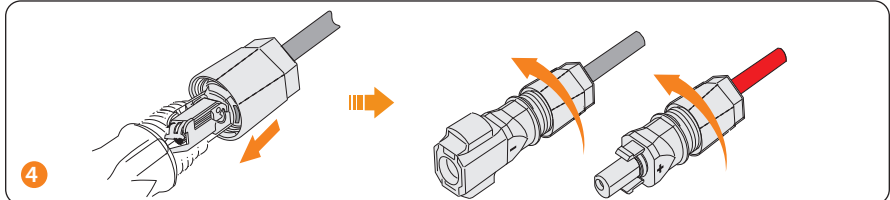
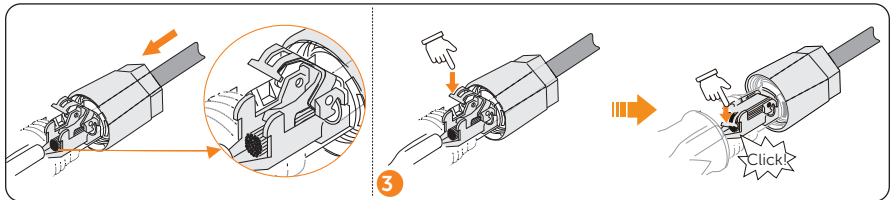
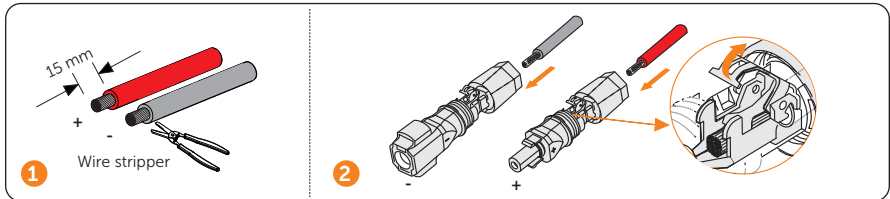
*Step 6: It is recommended to use an H2.5 hex driver bit with a screwdriver to achieve the specified torque. Ensure that the bit's shaft diameter does not exceed 3.5 mm within the first 25 mm from the tip.

*The X3-ULT-10K-GLV and X3-ULT-15K-GLV do not connect to the N wire.

PV Connection / PV-Anschluss / Connexion PV / Conexión FV / Ligaçõ PV
 (Fotovoltaica) / PV-aansluiting / Collegamento PV / Potàczenie PV / Pripõjení FV /
 Anslutning av solcellsanlåggning / Conexiune PV / Вр̀зка с PV / PV-tilslutning /
 Σύνδεση φωτοβολταϊκού / PV-ühendus / PV-liitõtõt / Fotonaponski priklučak / PV
 bekõtës / Fotovoltinë jungtis / PV savienõjums / Pripõjenie fotovoltaiiky (FV) / Povezava
 fotonapetostnega kabla (PV) / PV Bađlantisi / Conexãõ PV



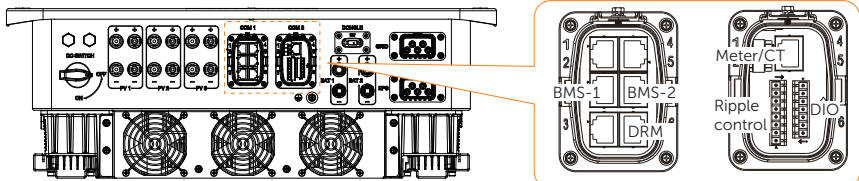
Battery Connection / Batterieanschluss / Branchement de la batterie / Conexión de la batería / Ligação da bateria / Batterij-aansluiting / Collegamento della batteria / Połączenie akumulatora / Připojení baterie / Batterianslutning / Conectare baterie / Връзка с батерията / Batteritilslutning / Σύνδεση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



* For specific compatible models, refer to the user manual of the X3-ULTRA series product.
* For battery side connections, refer to the documentation of the battery.

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

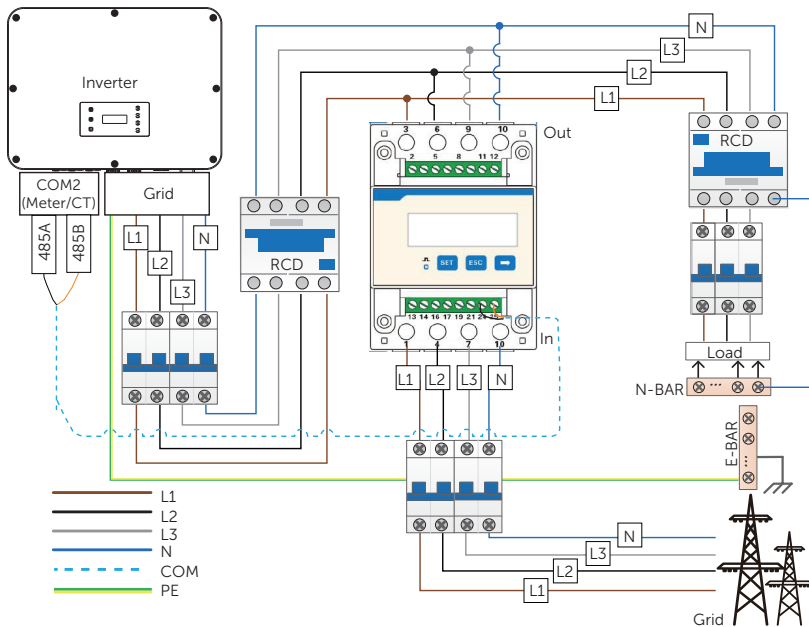
Pin assignment of BMS, DRM, Meter/CT, Ripple control and DIO



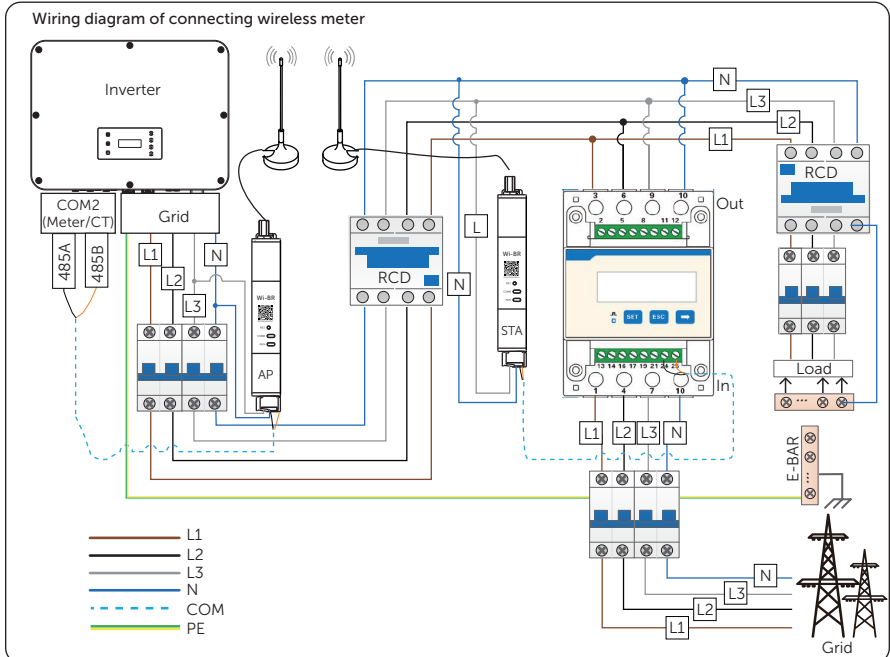
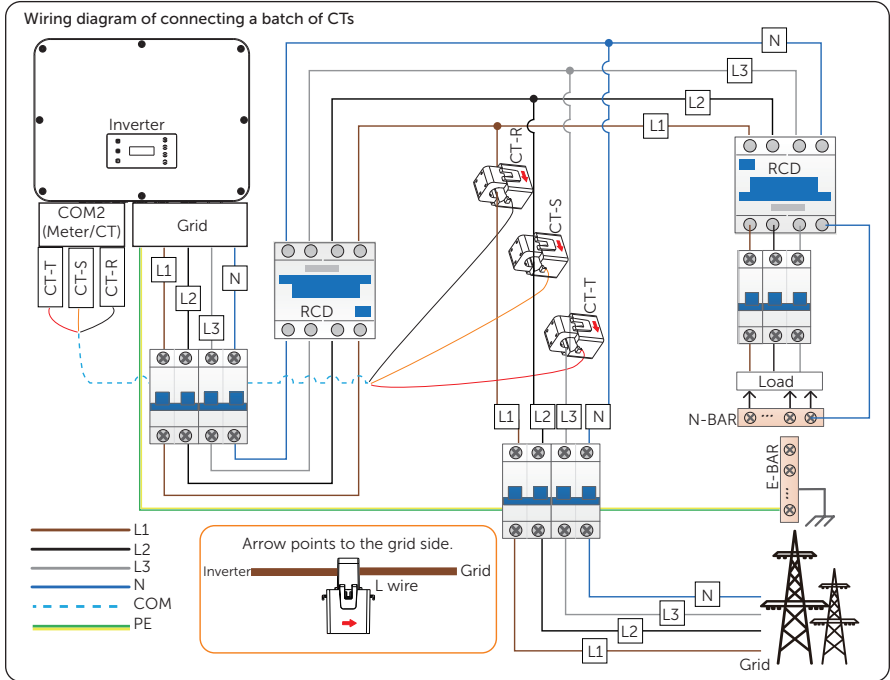
Assignment	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
BMS	+3.3V_ COM	GND_ COM	GND_ COM	BMS_CANH_ CON	BMS_CANL_ CON	GND_ COM	BMS_485A_ CON	BMS_485B_ CON
DRM	DRM1/5	DRM2/6	DRM3/7	DRM4/8	+3.3V_COM	COM/ DRM0	GND_COM	GND_COM
Meter/CT	CT_R1_ CON	CT_S1_ CON	CT_T1_ CON	METER_485A	METER_485B	CT_T2_ CON	CT_S2_CON	CT_R2_CON
Ripple control	RP_K4	GND_ COM	RP_K3	GND_COM	RP_K2	GND_ COM	RP_K1	GND_COM
DIO	DO_1	DO_2	DI_1+	DI_1-	DI_2+	DI_2-	GND_COM	-

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

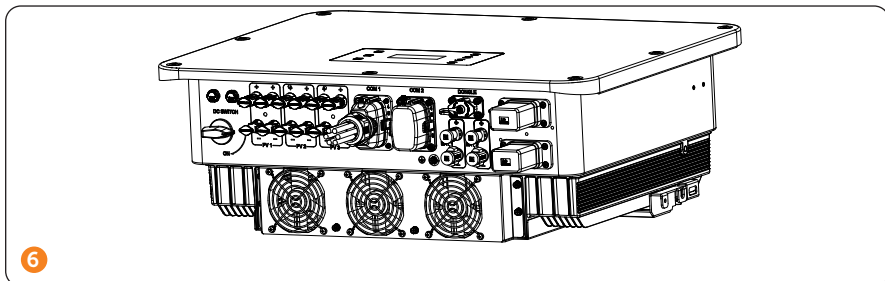
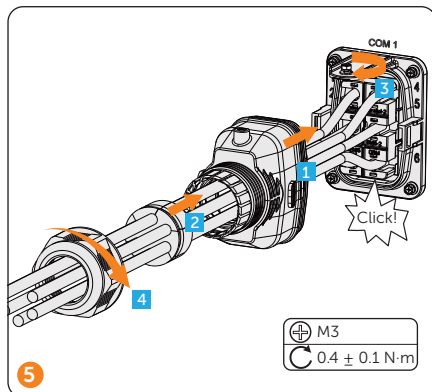
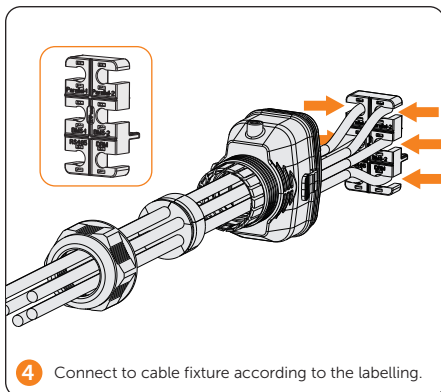
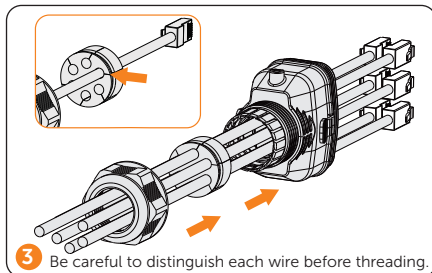
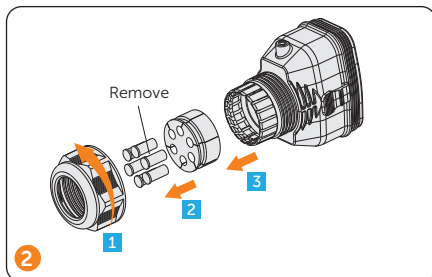
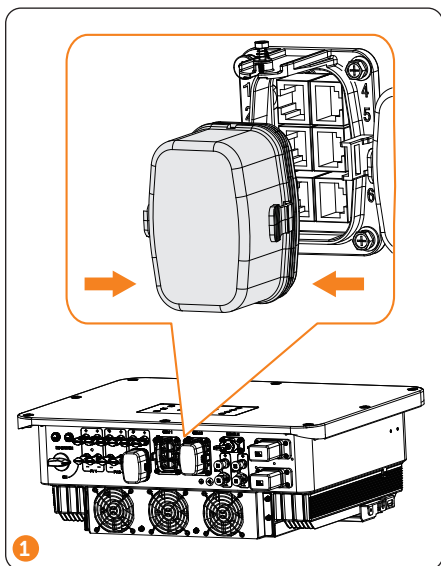
Wiring diagram of connecting a direct-connected meter

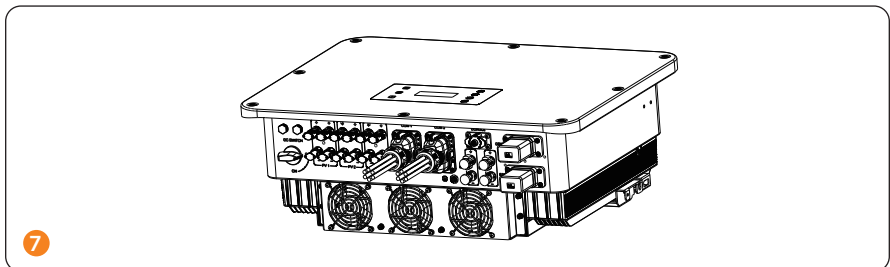
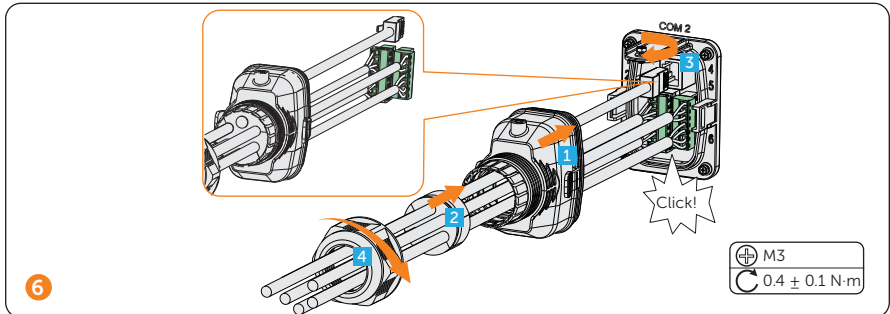
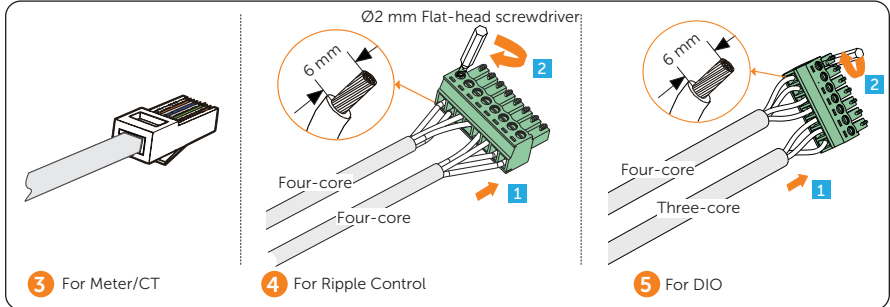
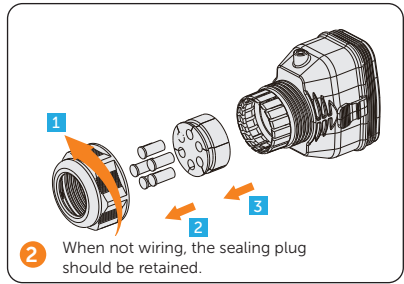
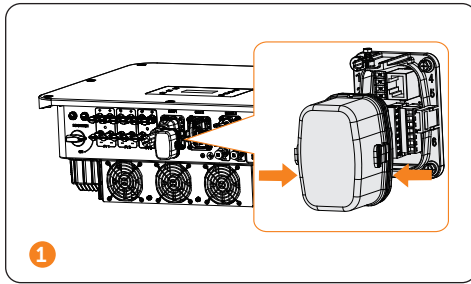


- L1
- L2
- L3
- N
- COM
- PE

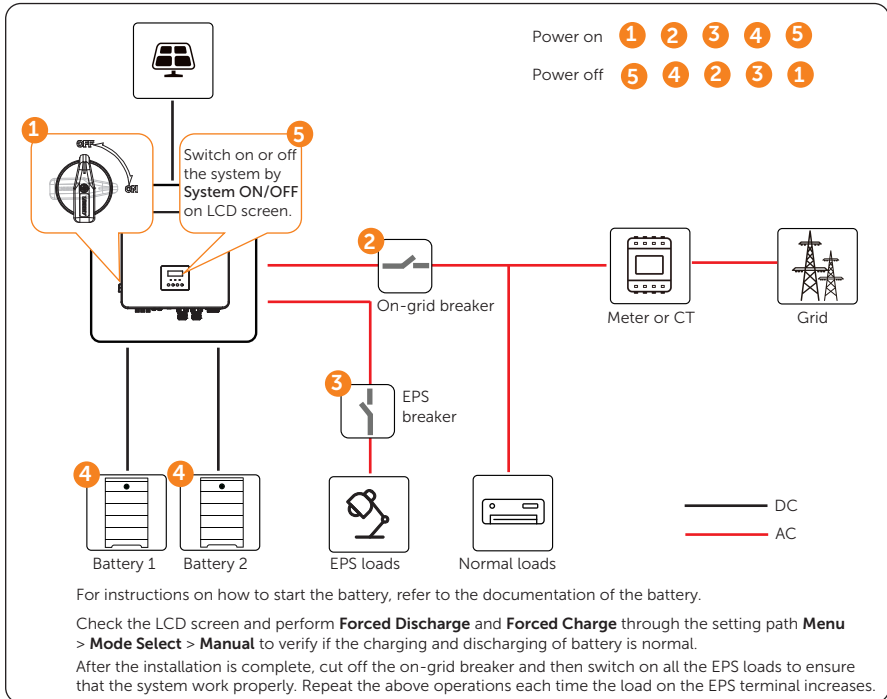


* For other communication connections, refer to the user manual.



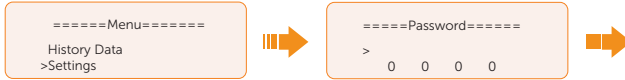


Power On/Off / Einschalten/Ausschalten / Marche/Arrêt / Encendido/apagado / Ligar/Desligar / In-/uitschakelen / Accensione/Spegnimento / Włczenie/wyłączenie zasilania / ZAP/VYP / Strøm på/av / Pornire/Oprire / Включване/изключване / Strøm til/fra / Ενεργοποίηση/Απενεργοποίηση / Toide sisse/välja / Virta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



General Setting / Allgemeine Einstellungen / Paramètres généraux / Configuración general / Definição Geral / Algemene instelling / Impostazione generale / Ustawienia ogólne / Obecné nastavení / Generell inställning / Setare general / Обща настройка / Genel indstilling / Γενική τοποθέτηση / Üldine seadistus / Yleiset / Орце поставке / Άλταλάνος beállitás / Bendrasis nustatymas / Vispārīgs iestatījums / Všeobecné nastavenie / Splošna nastavitve / Genel Ayar / Configuração Geral

1 User Settings

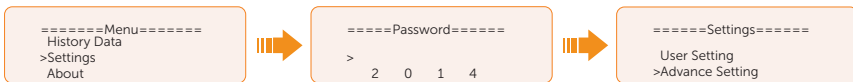


The initial password is 0 0 0 0 which should be changed for the consideration of account security.

- Data & Time, Language



2 Advance Settings



The initial password is 2014 which should be changed for the consideration of account security.

- Safety Code



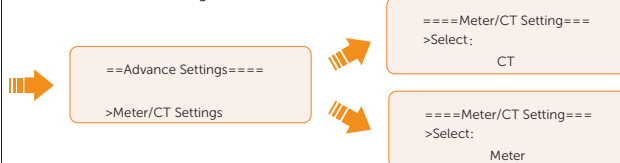
Set the corresponding safety standards according to different countries

- Export Control



Set the control power to 0 for the countries with zero export control limit

- Meter / CT Settings

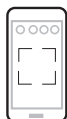


- Shut Down



The areas connected to the NS protection device need to be set.

Wi-Fi Configuration / WLAN-Konfiguration / Configuration Wi-Fi / Configuración de wifi / Configuração de Wi-Fi/Wi-Fi-configuratie / Configurazione del Wi-Fi / Konfiguracija Wi-Fi / Konfigurace Wi-Fi / Wi-Fi-konfiguration / Configurare Wi-Fi / Wi-Fi конфигурация / WiFi-konfiguration / Ρυθμίσεις παραμέτρων Wi-Fi / Wi-Fi konfiguratsioon / Wi-Fi-kokoonpano / Konfiguracija Wi-Fi mreže / Wi-Fi konfiguráció / "Wi-Fi" konfiguracija / Wi-Fi konfigurācija / Konfigurácia Wi-Fi / Konfiguracija Wi-Fi / Wi-Fi Yapılandırması / Configuração Wi-Fi



Scan the QR code to download the 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.

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