



X1-BOOST G4

2.5 kW / 3 kW / 3.3 kW / 3.6 kW /
4 kW / 4.2 kW / 5 kW / 6 kW

Installation Manual

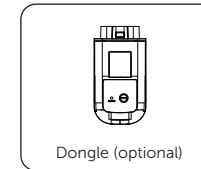
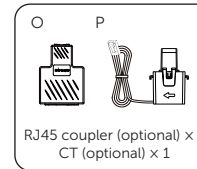
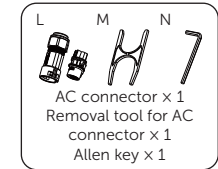
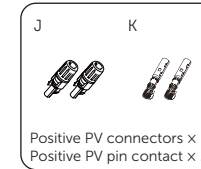
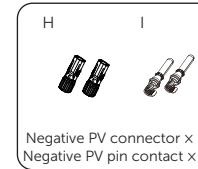
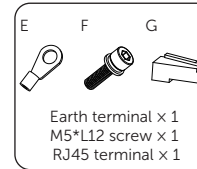
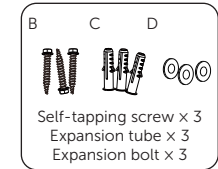
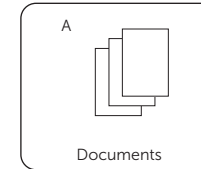
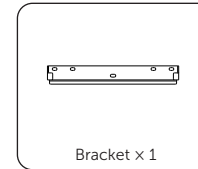
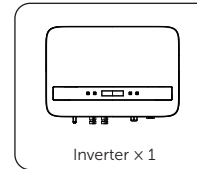
Version 1.0

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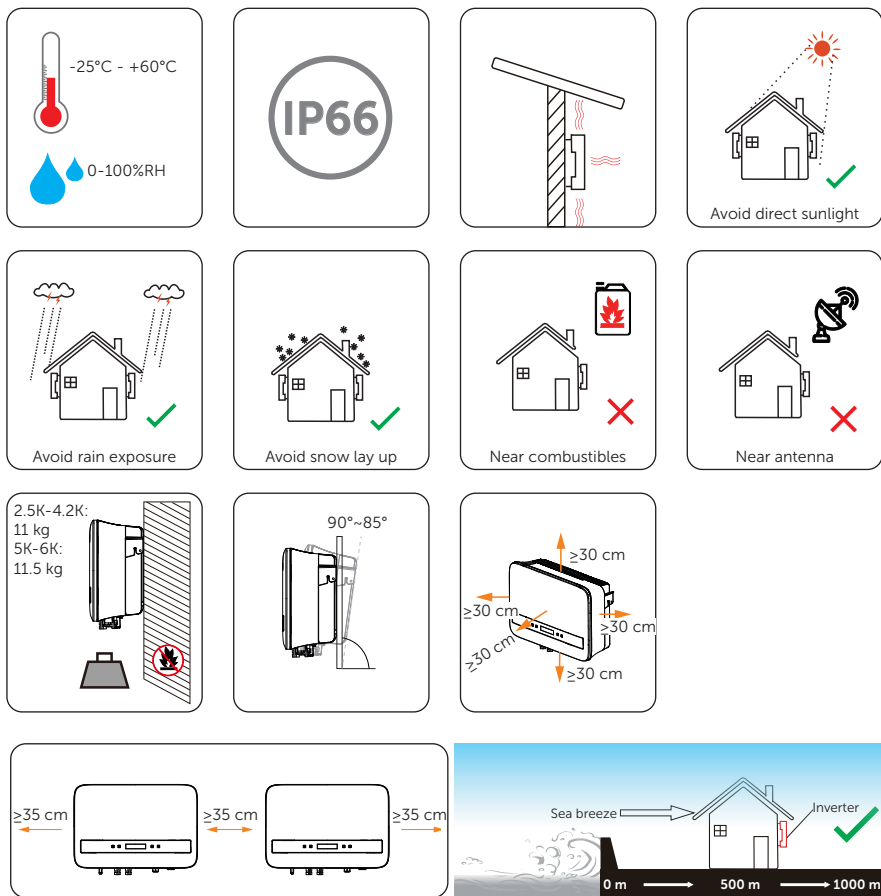
Packing List / Packliste / Liste du matériel livré / Lista de piezas / Lista da embalagem / Paklijst / Contenuto della confezione / Zawartość opakowania / Seznam balení / Packlista / Listă de ambalare / Опаковъчен лист / Pakkeliste / Λίστα συσκευασίας / Pakkeleht / Pakkausluettelo / Popis pakiranja /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



Note:

- Refer to the actual delivery for the optional accessories.

Installation Site / Installationsort / Site d'installation / Sitio de instalación / Local de instalação / Installatiesite / Sito di installazione / Miejsce instalacji / Misto instalace / Installationsplats / Loc de instalare / Монтажен объект / Monteringssted / Τόπος εγκατάστασης / Paigaldamise koht / Aseennuspaikka / Lokacija ugradnje / Telepítési helyszín / Montavimo vieta / Uzstādišanas vieta / Miesto inštalácie / Mesto namestitve / Место Установки / Місце монтажу / Kurulum Yeri / Local de Instalação



NOTICE

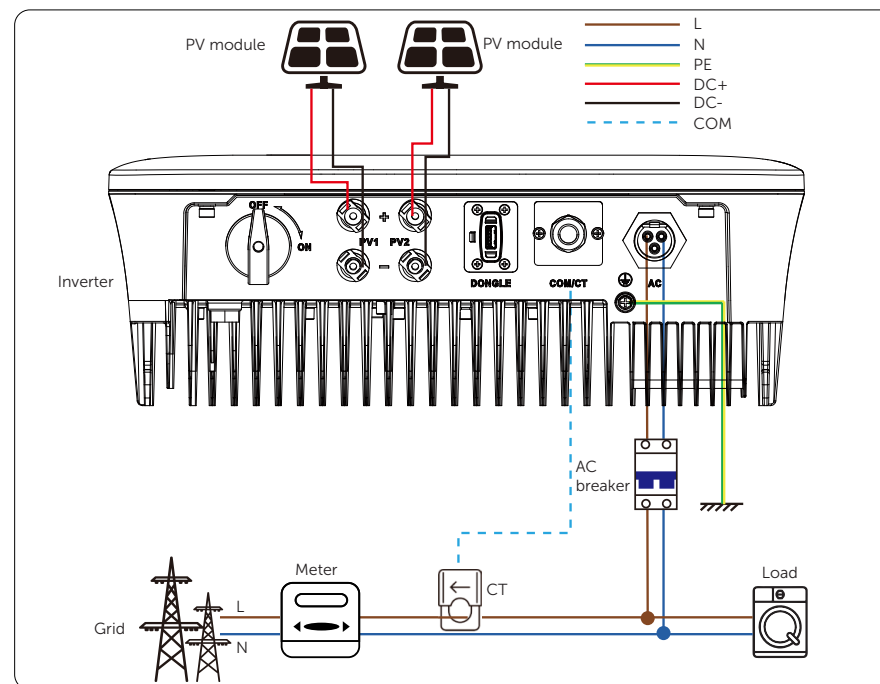
- For outdoor installation, precautions against direct sunlight, rain exposure and snow accumulation are recommended.
- Exposure to direct sunlight raises the temperature inside the device. This temperature rise poses no safety risks, but may impact the device performance.

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

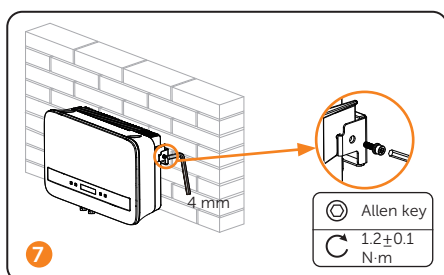
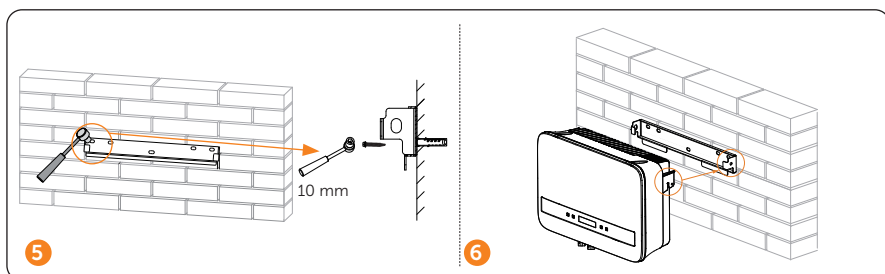
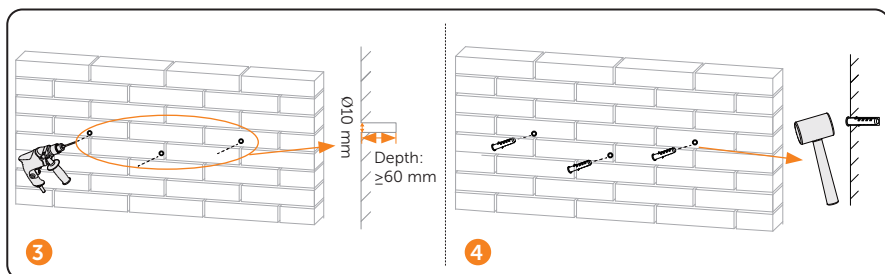
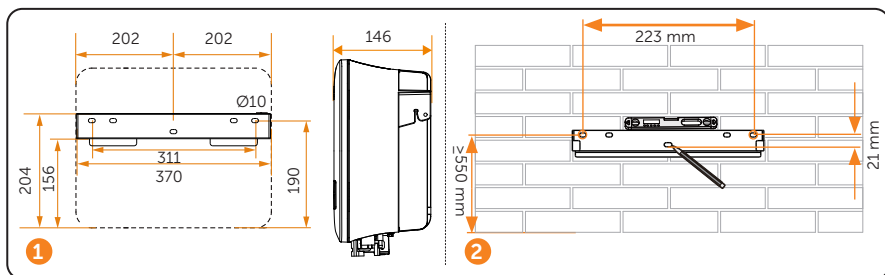
Note:

- Breaker recommended

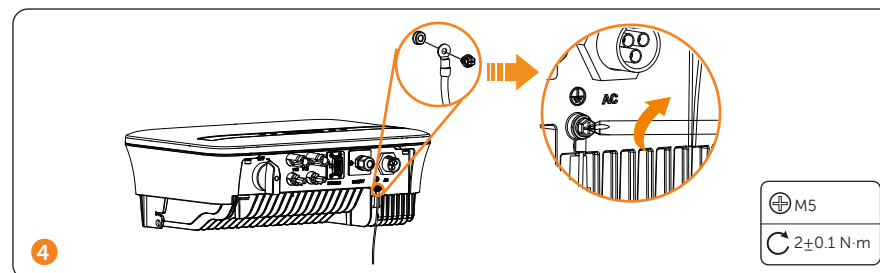
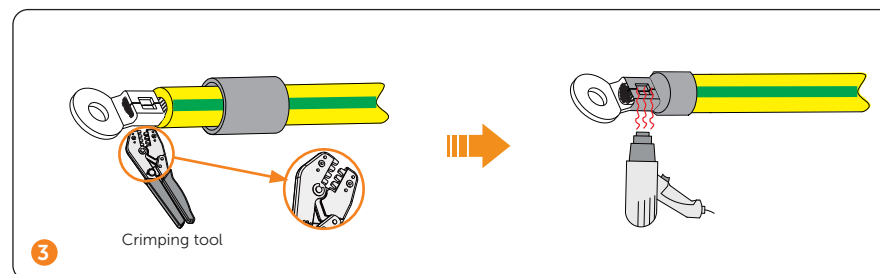
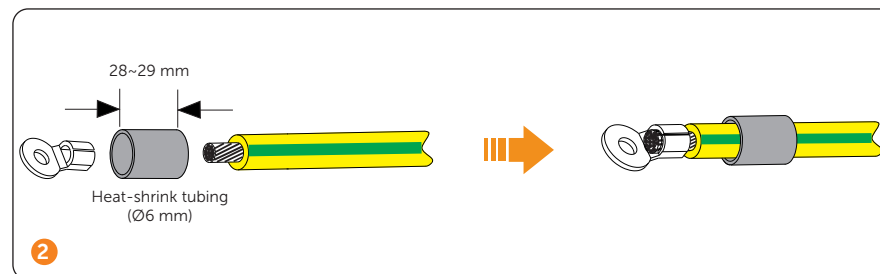
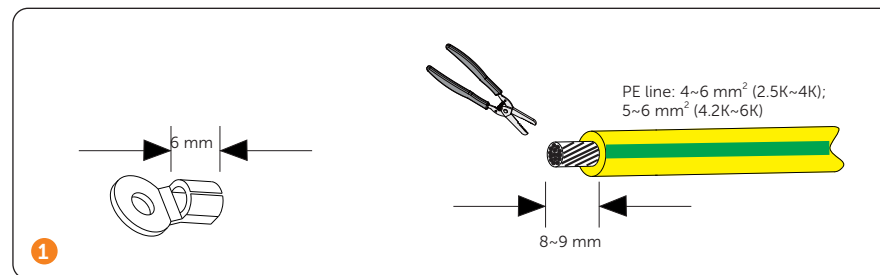
Model	2.5K	3K	3.3K	3.6K	4K	4.2K	5K	6K
AC breaker	20 A	20 A	20 A	20 A	20 A	25 A	32 A	32 A



Mechanical Installation / Mechanische Installation / Installation mécanique / Instalación mecánica / Instalação mecânica / Mechanische installatie / Installazione meccanica / Instalacja mechaniczna / Mechanická instalace / Mechanisk installation / Μηχανική εγκατάσταση / Mehaaniline paigaldus / Mekaaninen asennus / Mehanička ugradnja / Mechanikai telepítés / Mechaninis montavimas / Mehāniskā uzstādīšana / Mechanická inštalácia / Mehanska namestitev / Механическая Установка / Механічне встановлення / Mekanik Kurulum / Instalação Mecânica



PE Connection / Schutzerdungs-Anschluss / Connexion PE / Conexión PE / Ligaçãõ à Terra / PE-aansluiting / Collegamento PE / Potężenie PE / PE prípojeni / PE-anslutning / Conexiune PE / PE връзка (земя) / Jordforbindelse / Σύνδεση PE / PE ühendus / PE-yhteys / PE priključak / PE bekötés / PE (apsauginio įžemimino) kontaktas / PE savienojums / Pripojenie ochranného vodiča / PE povezava / Подключение заземления / Підключення заземлення / PE Bağlantısı / Conexão PE



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 / Во́щні пpіпо́єні стpідавého пpоуду / Anslutning på AC-sidan / Conexiune laterală c.a. / Свpързване от AC страната / AC-sidetilslutning / Πλαϊνή σύνδεση AC / Vahelduvoolupoolne ühendus / AC-puolen liitäntä / Priklučak za izmjeničnu struju (AC) / Váltóáram-oldali bekötés / AC (kint. sr.) šoninis kontaktas / Maiņstrāvas puses savienojums / Pripojenje na strane striedavého ppúdu / AC stranska rovezava / Подключе́ние на стороне переменного тока AC / Підключе́ння живлення змінного струму / AC Yan Bađlantı / Conexão do Lado CA

1 L/N/PE line: 4~6 mm² (2.5K~4K); 5~6 mm² (4.2K~6K)
* The cross-sectional area of PE line should be the same as that of L/N line.

2 Separate these parts

3 AC cable

4 0.5 ± 0.1 N·m

5 Click!

6 3 ± 0.3 N·m

7 Click!

DC Side Connection / Gleichstrom-seitiger Anschluss / Connexion côté CC / Conexión lateral de CC / Ligação lateral CC / Aansluiting gelijkspanningszijde / Collegamento lato CC / Połączenie po stronie DC / Во́щні пpіпо́єні стeйносмp̀рného пpоуду / Anslutning på DC-sidan / Conexiune laterală c.c. / Свpързване от DC страната / DC-sidetilslutning / Πλαϊνή σύνδεση DC / Alalisvoolupoolne ühendus / DC-puolen liitäntä / Priklučak za istosmjernu struju (DC) / Egyenáram-oldali bekötés / DC (nuol. sr.) šoninis kontaktas / Lidzstrāvas puses savienojums / Pripojenje na strane jednosmerného ppúdu / DC stranska rovezava / Підключе́ння живлення змінного струму / Підключе́ння живлення постійного струму / DC Yan Bađlantı / Conexão do Lado CC

1 PV line: 4~6 mm² (2.5K~4K); 5~6 mm² (4.2K~6K)

2 Positive PV pin contact
Negative PV pin contact

3 Crimping tool for PV terminal

4 Positive PV connector
Negative PV connector

5 Click!

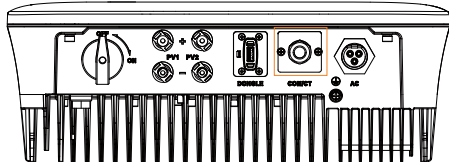
6 < 600 V

7 * Remove the terminal caps.

8 Click!
* Seal the unused PV terminals with the dustproof buckles

Communication Connection / Kommunikations-Anschluss / Branchement de communication / Conexión de comunicación / Ligação à Comunicação / Communicatie-aansluiting / Collegamento comunicazione / Połączenie komunikacyjne / Komunikacijski prirojeni / Kommunikationsanslutning / Conexiune de comunicare / Коммуникационная връзка / Kommunikationsforbindelse / Σύνδεση επικοινωνίας/Sideühendus / Tiedonsiirtoliitäntä / Priključak za komunikaciju / Komunikacijski bekötës / Duomenų ryšys / Sakaru savienojums / Pripojenie komunikácie / Komunikacijska rovezava / Подключеніе связи / Підключення передачі даних / İletişim Bağlantısı / Conexão de Comunicação

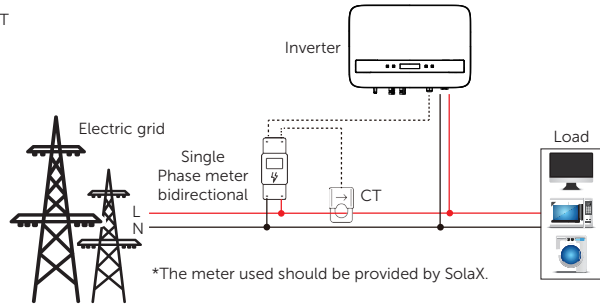
Pin assignment of meter/CT, RS485, DRM



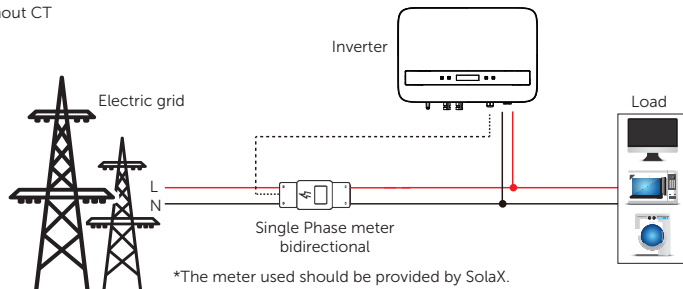
Function	CT	DRM	Heat Pump	RS485/ Meter	RS485/ Meter	Heat Pump	DRM	CT
Pin	1	2	3	4	5	6	7	8
Pin Definition	CT+	DRM0	Heat Pump-	485_A	485_B	Heat Pump+	+3.3V	CT-

*DRM0 here is for AS4777.2 AU/NZ.

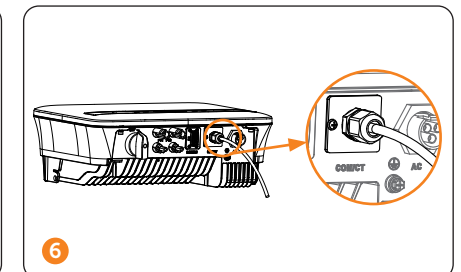
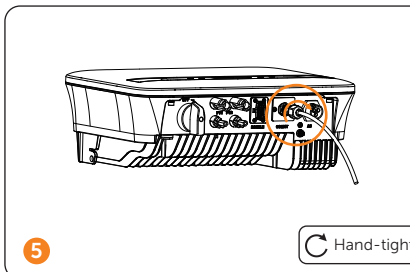
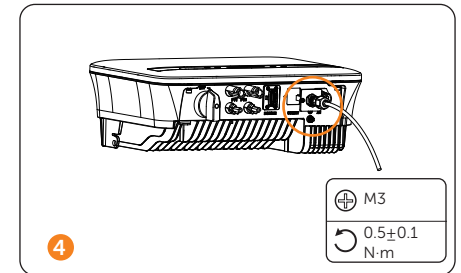
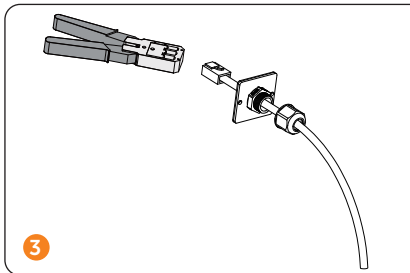
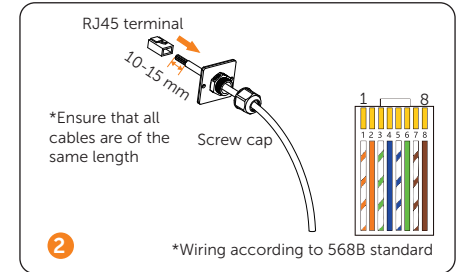
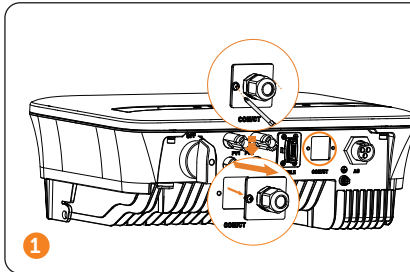
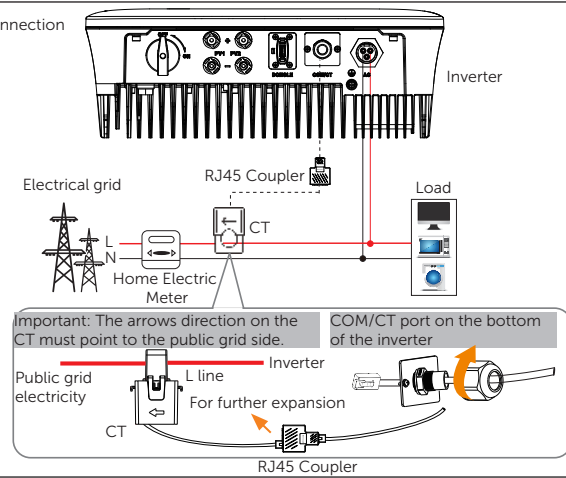
For meter with CT



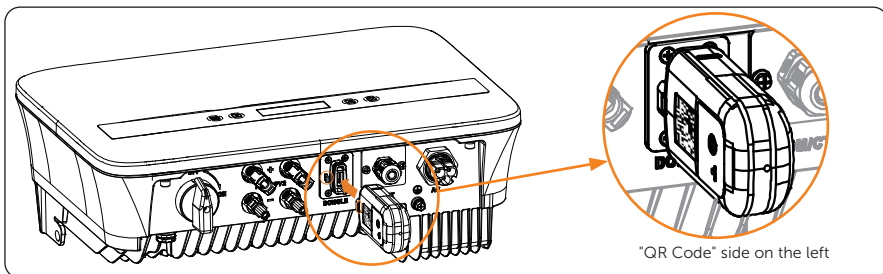
For meter without CT



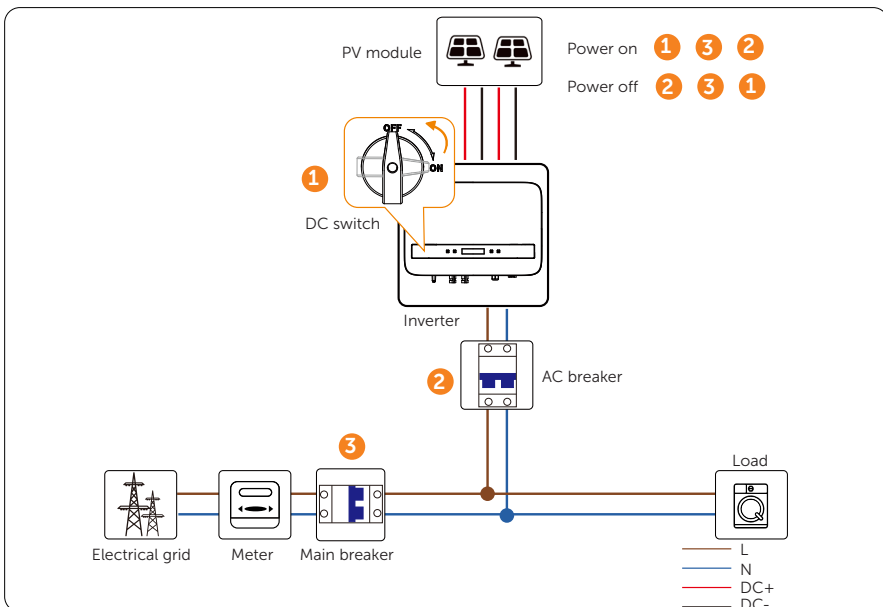
For direct CT connection



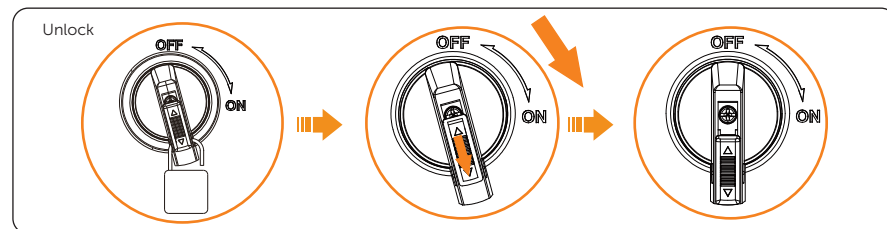
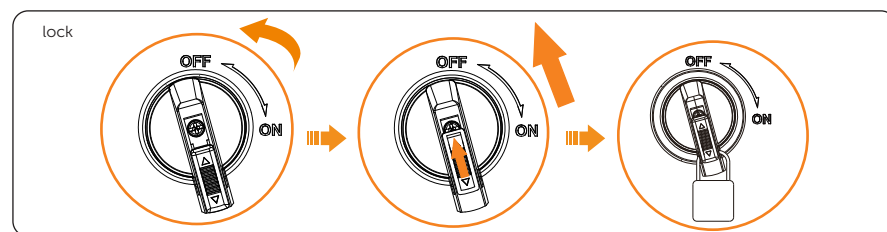
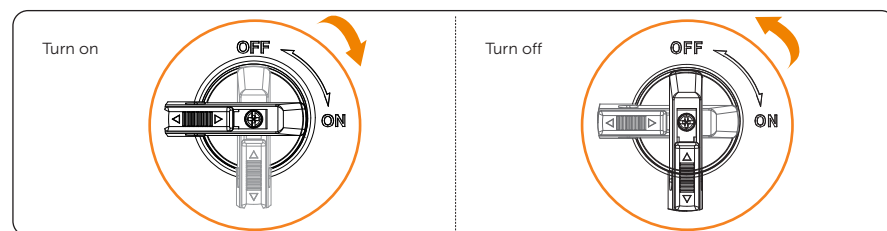
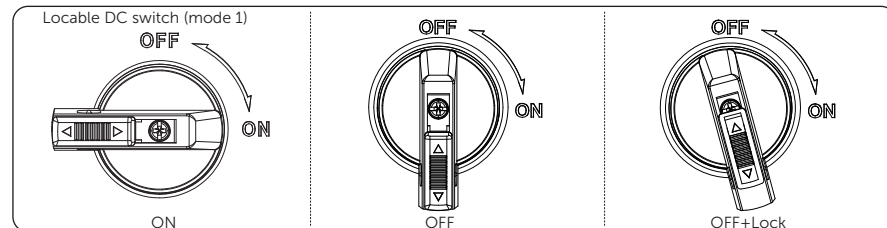
Monitoring Connection / Überwachungs-Anschluss / Branchement de surveillance / Conexión de monitorización / Ligação à Monitorização / Monitoring-aansluiting / Collegamento monitoraggio / Połączenie na potrzeby monitorowania / Pripojení ke sledování / Övervakningsanslutning / Conexiune de monitorizare / Мониторингова връзка / Overvågningsforbindelse / Σύνδεση παρακολούθησης / Seire ühendus / Valvontaliitäntä / Priključak za nadzor / Monitoring bekötés / Stebėjimo ryšys / Uzraudzības savienojums / Pripojenie monitorovania / Povezava za spremljanje / Подключеніе мониторинга / Підключення моніторингу / İzleme Bağlantısı / Conexão de Monitoramento

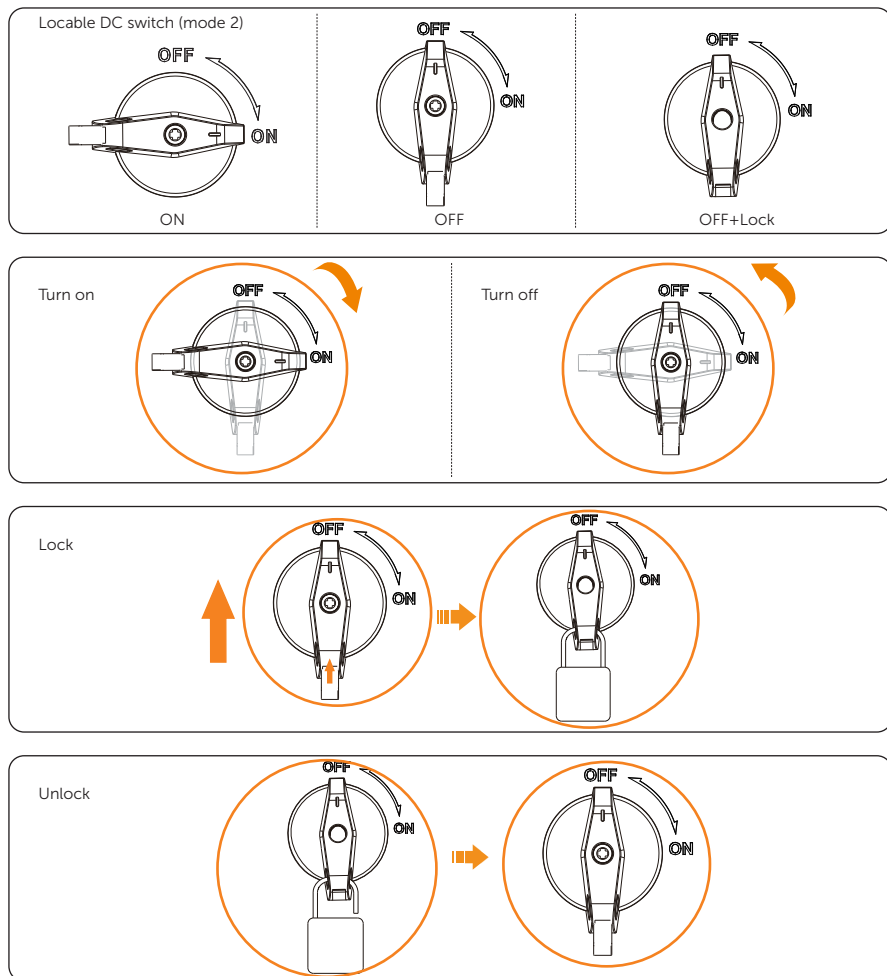


Power On/Off / Einschalten/Ausschalten / Marche/Arrêt / Encendido/apagado / Ligar/Desligar / In-/uitschakelen / Accensione/Spengimento / Włączanie/wyłączenie zasilania / ZAP/VYP / Ström på/av / Pornire/Oprire / Включване/изключване / Strøm til/fra / Ενεργοποίηση/Απενεργοποίηση / Toide sisse/välja / Virta päälle/pois / Uključivanje/isključivanje napajanja / Be-/kikapcsolás / Maitinimo įjungimas / išjungimas / Barošanas ieslēgšana/izslēgšana / Napájanie zapnuté/vyprnuté / Vklöp/izklöp / Включеніе/выключеніе питания / Увімкнення/вимкнення живлення / Güç Açık/Kapalı / Ligar/Desligar

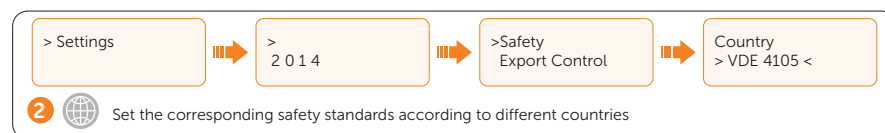


Lockable DC Switch / Abschließbarer DC-Schalter / Interrupteur CC verrouillable / Interruptor de CC con bloqueo / Interruptor CC Bloqueável / Vergrendelbare DCschakelaar / Interruttore CC bloccabile / Blokowany przelazcznik pradu statego / Uzamykatelny DC vypinač / Låsbar DC-brytare / Comutator DC blocabil / Заклучващ се превключвател за постоянен ток / Låsbar DC-afbryder / Διακόπτης DC με δυνατότητα κλειδώματος / Lukustatav alalisvoolu-lüliti / Lukittava DC-kytkin / Prekidač istosmjernje struje (DC) koji se može blokirati / Zárható DC kapcsoló / Užrakinamas nuolatinės srovės jungiklis / Bloķējams līdzstrāvas slēdzis / Uzamykatelný spínač jednosmerného prúdu / DC stikalo z možnosťo zaklepanja / Переключатель DC Блокируемый / Перемикач DC, Що Блокується / Kilitlenebilir DC Anahtar / Interruptor CC bloqueável





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 / Yleisasetus / Opće postavke / Általános beállítás / Bendrasis nustatymas / Vispārīgs iestatījums / Všeobecné nastavenie / Splošna nastavitve / Общие настройки / Загальні налаштування / Genel Ayar / Configuração Geral



*The default password is 2014 for the installer, which only allows the installer to review and modify necessary settings complying to the local rules and regulations. If further advanced setting is required, please contact the distributor or us for assistance.

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

• DC input

Model	X1-BOOST-2.5K-G4	X1-BOOST-3K-G4	X1-BOOST-3.3K-G4	X1-BOOST-3.6K-G4
Max. PV voltage [d.c.V]	600	600	600	600
MPPT voltage range [d.c.V]	40-560	40-560	40-560	40-560
Max. PV current [d.c.A]		16/16		
I _{sc} PV array Short Circuit SC Current [d.c.A]		22/22		
Max. inverter backfeed current to the array [d.c.A]		0		

Model	X1-BOOST-4K-G4	X1-BOOST-4.2K-G4	X1-BOOST-5K-G4	X1-BOOST-6K-G4
Max. PV voltage [d.c.V]	600	600	600	600
MPPT voltage range [d.c.V]	40-560	40-560	40-560	40-560
Max. PV current [d.c.A]		16/16		
I _{sc} PV array Short Circuit SC Current [d.c.A]		22/22		
Max. inverter backfeed current to the array [d.c.A]		0		

• AC output

Model	X1-BOOST-2.5K-G4	X1-BOOST-3K-G4	X1-BOOST-3.3K-G4	X1-BOOST-3.6K-G4
Rated output apparent power [VA]	2500	3000	3300	3680
Nominal AC output current [a.c.A]	10.9	13.1	14.4	16
Max. output apparent power [VA]	2750	3300	3630	4048 ¹
Max. output continuous current [a.c.A]	12	14.4	15.8	17.6 ²
Nominal AC voltage [a.c.V]/ Grid range	220/230/240; 90-290			
Nominal grid frequency [Hz]	50/60; ±5			
Displacement power factor	0.8leading-0.8lagging			
Nominal AC Voltage [a.c.V]	220/230/240			
Current (inrush) [a.c.A]	13.5			
Maximum output fault current [a.c.A]	59 (3 ms)			
Maximum output overcurrent protection [a.c.A]	50			

Model	X1-BOOST-4K-G4	X1-BOOST-4.2K-G4	X1-BOOST-5K-G4	X1-BOOST-6K-G4
Rated output apparent power [VA]	4000	4200	5000 ⁵	6000
Nominal AC output current [a.c.A]	17.4 ³	18.3	21.7 ⁶	26.1 ⁹
Max. output apparent power [VA]	4000	4620	5000 ⁷	6000
Max. output continuous current [a.c.A]	17.4 ⁴	20.1	21.7 ⁸	27.3
Nominal AC voltage [a.c.V]/ Grid range	220/230/240; 90-290			
Nominal grid frequency [Hz]	50/60; ±5			
Displacement power factor	0.8leading-0.8lagging			
Nominal AC Voltage [a.c.V]	220/230/240			
Current (inrush) [a.c.A]	50			
Maximum output fault current [a.c.A]	58 (15 ms)			

Model	X1-BOOST-4K-G4	X1-BOOST-4.2K-G4	X1-BOOST-5K-G4	X1-BOOST-6K-G4
Maximum output overcurrent protection [a.c.A]			35	

Note:

1. 4048 (3680 for G98, TOR and PPDS)
2. 17.6 (16 for G98, TOR and PPDS)
3. 17.4 (16 for G98)
4. 17.4 (16 for G98)
5. 5000 (4600 for VDE4105; 4999 for AS4777.2)
6. 21.7 (20 for VDE4105)
7. 5000 (4600 for VDE4105; 4999 for AS4777.2)
8. 21.7 (20 for VDE4105)
9. 26.1 (25 for EN50549_Ireland)

• System Data, Protection and Standard

Model	X1-BOOST-2.5K-G4	X1-BOOST-3K-G4	X1-BOOST-3.3K-G4	X1-BOOST-3.6K-G4
Ingress protection	IP66			
Protective class	I			
Overvoltage category	II (DC), III (AC)			
Operating ambient temperature range [°C]	-25-60			
Max. operation altitude [m]	4000			
Humidity [%]	0-100			
Pollution degree	III			
Storage temperature [°C]	-30-70			
Safety	EN/IEC62109-1/2			
Grid monitoring	IEC61727, EN50549, G98/G99, AS 4777.2, VDE4105, CEI 0-21, VFR, PPDS, TOR			
Inverter typology	Non-isolated			
Active anti-islanding method	Frequency shift			

Model	X1-BOOST-4K-G4	X1-BOOST-4.2K-G4	X1-BOOST-5K-G4	X1-BOOST-6K-G4
Ingress protection	IP66			
Protective class	I			
Overvoltage category	II (DC), III (AC)			
Operating ambient temperature range [°C]	-25-60			
Max. operation altitude [m]	4000			
Humidity [%]	0-100			
Storage temperature [°C]	-30-70			
Pollution degree	III			
Safety	EN/IEC62109-1/2			
Grid monitoring	IEC61727, EN50549, G98/G99, AS 4777.2, VDE4105, CEI 0-21, VFR, PPDS, TOR			
Inverter typology	Non-isolated			
Active anti-islanding method	Frequency shift			

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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