



X3-ULTRA

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

10K-GLV / 15K-GLV

Installation Manual

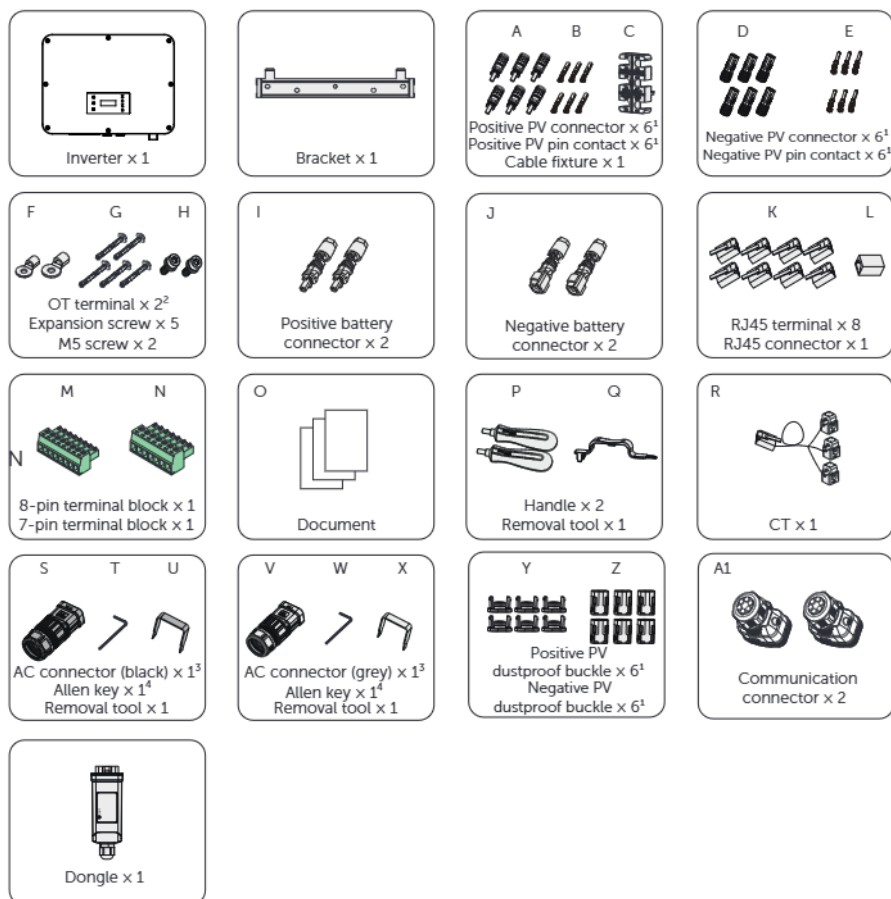
Version 2.0

www.solaxpower.com



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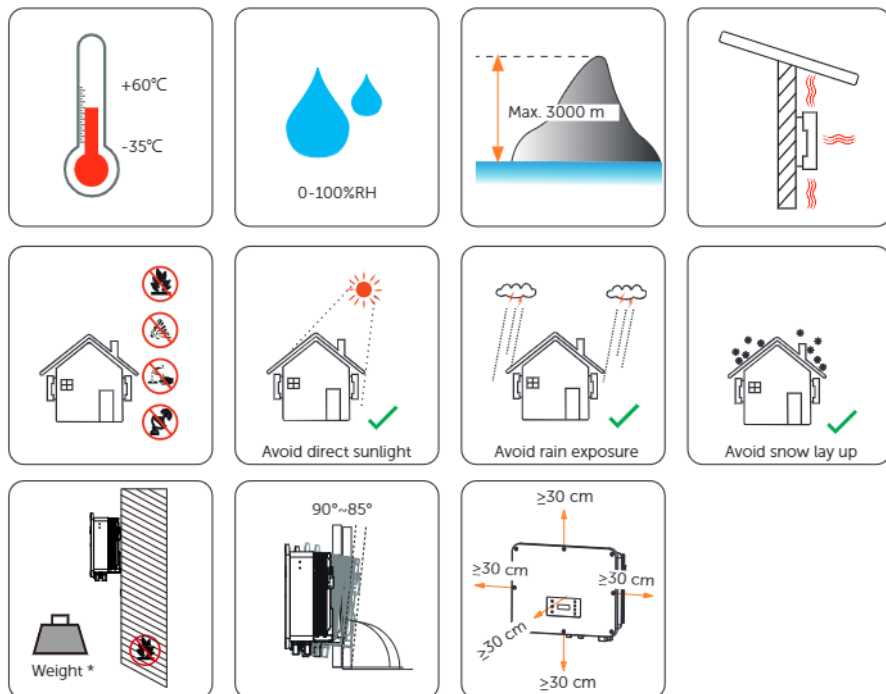
Packing List / Packliste / Liste du matériel livré / Lista de piezas / Lista da embalagem / Paklijst / Contenuto della confezione / Zawartość opakowania / Seznam balení / Packlista / Listă de ambalare / Опаковъчен лист / Pakkeliste / Λίστα συσκευασίας / Pakkeleht / Pakkausluettelo / Popis pakiranja /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



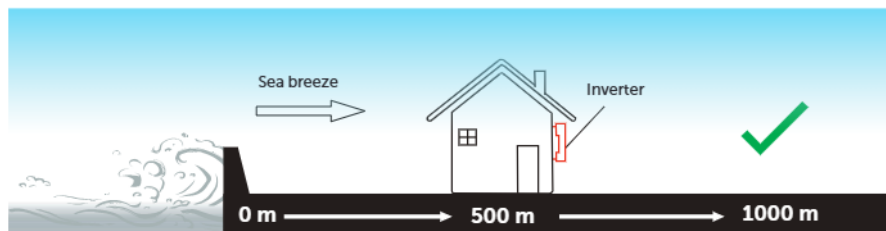
ote:

- Refer to the actual delivery for the optional accessories.
- ¹: 4 pcs for X3-ULT-15K, 19.9K, 20K and 10K-GLV, 6 pcs for X3-ULT-15KP, 20KP, 25K, 25KW, 30K, and 15K-GLV.
- 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.

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 instalácie / Mesto namestitve / Montaj Konumu / Local de montagem



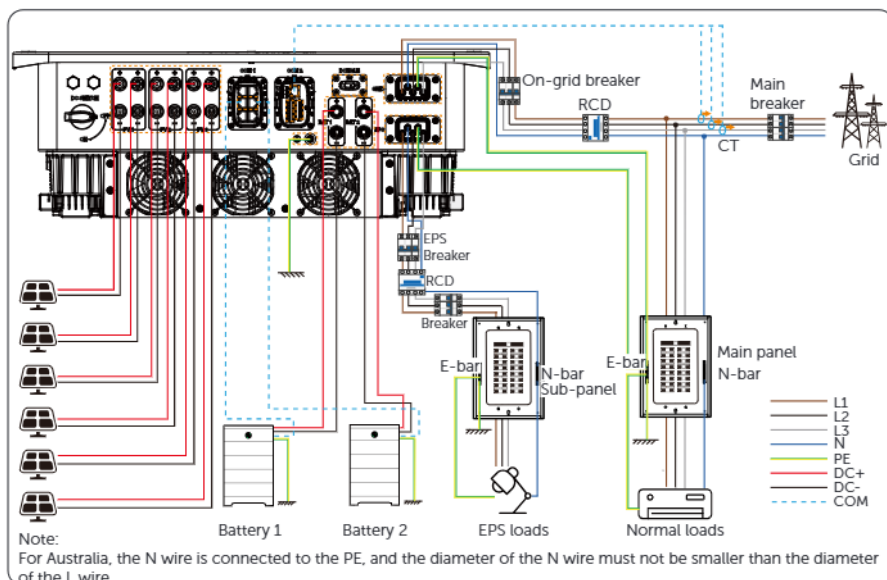
*46±1.5 kg for X3-ULT-15K, 19.9K, 20K, 10K-GLV and 15K-GLV, 47.5±1.5 kg for X3-ULT-15KP and 20KP, 48.5±1.5 kg for X3-ULT-25K, 25KW and 30K.



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 / Kytentäkaavio
 / 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

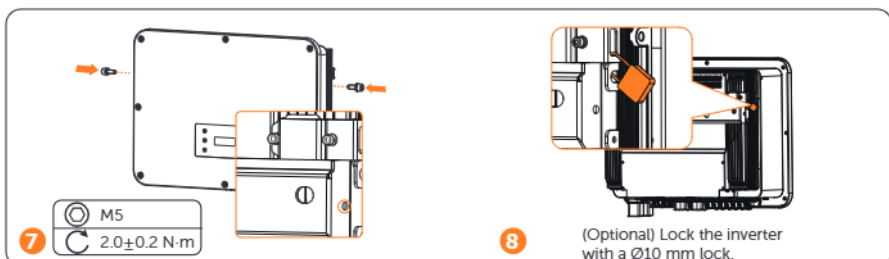
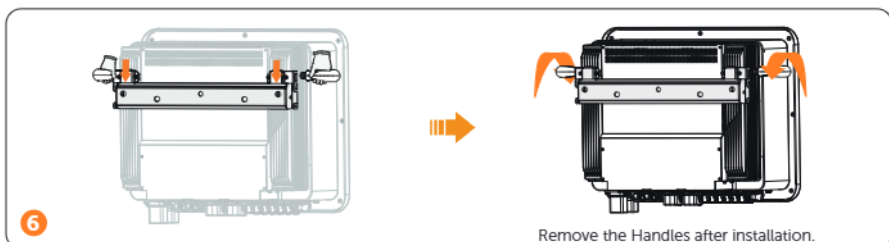
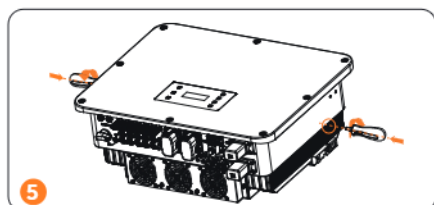
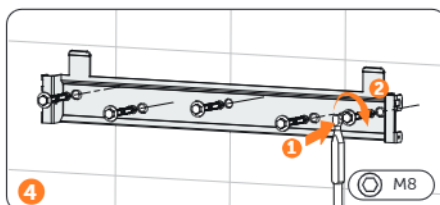
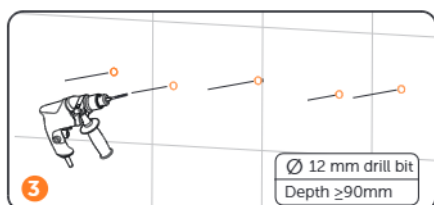
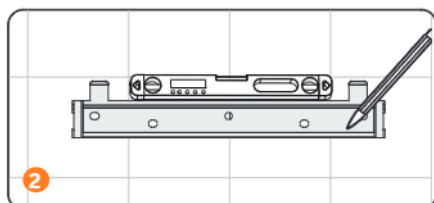
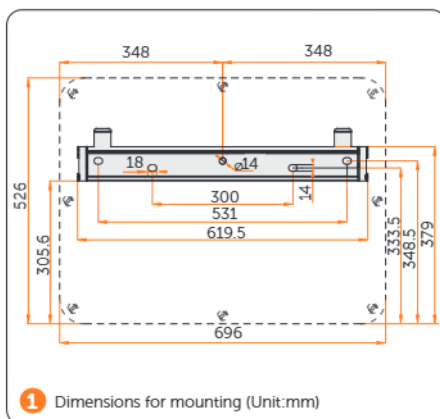
- Breaker recommended for grid connection (without EPS)

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)

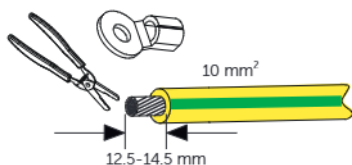
Model	X3-ULT-15KP X3-ULT-15K X3-ULT-10K-GLV	X3-ULT-19.9K X3-ULT-20K X3-ULT-20KP	X3-ULT-25K X3-ULT-30K X3-ULT-25KW X3-ULT-15K-GLV
EPS Breaker	32 A	40 A	63 A

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 / mekanik kurulum / instalação mecânica



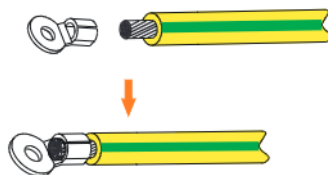
PE Connection / Schutzerdungs-Anschluss / Connexion PE / Conexión PE / Ligação à Terra / PE-aansluiting / Collegamento PE / Potáczenie PE / PE připojení / PE-anslutning / Conexiune PE / PE връзка (земя) / Jordforbindelse / Σύνδεση PE / PE ühendus / PE-yhteys / PE priključak / PE bekötés / PE (apsauginio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

Wire stripper



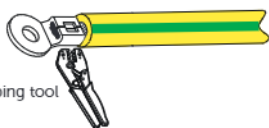
1 Stripping length of 16 mm² wire is 13.5 mm-15.5 mm

2

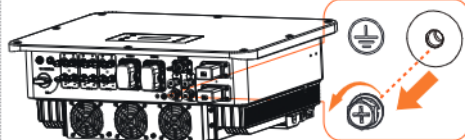


3

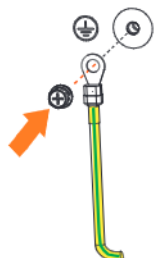
Crimping tool



4

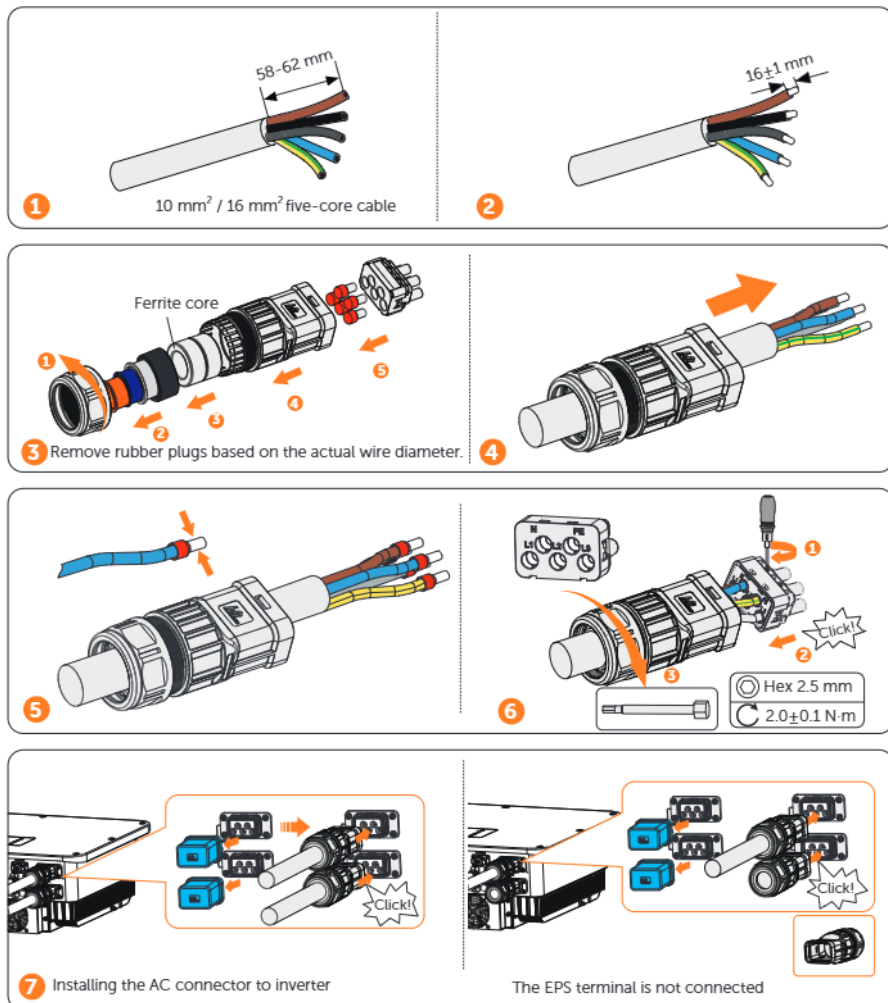


5



M5
2.0±0.2 N·m

Grid and EPS Connection / Netz- und EPS-Verbindung / Branchement Réseau et EPS / Conexión de red y EPS / Ligaçã o à Rede e Off-grid / Aansluiting op het net en EPS / Collegamento GRID e EPS / Potá czenie z siecią i EPS / Pripojení 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 / Tikla un EPS savienojums / Pripojenie do siete a k núdzovému napá janiu EPS / Povezava z omrežjem in EPS zasilno napajanje / Šebeke ve EPS Bağlantı / Conexão de Rede e EPS

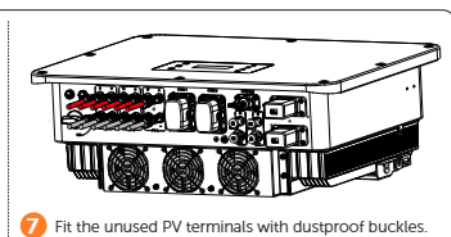
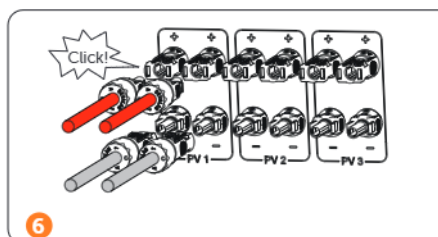
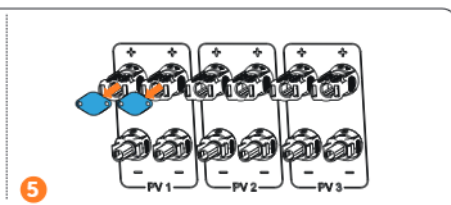
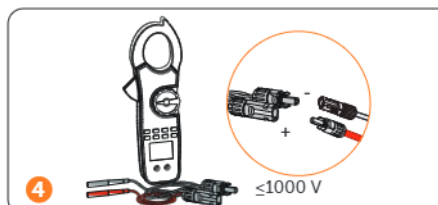
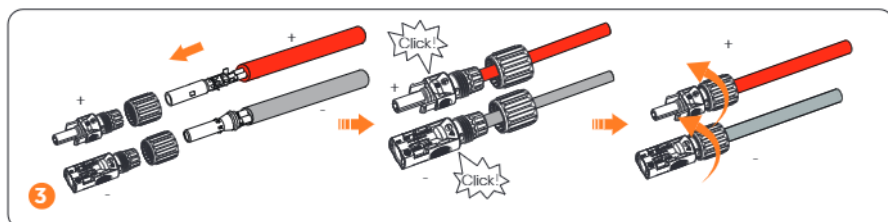
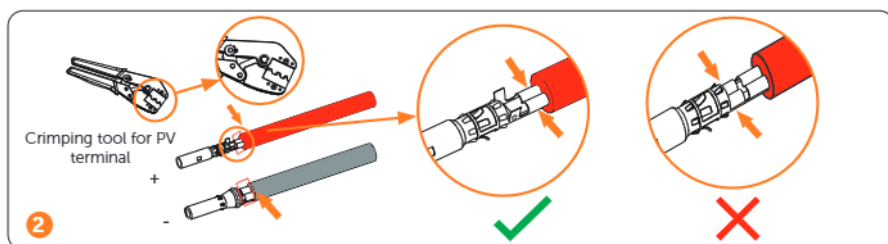
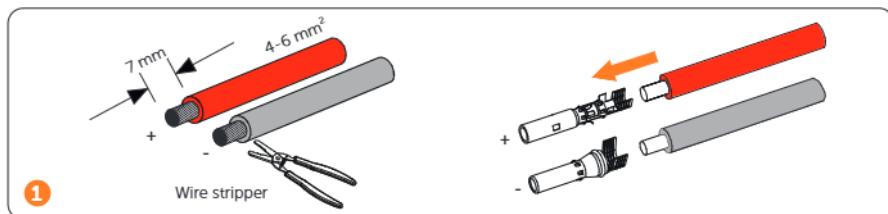


*Before powering on the inverter, make sure the AC connectors are properly installed on the Grid and EPS terminal. Even if the EPS terminal is not wired, it is still necessary to install the AC connectors correctly. Otherwise, electrical shock may be caused by high voltage, resulting in serious personal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

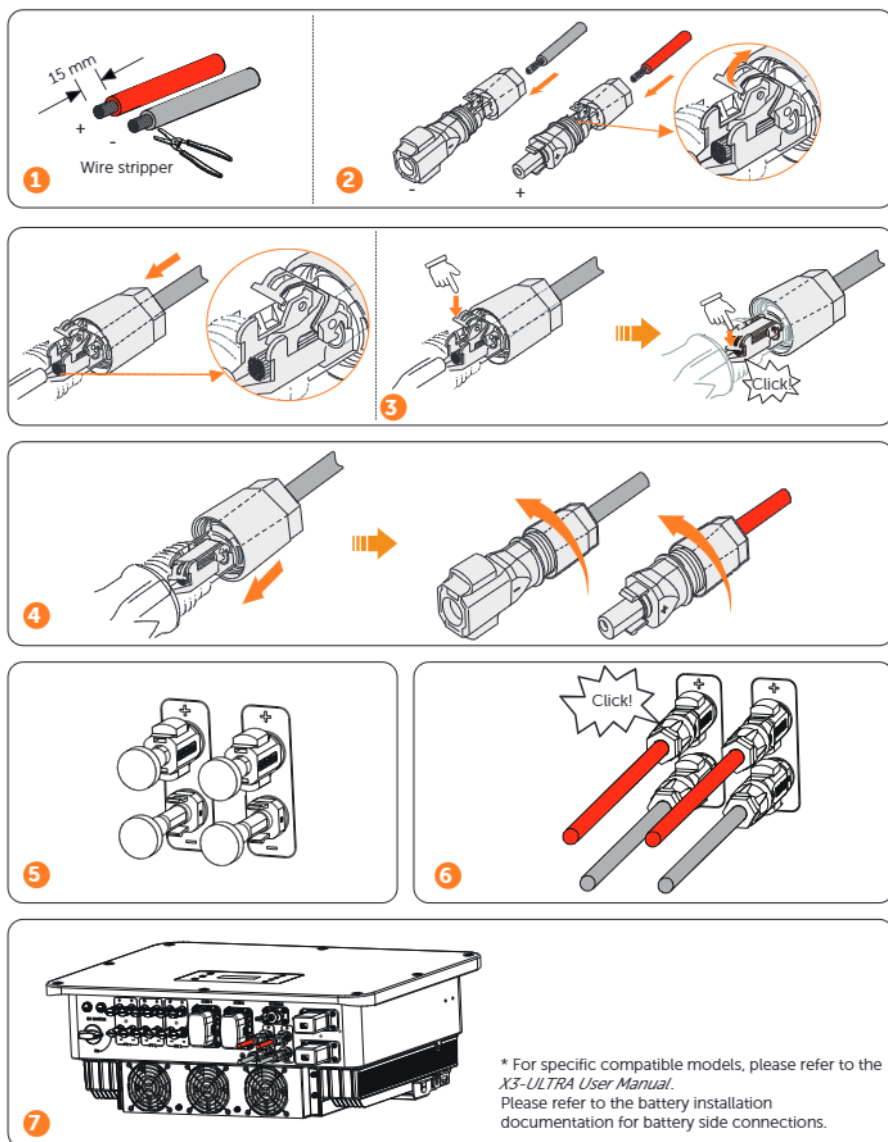
*Step 6: It is recommended to use an H2.5 hex driver bit with a screwdriver to achieve the specified torque. Ensure that the bit's shaft diameter does not exceed 3.5 mm within the first 25 mm from the tip.

*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 / Ligaçã PV
 (Fotovoltaica) / PV-aansluiting / Collegamento PV / Połączenie PV / Pripojení FV /
 Anslutning av solcellsanläggning / Conexiune PV / Връзка с PV / PV-tíslutning /
 Σύνδεση φωτοβολταϊκού / PV-ühendus / PV-liitântä / Fotonaponski priključak / PV
 bekôtés / Fotovoltinė jungtis / PV savienojums / Pripojenie fotovoltaiķy (FV) / Povezava
 fotonapetostnega kabla (PV) / PV Baġlantısı / Conexão PV

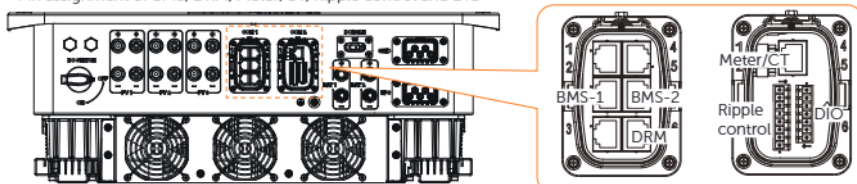


Battery Connection / Batterieanschluss / Branchement de la batterie / Conexión de la batería / Ligaçao da bateria / Batterij-aansluiting / Collegamento della batteria / Połączenie akumulatora / Připojení baterie / Batterianslutning / Conectare baterie / Връзка с батерията / Batteritilslutning / Σύνδεση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



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

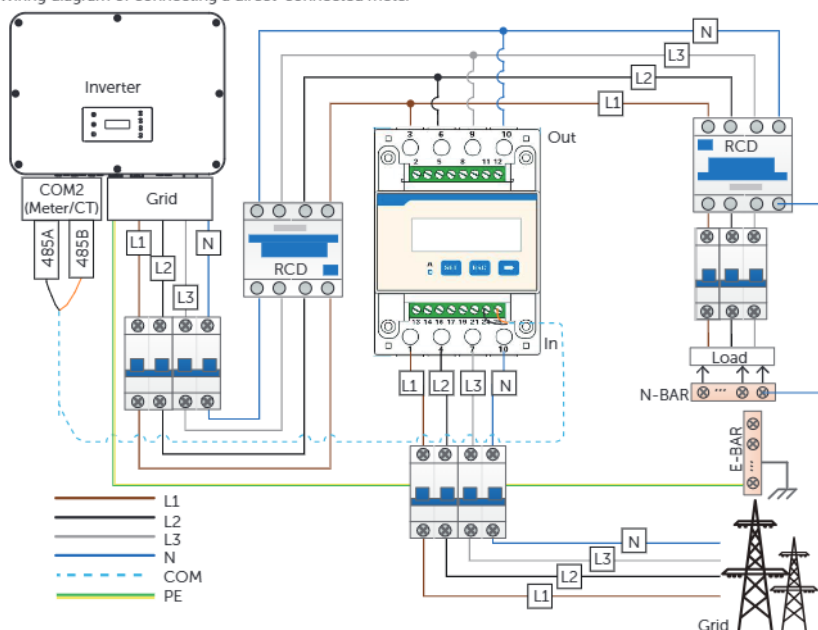
Pin assignment of BMS, DRM, Meter/CT, Ripple control and DIO



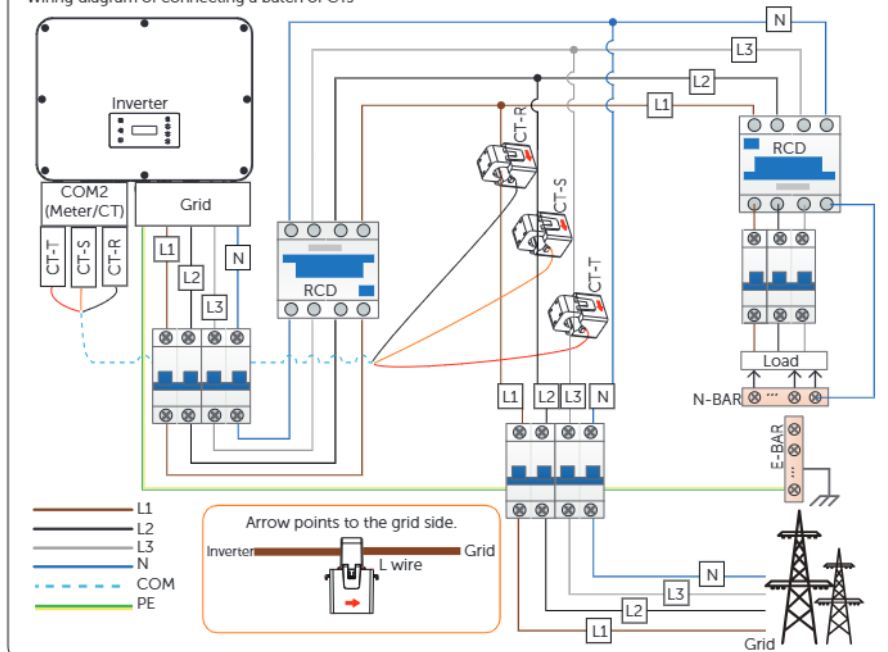
Assignment	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
BMS	+3.3V_ COM	GND_ COM	GND_ COM	BMS_CANH_ CON	BMS_CANL_ CON	GND_ COM	BMS_485A_ CON	BMS_485B_ CON
DRM	DRM1/5	DRM2/6	DRM3/7	DRM4/8	+3.3V_COM	COM/ DRM0	GND_COM	GND_COM
Meter/CT	CT_R1_ CON	CT_S1_ CON	CT_T1_ CON	METER_485A	METER_485B	CT_T2_ CON	CT_S2_CON	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.

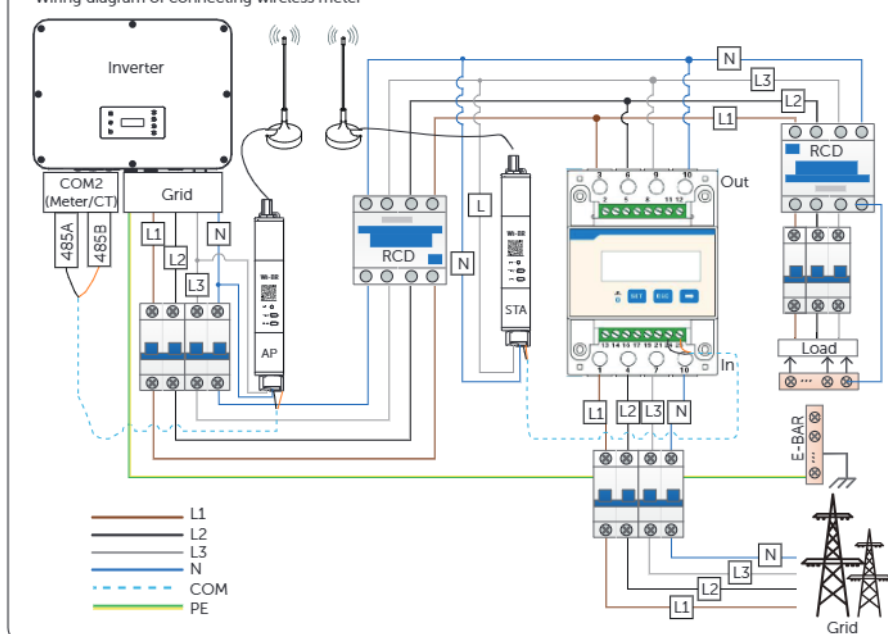
Wiring diagram of connecting a direct-connected meter



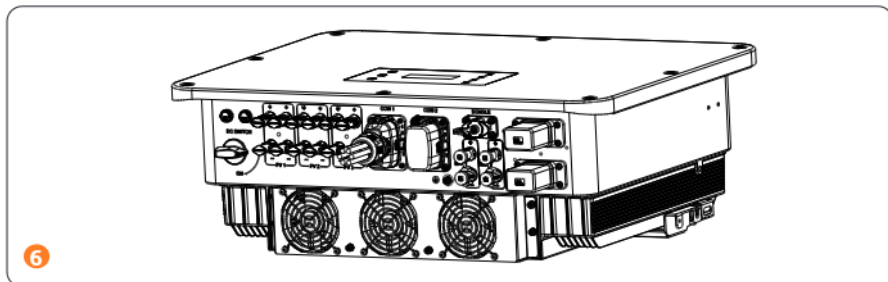
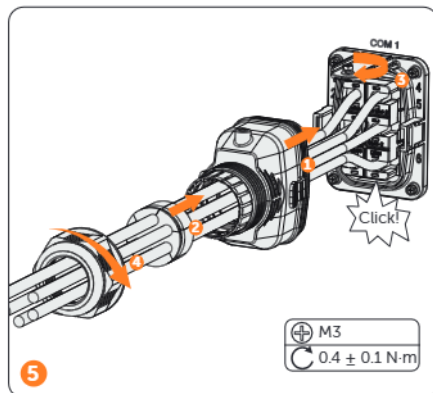
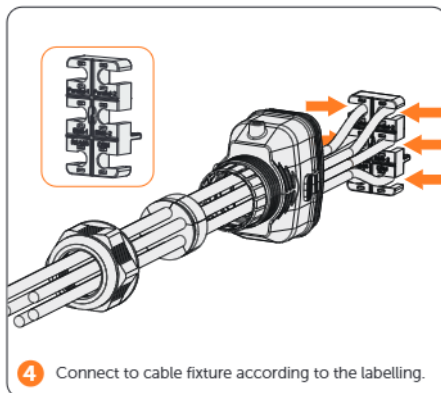
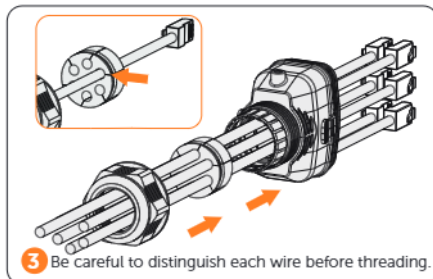
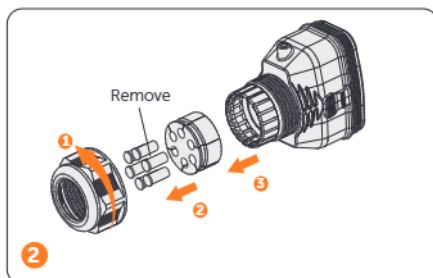
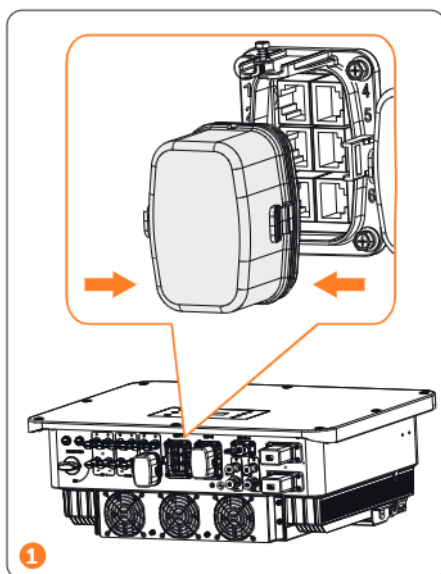
Wiring diagram of connecting a batch of CTs

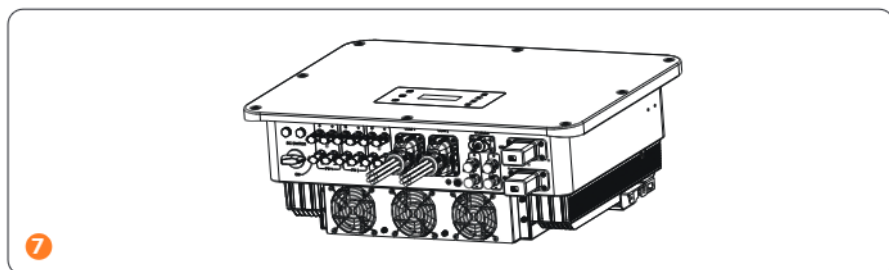
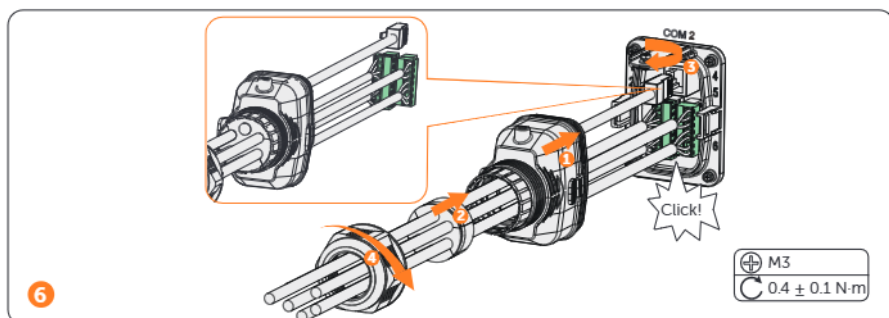
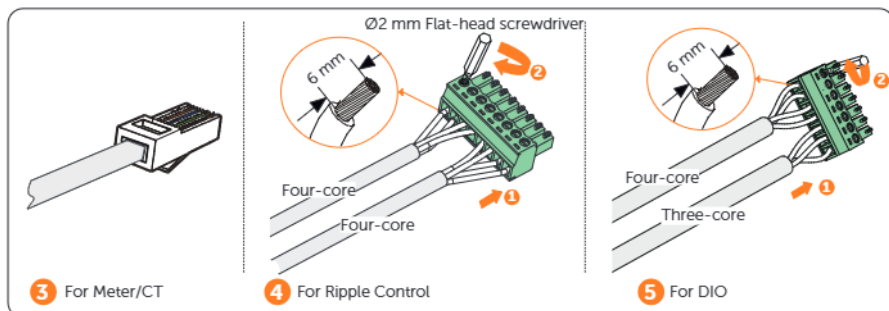
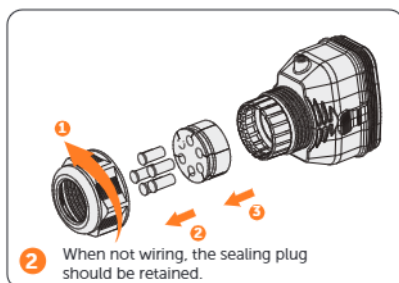
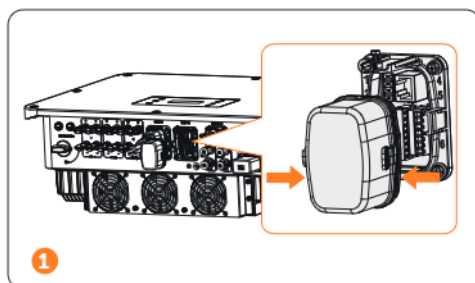


Wiring diagram of connecting wireless meter

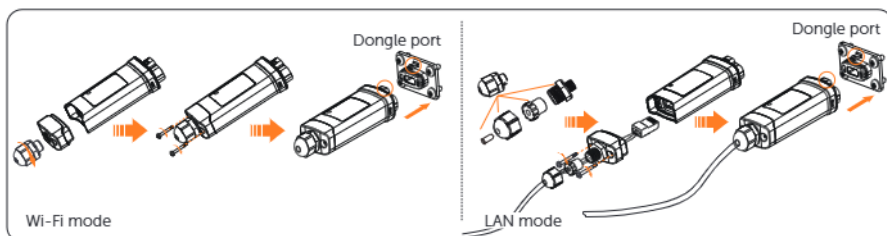


* Refer to user manual for other communication connections.

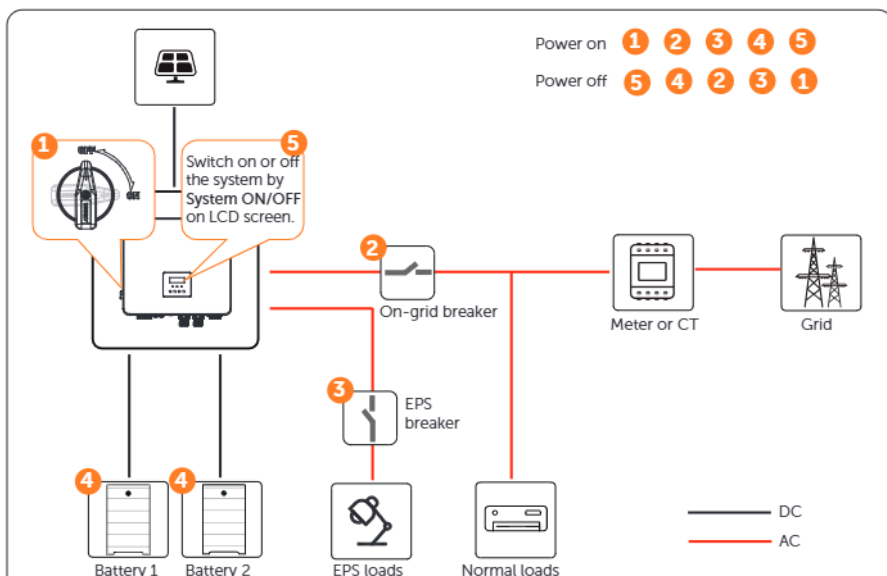




Monitoring Connection / Überwachungs-Anschluss / Branchement de surveillance / Conexión de monitorización / Ligação à Monitorização / Monitoring-aansluiting / Collegamento monitoraggio / Potłączenie na potrzeby monitorowania / Připojení ke sledování / Övervakningsanslutning / Conexiune de monitorizare / Мониторинговая връзка / Overvågningsforbindelse / Σύνδεση παρακολούθησης / Seire ühendus / Valvontaliitântä / Priključak za nadzor / Monitoring bekötés / Stebėjimo ryšys / Uzraudzības savienojums / Pripojenie monitorovania / Povezava za spremljanje / Izlema Bağlantısı / Conexão de Monitoramento



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 / Τοide sisse/välja / Virta päälle/pois / Uključivanje/isključivanje napajanja / Be-/kikapcsolás / Maitinimo įjungimas / išjungimas / Barošanas iestėgšana/izslėgšana / Napájanie zapnuté/vypnuté / Vklop/izklop / Güç Açık/Kapalı / Ligar/Desligar



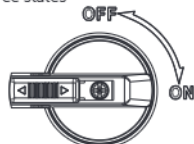
For instructions on how to start the battery, refer to the battery-related manual.

Check the LCD screen and perform **Forced Discharge** and **Forced.Charge** through the setting path **Menu > Mode Select > Manual** to verify if the charging and discharging of battery is normal.

After the installation is complete, cut off the On-grid breaker and then switch on all the EPS loads to ensure that the system work properly. Repeat the above operations each time the load on the EPS terminal increases.

Lockable DC Switch / Abschließbarer DC-Schalter / Interrupteur CC verrouillable / Interruptor de CC con bloqueo / Interruptor CC Bloqueável / Vergrendelbare DC-schakelaar / Interruttore CC bloccabile / Blokowany przełącznik prądu stałego / Uzamykatelny DC vypínač / Låsbar DC-brytare / Comutator DC blocabil / Закljučаващ се превключвател за постоянен ток / Låsbar DC-afbryder / Διακόπτης DC με δυνατότητα κλειδώματος / Lukustatav alalisvoolu-lüliti / Lukittava DC-kytkin / Prekidač istosmjernе struje (DC) koji se može blokirati / Zárható DC kapcsoló / Užrakinamas nuolatinės srovės jungiklis / Bloķējams līdzstrāvas slēdzis / Uzamykatelny spinač jednosmerného prúdu / DC stikalo z možnostjo zaklepanja / Kilitlenebilir DC Anahtarı / Interruptor CC bloqueável

Three states



ON

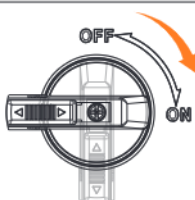


OFF

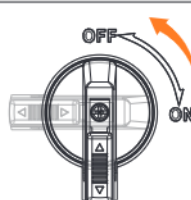


OFF+Lock

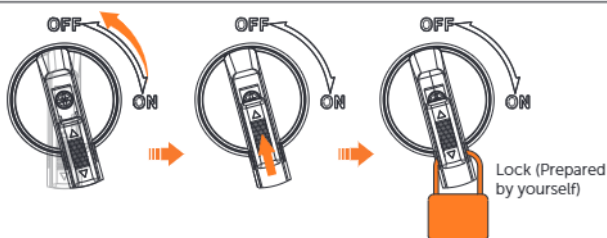
Turn on



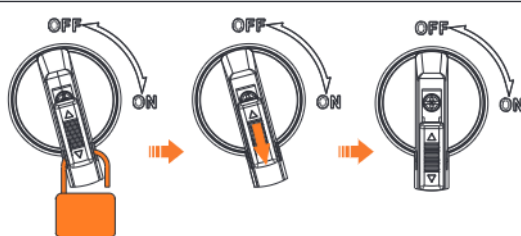
Turn off



Lock



Unlock



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 nastavitve / Genel Ayar / Configuração Geral

1 User Settings

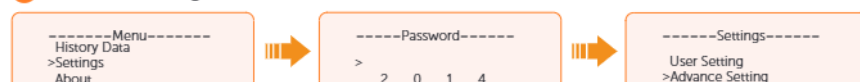


The initial password is 0 0 0 0 which should be changed for the consideration of account security.

- Data&Time,Language



2 Advance Settings



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

- Safety Code



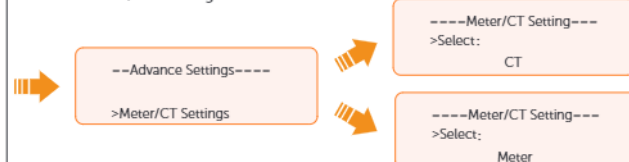
Set the corresponding safety standards according to different countries

- Export Control



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

- Meter / CT Settings

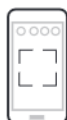


- Shut Down



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 / Konfiguracja 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" konfigurācija / 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.

Technical Data / Technische Daten / Fiche technique / Datos técnicos / Dados Técnicos / Technische gegevens / Dati tecnici / Dane techniczne / Technické údaje / Techniska data / Date tehnice / Технически данни / Tekniske data / Τεχνικά δεδομένα / Tehnilised andmed / Tekniset tiedot / Tehnički podaci / Műszaki adatok / Techniniai duomenys / Tehniskie dati / Technické údaje / Tehnični podatki / Teknik Bilgiler / Dados Técnicos

• DC Input/Output

Model	X3-ULT-15KP	X3-ULT-15K	X3-ULT-19.9K	X3-ULT-20K	X3-ULT-20KP
Max. PV Voltage ¹ [V]			1000		
MPPT Voltage Range ² [V]			160-950		
Max. PV Current ³ [A]	36 / 36 / 36	36 / 36	36 / 36	36 / 36	36 / 36 / 36
I _{sc} PV array Short Circuit Current [A]	45 / 45 / 45	45 / 45	45 / 45	45 / 45	45 / 45 / 45
Battery type			Lithium - ion		
Battery Voltage Range ⁴ [V]			120 - 800		
Max. Charge/Discharge Current [A]			60 (30 * 2)		
Start Output Voltage [V]			200		
Shutdown Input Voltage[V]			130		
Max. inverter backfeed current to the array [A]			0		

Model	X3-ULT-25K	X3-ULT-25KW	X3-ULT-30K	X3-ULT-10K-GLV	X3-ULT-15K-GLV
Max. PV voltage ¹ [V]		1000	1000 (Latin America: 1000 @400 / 230, 380 / 220 V; 600 @230 / 133, 220 / 127 V)		600
MPPT voltage range ² [V]		160-950	160 - 950 (Latin America: 160 - 950 @400 / 230, 380 / 220 V; 160 - 560 @230 / 133, 220 / 127 V)		160-560
Max. PV current ³ [A]	36 / 36 / 36	36 / 36 / 36	36 / 36 / 36	36 / 36	36 / 36 / 36
I _{sc} PV array Short Circuit Current [A]	45 / 45 / 45	45 / 45 / 45	45 / 45 / 45	45 / 45	45 / 45 / 45
Battery type	Lithium - ion				
Battery Voltage Range ⁴ [V]		120 - 800	120 - 800 (Latin America: 120 - 800 @400 / 230, 380 / 220 V; 120 - 550 @230 / 133, 220 / 127 V)		120-550
Max. Charge/Discharge Current [A]	60 (30 * 2)				
Start output voltage [V]	200				
Shutdown input voltage[V]	130				
Max. inverter backfeed current to the array [A]	0				

Note:

¹ The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

² Input voltage exceeding the operating voltage range may triggers inverter protection.

³ PV3 Only available for 15KP, 20KP, 25K, 30K and 15K-GLV. When both strings are connected to a single MPPT, the Max. input current for a single string is 18A; When a single string is connected to one MPPT, the Max input current for a single string is 20 A.

• Battery Data

Model	X3-ULT-15KP	X3-ULT-15K	X3-ULT-19.9K	X3-ULT-20K	X3-ULT-20KP
Battery type	Lithium - ion				
Battery Voltage Range ⁴ [V]	120 - 800				
Max. Charge/Discharge Current [A]	60 (30 * 2)				

Model	X3-ULT-25K	X3-ULT-25KW	X3-ULT-30K	X3-ULT-10K-GLV	X3-ULT-15K-GLV
Battery type	Lithium - ion				
Battery Voltage Range ⁴ [V]		120 - 800	120 - 800 (Latin America: 120 - 800 @400 / 230, 380 / 220; 120 - 550 @230 / 133, 220 / 127		120 - 550
Max. Charge/Discharge Current [A]	60 (30 * 2)				

⁴ When the voltage is below 180V, the inverter will limit the battery current to less than 20 A.

- AC Input/Output

Model	X3-ULT-15KP	X3-ULT-15K	X3-ULT-19.9K	X3-ULT-20K	X3-ULT-20KP
Nominal AC Voltage [V], Frequency [Hz]	3P4W, 400 / 230, 380 / 220, 50 / 60				
Rated Active Power [W]	15000 (14999 for AS4777)	15000 (14999 for AS4777)	19999	20000	20000
Rated AC Output Current [A] (230V)	21.8	21.8	29.0	29.0	29.0
Max. AC Output Continuous Current [A] (230V)	24.0 (21.8 for AS4777)	24.0 (21.8 for AS4777)	29.0	31.9	31.9
Rated AC Output Apparent Power [VA]	15000 (14999 for AS4777)	15000 (14999 for AS4777)	19999	20000	20000
Max. AC Output Apparent Power [VA]	16500 (14999 for AS4777)	16500 (14999 for AS4777)	19999	22000	22000
Power Factor Range	0.8 Leading - 0.8 Lagging				
Max. AC Input Current [A]	50	50	50	50	50
Rated AC Input Apparent Power [VA]	15000	15000	19999	20000	20000
Current (inrush) [A]	65				
Maximum Output Fault Current [A]	100	100	140	140	140
Maximum Output Overcurrent Protection [A]	147	147	163	163	163

Model	X3-ULT-25K	X3-ULT-25KW	X3-ULT-30K	X3-ULT-10K- GLV	X3-ULT-15K- GLV
Nominal AC Voltage [V], Frequency [Hz]	3P4W, 400 / 230, 380 / 220, 50 / 60				
Rated Active Power [W]	25000 (24900 for VDE4105)	25000	30000 (Latin America: 30000 @400 / 230, 380 / 220; 15000 @230 / 133, 220 / 127)	9999	15000
Rated AC Output Current [A] (230V)	36.3	36.3	43.5 (Latin America: 43.5 @400 / 230; 45.5 @380 / 220; 37.6 @230 / 133; 39.4 @220 / 127)	25.2	37.7
Max. AC Output Continuous Current [A] (230V)	39.9 (36.3 for VDE 4105)	36.3	43.5 (Latin America: 43.5 @400 / 230; 45.5 @380 / 220; 37.6 @230 / 133; 39.4 @220 / 127)	25.2	37.7
Rated AC Output Apparent Power	25000 (24900 for VDE4105)	25000	30000 (Latin America: 30000 @400 / 230, 380 / 220; 15000 @230 / 133, 220 / 127)	9999	15000

Model	X3-ULT-25K	X3-ULT-25KW	X3-ULT-30K	X3-ULT-10K-GLV	X3-ULT-15K-GLV
Max. AC Output Apparent Power	27500 (24900 for VDE4105)	25000	30000 (Latin America: 30000 @400 / 230, 380 / 220; 15000 @230 / 133, 220 / 127)	9999	15000
Power Factor Range	0.8 Leading - 0.8 Lagging				
Max. AC Input Current [A]	50	50	50	50	50
Rated AC Input Apparent Power	25000	25000	30000 (Latin America: 30000 @400 / 230, 380 / 220; 15000 @230 / 133, 220 / 127)	10000	15000
Current (inrush) [A]	65				
Maximum Output Fault Current [A]	155	155	175	100	155
Maximum Output Overcurrent Protection [A]	172	172	181	147	172

• EPS Output

Model	X3-ULT-15KP	X3-ULT-15K	X3-ULT-19.9K	X3-ULT-20K	X3-ULT-20KP
Nominal EPS Voltage [A], Frequency [Hz]	3P4W, 400 / 230, 380 / 220, 50 / 60				
Rated EPS Current [A] (230V)	21.8	21.8	29.0	29.0	29.0
Rated EPS Apparent Power [VA]	15000	15000	19999	20000	20000

Model	X3-ULT-25K	X3-ULT-25KW	X3-ULT-30K	X3-ULT-10K-GLV	X3-ULT-15K-GLV
Nominal EPS Voltage [V], Frequency [Hz]	3P4W, 400 / 230, 380 / 220, 50 / 60		3P4W, 400 / 230, 380 / 220, 50 / 60 (Latin America: 3P4W, 400 / 230, 380 / 220, 230 / 133; 220 / 127, 50/60)	3P3W, 230 / 133, 220 / 127 50 / 60	
Rated EPS Current [A] (230V)	36.3	36.3	43.5 (Latin America: 43.5 @400 / 230; 45.5 @380 / 220; 37.6 @230 / 133; 39.4 @220 / 127)	25.2	37.7
Rated EPS Apparent Power [VA]	25000	25000	30000 (Latin America: 30000 @400 / 230, 380 / 220; 15000 @230 / 133, 220 / 127)	10000	15000

- Others

Model	X3-ULT-15KP	X3-ULT-15K	X3-ULT-19.9K	X3-ULT-20K	X3-ULT-20KP
	X3-ULT-25K	X3-ULT-25KW	X3-ULT-30K	X3-ULT-10K-GLV	X3-ULT-15K-GLV
Operating Temperature Range [°C]	-35 - 60 (Derating above +45)				
Humidity [%]	0 - 100				
Altitude [m]	< 3000				
Ingress Protection	IP66				
Protection Class	I				
Over Voltage Category	PV: II ; Main: III				
Topology	Transformerless				
Active Anti-islanding Method	Yes				
Pollution Degree	PD3				
Safety	EN / IEC 62109 -1 / -2				
EMC	EN61000-6-1/2/3/4; EN61000-3-11/12; EN 5011; IEC 62920				
Certification	VDE4105 / G99 / AS4777 / EN50549 / CEI 0-21 / IEC61727 / PEA / MEA / NRS-097-2-1 / RD1699 / TOR / INMETRO ⁵				

⁵ INMETRO: Applicable only to the model X3-ULT-30K in Brazil.

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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