



X3-PRO G2

8 kW / 10 kW / 12 kW / 15 kW
17 kW / 20 kW / 25 kW / 30 kW

Installation Manual

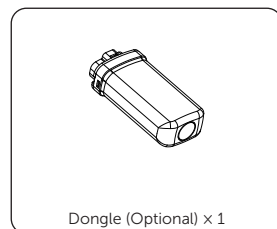
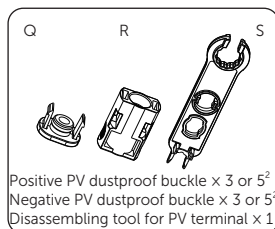
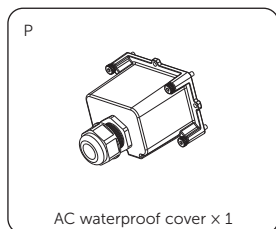
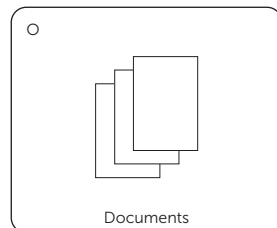
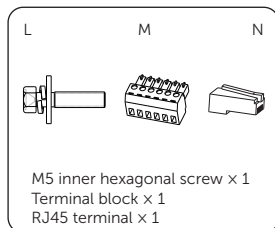
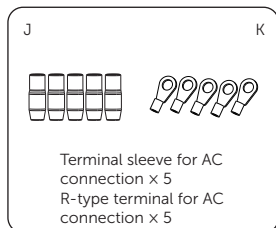
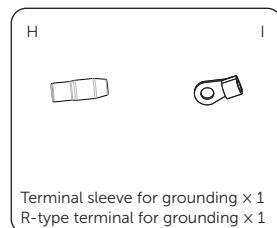
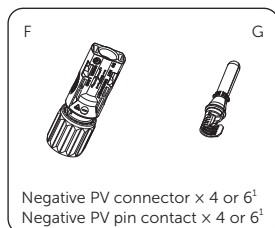
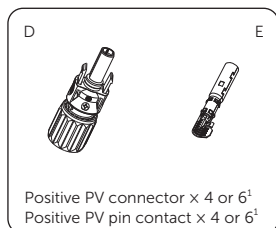
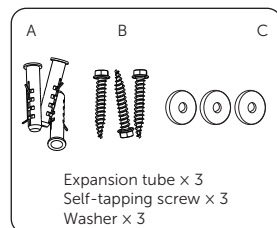
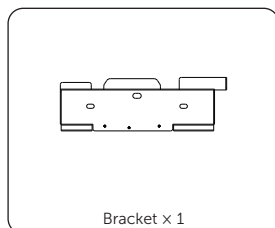
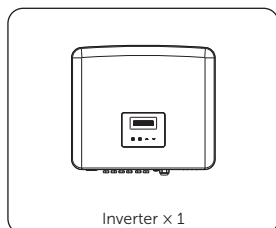
Version 0.0

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eManual in the QR code or
at <http://fs.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 / Iepakoījuma saraksts / Zoznam položiek balenia / Seznam pakiranja / Kutu Listesii / Lista de Embalagem



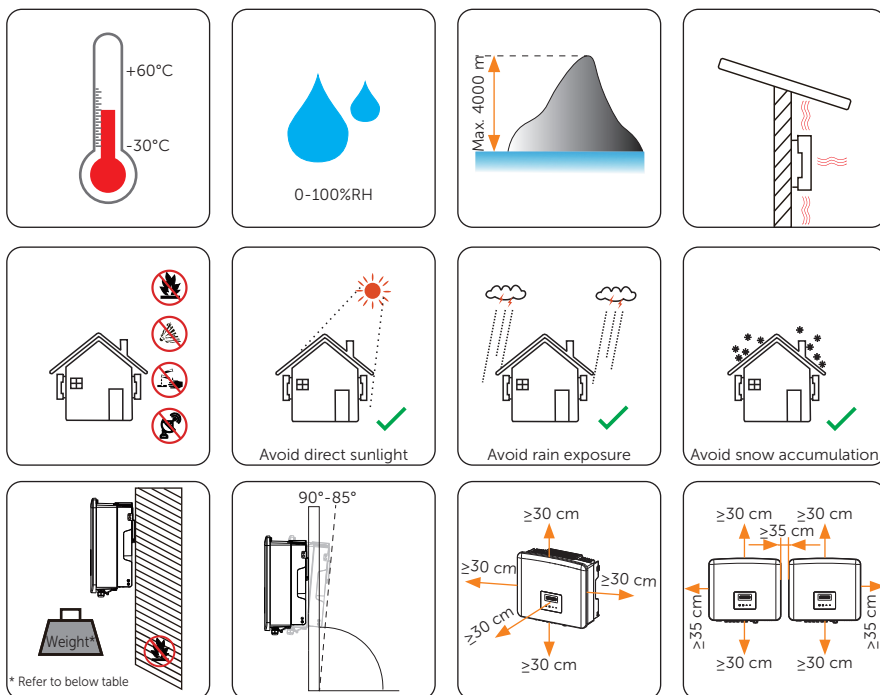
Note:

* Refer to the actual delivery for the optional accessories.

¹ 4 pcs for inverters with two inputs of MPPT,
6 pcs for inverters with three inputs of MPPT.

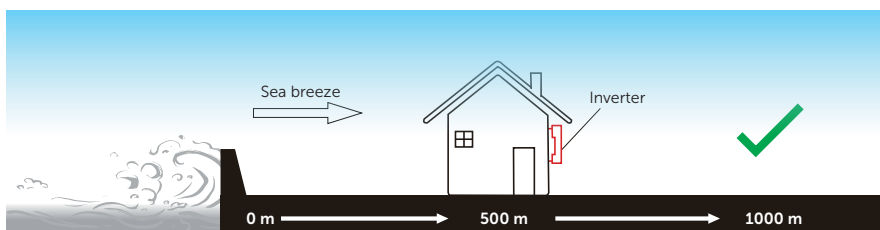
² 3 pcs for inverters with two inputs of MPPT,
5 pcs for inverters with three inputs of MPPT.

Mounting Location / Montageort / Emplacement de montage / Ubicación de montaje / Localização de montagem / Bevestigingslocatie / Posizione di montaggio / Lokalizacja miejsca montażu / Montážní místo / Monterings plats / Locație de montare / Место за монтаж / Monteringssted / Τοποθεσία στερέωσης / Paigalduskoht / Asennuspaikka / Mjesto postavljanja / Rögzítési hely / Montavimo vieta / Montāžas vieta / Miesto inštalácie / Mesto namestitve / Montaj Konumu / Local de montagem



Models	8 kW ~ 12 kW	15 kW ~ 20 kW	25 kW ~ 30 kW	10 kW-LV	12 kW-LV ~ 15 kW-LV
Net weight (kg)	24.5	26*	28	27.5	28

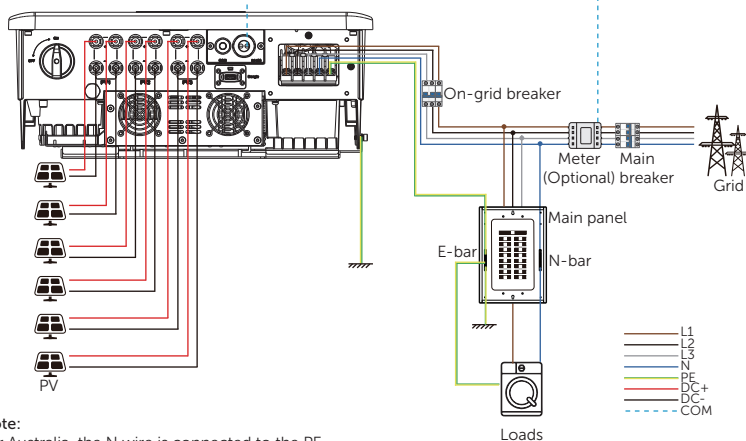
* Optional with 3 inputs of MPPT: 27.5 kg



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



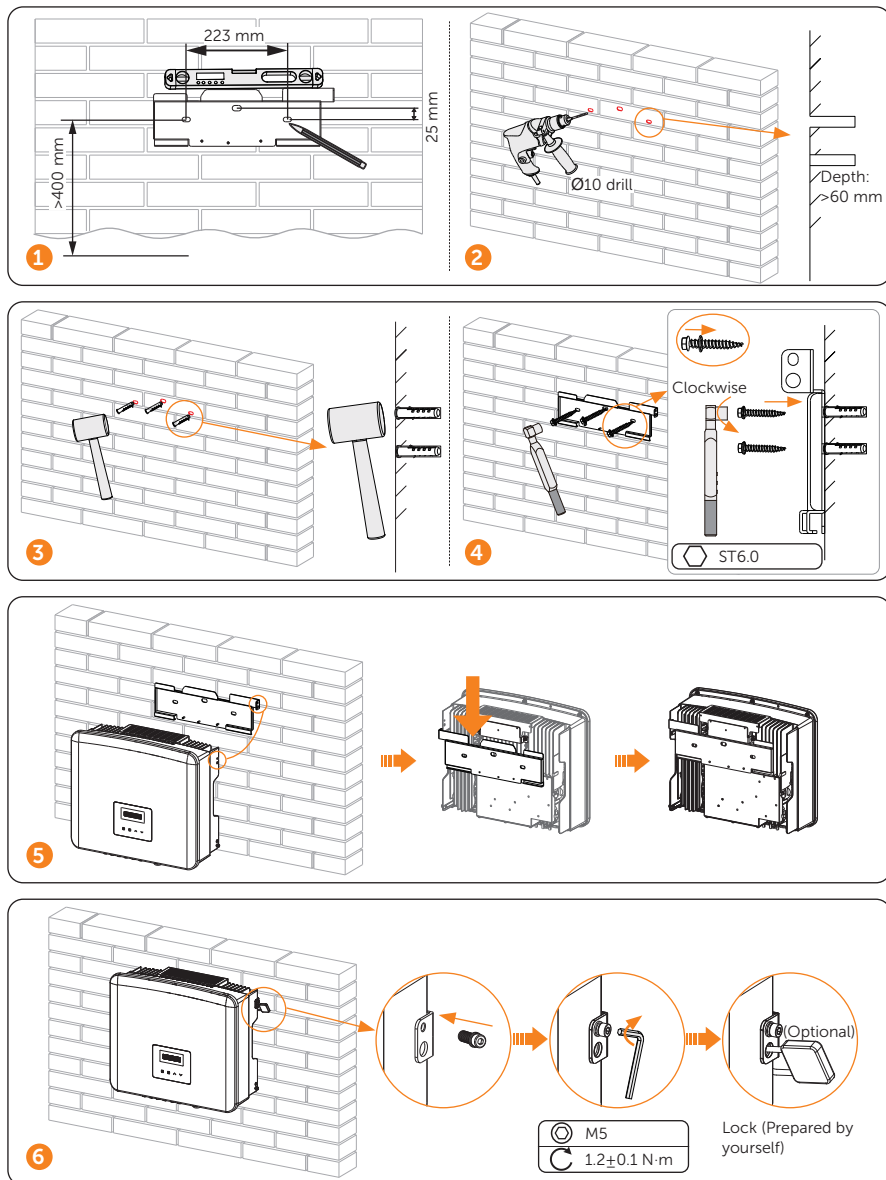
- Breaker recommended

Model	X3-PRO-8K-G2	X3-PRO-10K-G2	X3-PRO-12K-G2	X3-PRO-15K-G2	X3-PRO-17K-G2
On-grid breaker	20 A	20 A	25 A	32 A	40 A

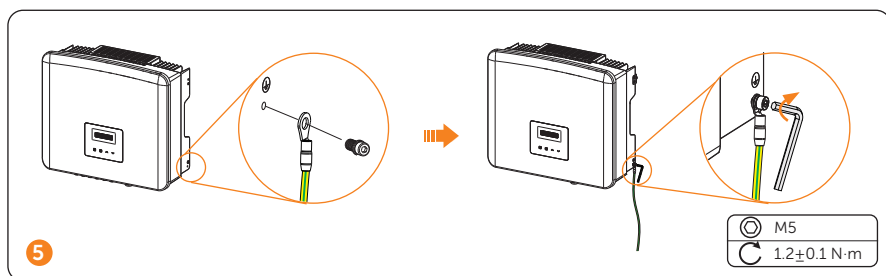
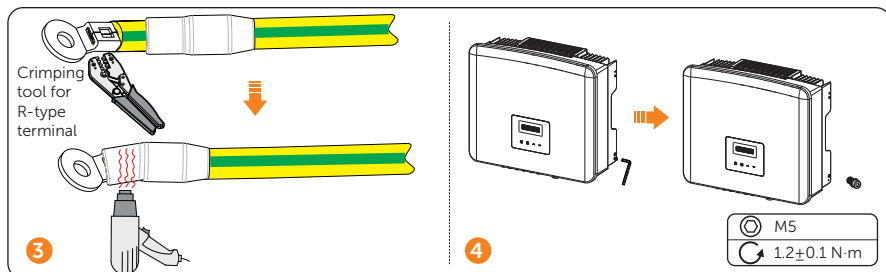
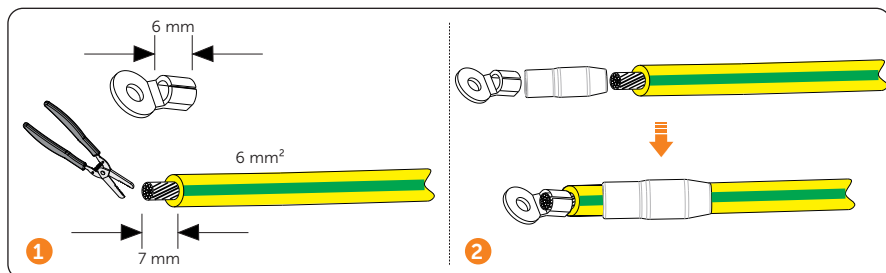
Model	X3-PRO-20K-G2	X3-PRO-25K-G2	X3-PRO-30K-G2	X3-PRO-10KW-G2	X3-PRO-25KW-G2
On-grid breaker	40 A	50 A	63 A	20 A	50 A

Model	X3-PRO-10K-G2-LV		X3-PRO-12K-G2-LV		X3-PRO-15K-G2-LV
On-grid breaker	40 A		50 A		63 A

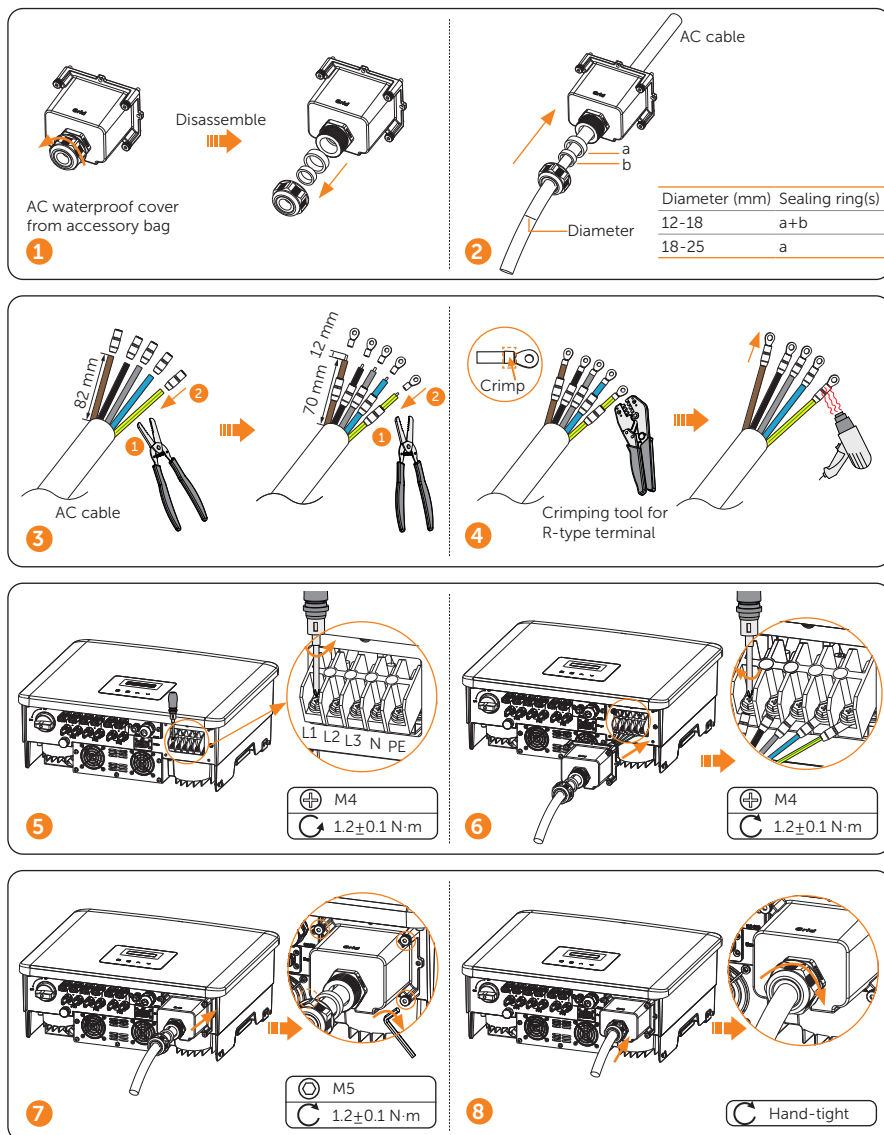
Mechanical Installation / Mechanische Installatie / Installation mécanique / Instalación mecánica / Instalação mecânica / Mechanische installatie / Installazione meccanica / Instalacja mechaniczna / Mechanická instalace / Mekanisk installation / Instalare mecanică / Механичен монтаж / Mekanisk installation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



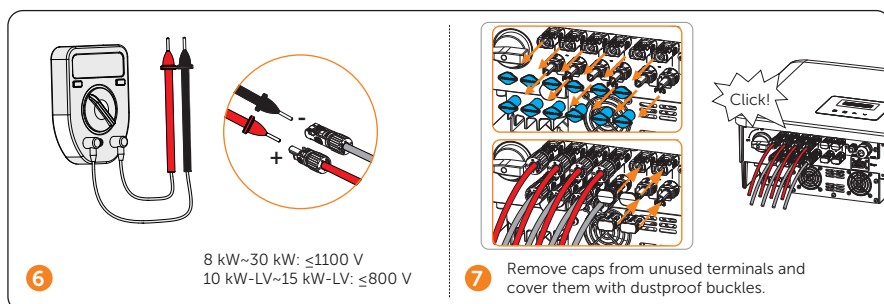
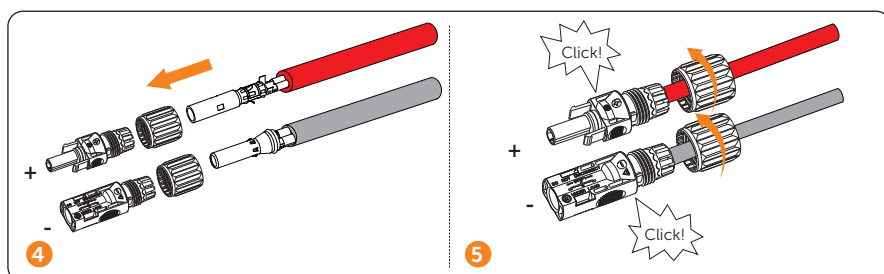
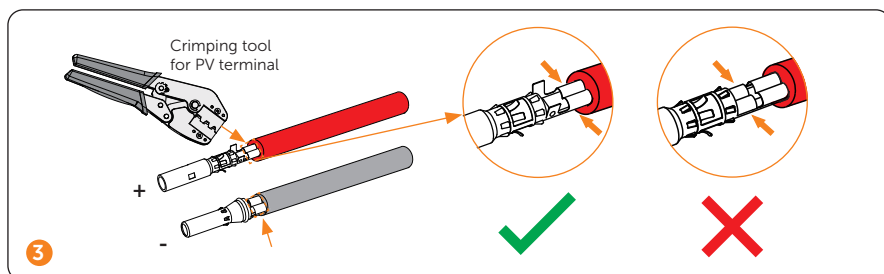
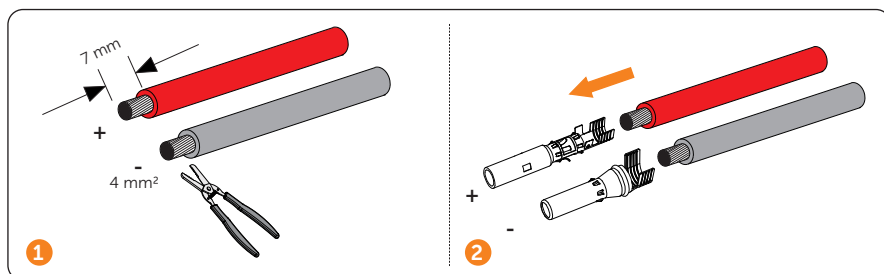
PE Connection / Schutzerdungs-Anschluss / Connexion PE / Conexión PE / Ligação à Terra / PE-aansluiting / Collegamento PE / Połączenie PE / PE připojení / PE-anslutning / Conexiune PE / PE връзка (земя) / Jordforbindelse / Σύνδεση PE / PE ühendus / PE-yhteys / PE priključak / PE bekötés / PE (apsauginio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



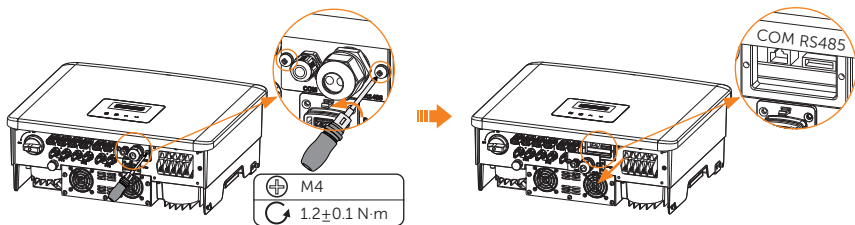
AC Side Connection / Wechselstrom-seitiger Anschluss / Connexion côté CA / Conexión lateral de CA / Ligação lateral CA / Aansluiting wisselspanningszijde / Collegamento lato CA / Połączenie po stronie AC / Boční připojení střídavého proudu / Anslutning på AC-sidan / Conexiune laterală c.a. / СВЪРЗАВАНЕ ОТ АС СТРАНАТА / AC-sidetilslutning / Πλαϊνή σύνδεση AC / Vahelduvvoolupoolne ühendus / AC-puolen liitäntä / Priključak za izmjeničnu struju (AC) / Váltóáram-oldali bekötés / AC (kint. sr.) šoninis kontaktas / Maiņstrāvas puses savienojums / Pripojenie na strane striedavého prúdu / AC stranska povezava / AC Yan Bağlantı / Conexão do Lado CA



DC Side Connection / Gleichstrom-seitiger Anschluss / Connexion côté CC / Conexión lateral de CC / Ligaçao lateral CC / Aansluiting gelijkspanningszijde / Collegamento lato CC / Połączenie po stronie DC / Boční připojení stejnosměrného proudu / Anslutning på DC-sidan / Conexiune laterală c.c. / Свързване от DC страната / DC-sidetilslutning / Πλαϊνή σύνδεση DC / Alalisvoolupoolne ühendus / DC-puolen liitäntä / Priključak za istosmjernu struju (DC) / Egyenáram-oldali bekötés / DC (nuol. sr.) šoninis kontaktas / Līdzstrāvas puses savienojums / Pripojenie na strane jednosmerného prúdu / DC stranska povezava / DC Yan Bağlantı / Conexão do Lado CC



Communication Connection / Kommunikations-Anschluss / Branchement
de communication / Conexión de comunicación / Ligação à Comunicação
/ Communicatie-aansluiting / Collegamento comunicazione / Potäczenie
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 / İletişim Bağlantısı / Conexão de
comunicação



COM

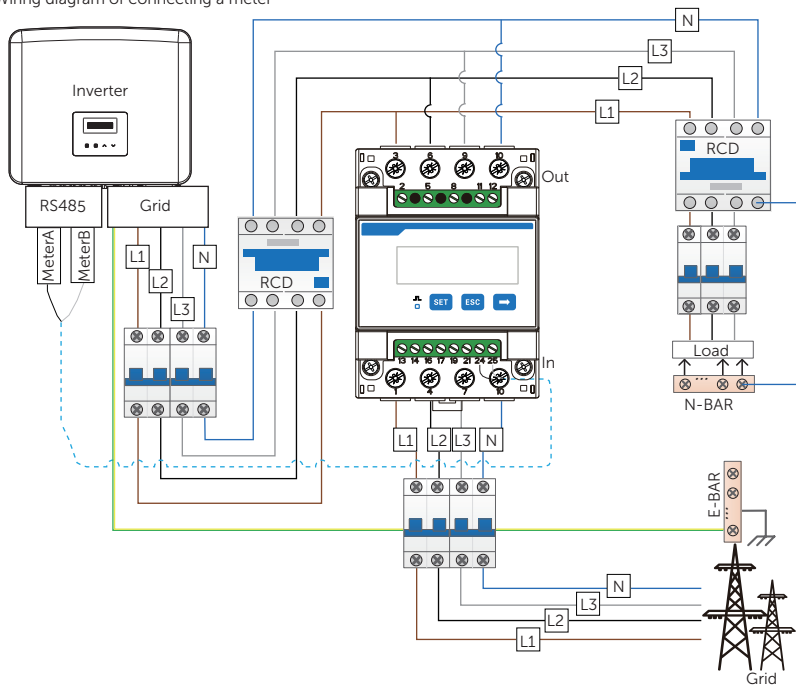
Pin	1	2	3	4	5	6	7	8
Pin Definition	+13V	GND_HP	Shutdown+	Shutdown-	REF GEN	DRM0	X	X

* For DRM, only DRM 0 is available now.

RS485

Pin	a	b	c	d	e	f
Pin Definition	485A	485B	485A	485B	Meter A	Meter B

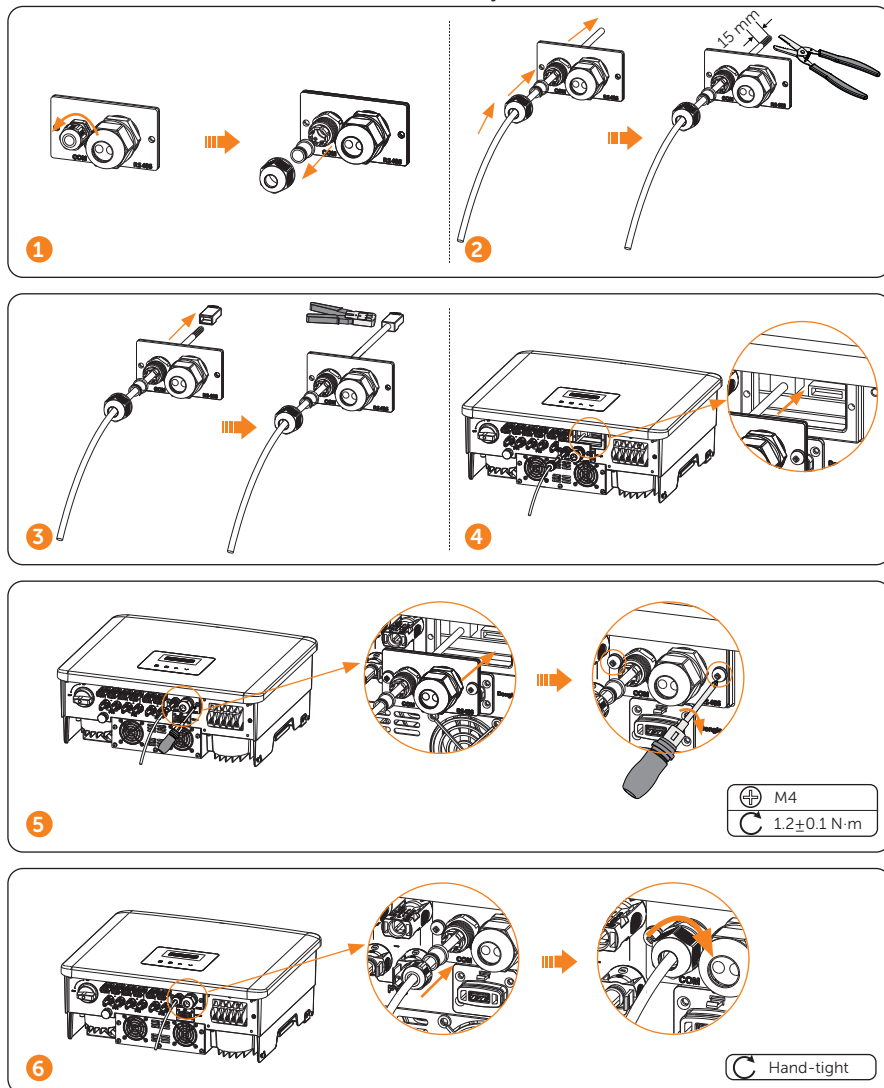
Wiring diagram of connecting a meter



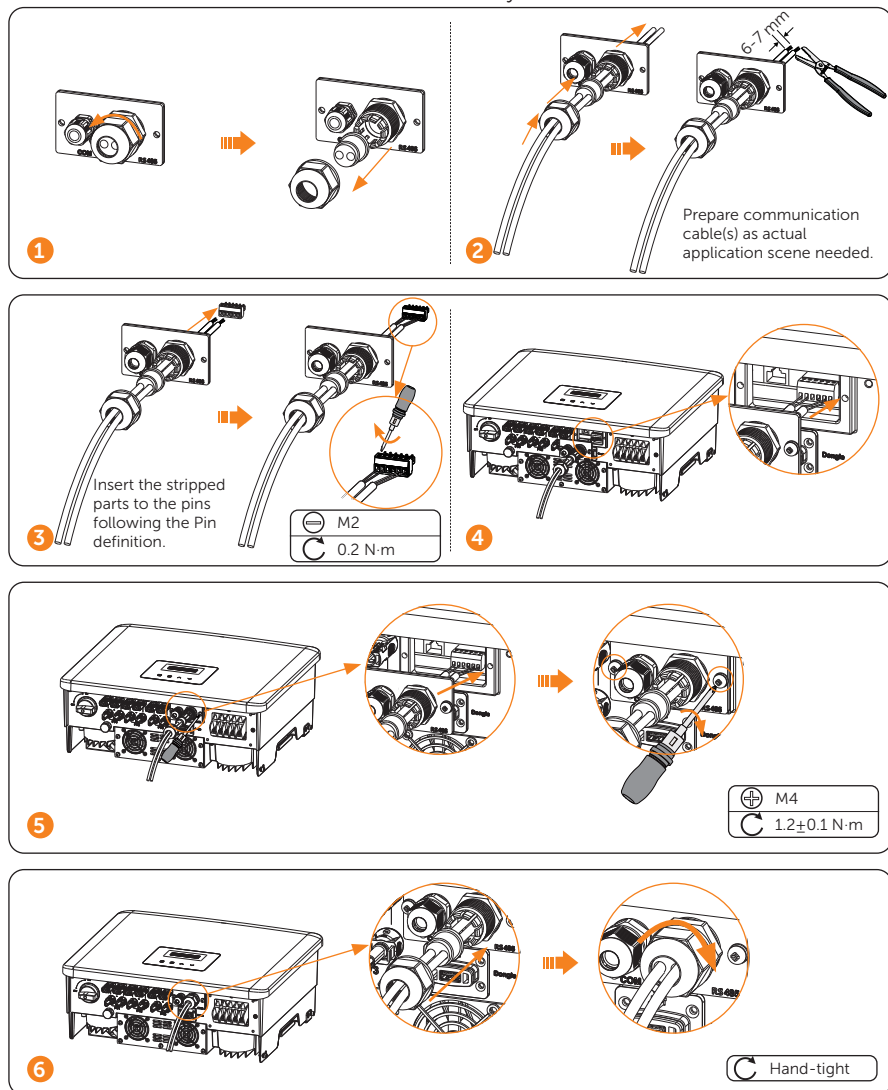
- Connection Method

Note: Connect the COM terminal and the RS485 terminal respectively or simultaneously according to the actual application scene.

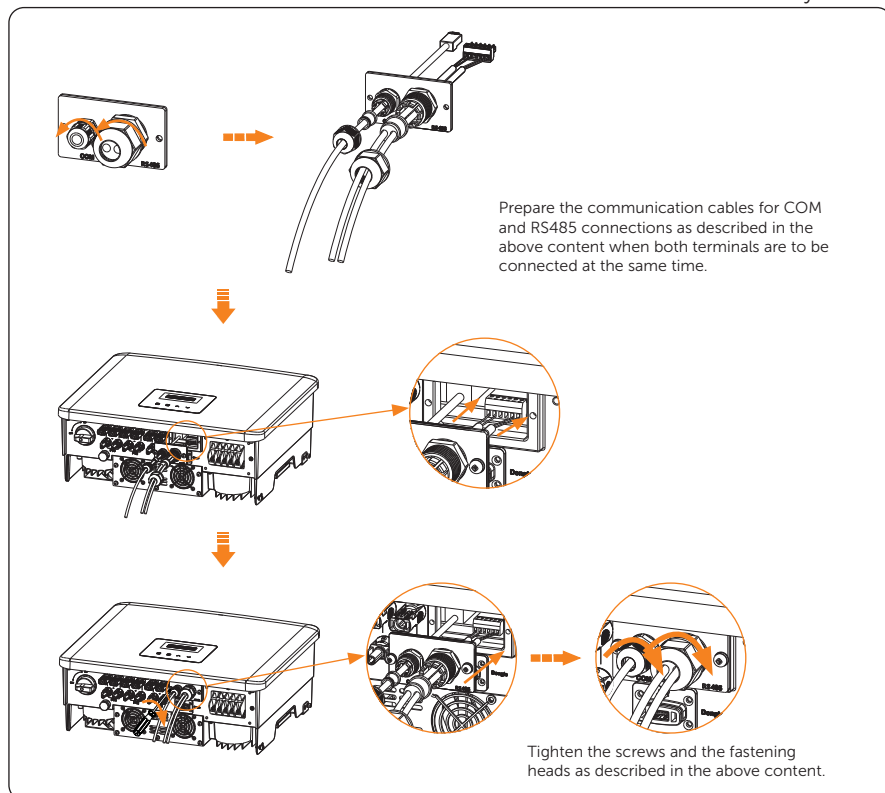
a. Possible scene 1: COM terminal connection only



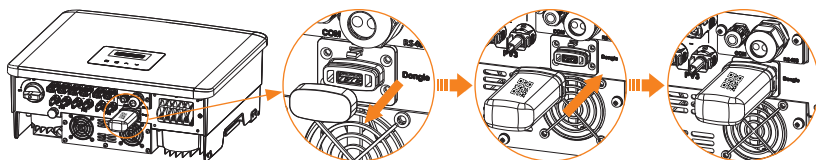
b. Possible scene 2: RS485 terminal connection only



c. Possible scene 3: COM terminal and RS485 terminal connections simultaneously

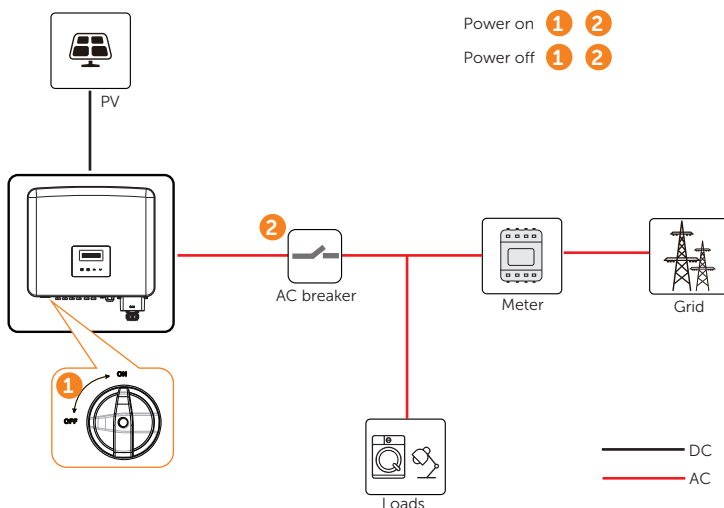


Monitoring Connection / Überwachungs-Anschluss / Branchement de surveillance / Conexión de monitorización / Ligação à Monitorização / Monitoring-aansluiting / Collegamento monitoraggio / Potężenie na potrzeby monitorowania / Pripojení ke sledování / Övervakningsanslutning / Conexiune de monitorizare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



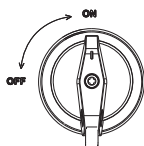
Keep "QR Code" upwards.

Power On/Off / Einschalten/Ausschalten / Marche/Arrêt / Encendido/apagado / Ligar/Desligar / In-/uitschakelen / Accensione/Spengimento / 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 / Vkllop/izklop / Güç Açık/Kapalı / Ligar/Desligar

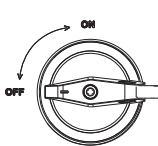


Lockable DC Switch / Abschließbarer DC-Schalter / Interrupteur CC verrouillable / Interruptor de CC con bloqueo / Interruptor CC Bloqueável / Vergrendelbare DC-schakelaar / Interruttore CC bloccabile / Blokowany przełącznik prądu stałego / Uzamykatelný DC vypínač / Låsbar DC-brytare / Comutator DC blocabil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

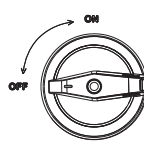
Three states



ON

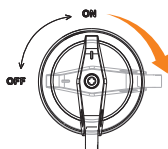


OFF

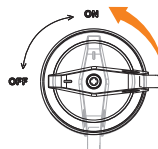


OFF+Lock

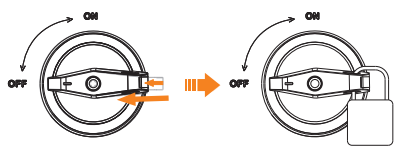
Turn on



Turn off

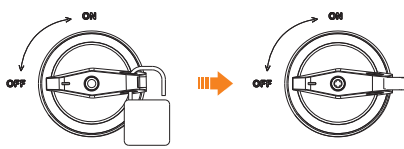


Lock

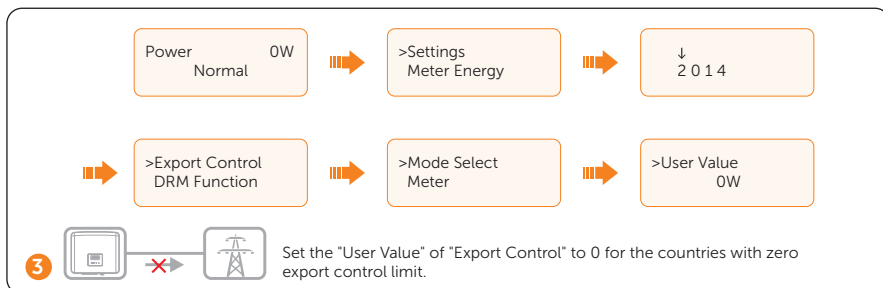
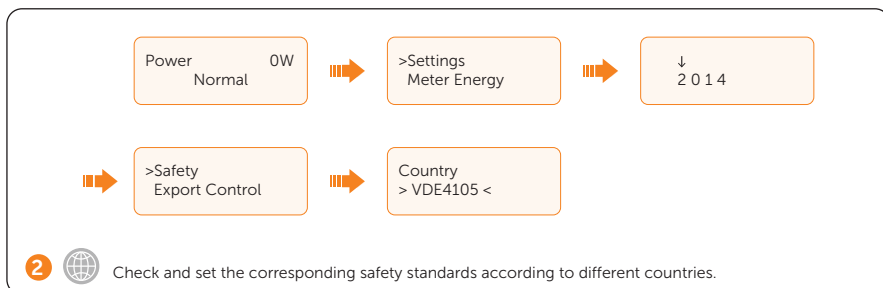
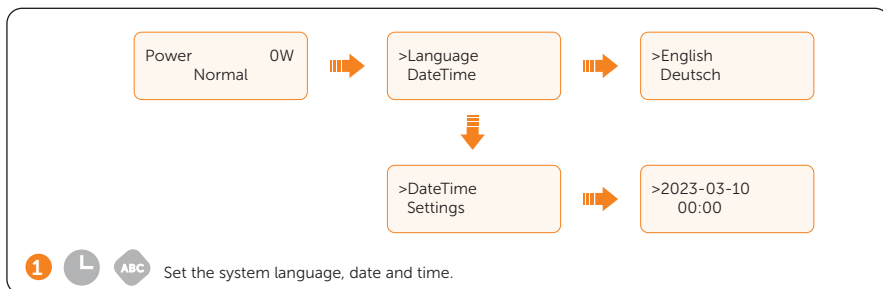


Lock (Prepared by yourself)

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 / Genel indstilling / Γενική τοποθέτηση / Üldine seadistus / Yleisasetus / Опće postavke / Általános beállítás / Bendrasis nustatymas / Vispārīgs iestatījums / Všeobecné nastavenie / Splošna nastavitve / Genel Ayar / Configuração Geral



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

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- DC input

Model	X3-PRO-8K-G2	X3-PRO-10K-G2	X3-PRO-12K-G2	X3-PRO-15K-G2	X3-PRO-17K-G2
Max. PV voltage [d.c. V]	1100	1100	1100	1100	1100
MPPT voltage range [d.c. V]	160-980	160-980	160-980	160-980	160-980
Max. PV current per MPPT [d.c. A]	32	32	32	32	32
Isc PV array short circuit current per MPPT [d.c. A]	40	40	40	40	40
No. of MPPT	2	2	2	2 ¹	2 ¹
Max. inverter backfeed current to the array [d.c. A]	0				

Model	X3-PRO-20K-G2	X3-PRO-25K-G2	X3-PRO-30K-G2
Max. PV voltage [d.c. V]	1100 (800 @127/220 Vac)	1100 (800 @127/220 Vac)	1100 (800 @127/220 Vac)
MPPT voltage range [d.c. V]	160-980 (160-650 @127/220 Vac)	160-980 (160-650 @127/220 Vac)	160-980 (160-650 @127/220 Vac)
Max. PV current per MPPT [d.c. A]	32	32	32
Isc PV array short circuit current per MPPT [d.c. A]	40	40	40
No. of MPPT	2 ¹	3	3
Max. inverter backfeed current to the array [d.c. A]	0		

¹ Optional with 3 inputs of MPPT.

Model	X3-PRO-10KW-G2	X3-PRO-25KW-G2	X3-PRO-10K-G2-LV	X3-PRO-12K-G2-LV	X3-PRO-15K-G2-LV
Max. PV voltage [d.c. V]	1100	1100	800	800	800
MPPT voltage range [d.c. V]	160-980	160-980	160-650	160-650	160-650
Max. PV current per MPPT [d.c. A]	32	32	32	32	32
Isc PV array short circuit current per MPPT [d.c. A]	40	40	40	40	40
No. of MPPT	2	3	2	2	2
Max. inverter backfeed current to the array [d.c. A]	0				

- AC output

Model	X3-PRO-8K-G2	X3-PRO-10K-G2	X3-PRO-12K-G2	X3-PRO-15K-G2	X3-PRO-17K-G2
Rated output apparent power [VA]	8000	10000 ¹	12000	15000 ²	17000
Max. output apparent power [VA]	8800	11000 ¹	13200	16500 ²	18700
Nominal AC voltage [a.c. V]	3~/(N)/PE, 220/380; 3~/(N)/PE, 230/400				
Nominal AC frequency & range [Hz]	50/60 (±5)				
Rated output current [a.c. A]*	12.2, 11.6	15.2, 14.5	18.2, 17.4	22.8, 21.8	25.8, 24.7
Max. output continuous current [a.c. A]	13.2	16.0	19.3	24.2	27.5
Current (inrush) [a.c. A]	60 (18 µs)				
Power factor range	0.8 leading-0.8 lagging				
Maximum output fault current [a.c. A]	100				
Maximum output overcurrent protection [a.c. A]	89				
Short circuit current [a.c. A]	300				

Model	X3-PRO-20K-G2	X3-PRO-25K-G2	X3-PRO-30K-G2
Rated output apparent power [VA]	20000 (10000 @127/220 V)	25000 (12000 @127/220 V)	30000 ³ (15000 @127/220 V)
Max. output apparent power [VA]	22000 (11000 @127/220 V)	27500 (13200 @127/220 V)	30000 ⁴ (16500 @127/220 V)
Nominal AC voltage [a.c. V]	3~/(N)/PE, 220/380; 3~/(N)/PE, 230/400; 3~/(N)/PE, 127/220		
Nominal AC frequency & range [Hz]	50/60 (±5)		
Rated output current [a.c. A]*	30.3, 29.0 (26.3 @127/220 V)	37.9, 36.3 (31.5 @127/220 V)	45.5, 43.5 (39.4 @127/220 V)
Max. output continuous current [a.c. A]	33.6 (28.9 @127/220 V)	41.8 (34.7 @127/220 V)	45.5 ⁵ (43.4 @127/220 V)
Current (inrush) [a.c. A]	60 (18 µs)		
Power factor range	0.8 leading-0.8 lagging		
Maximum output fault current [a.c. A]	100		
Maximum output overcurrent protection [a.c. A]	89		
Short circuit current [a.c. A]	300		

¹ 9999 for AS/NZS 4777.2

² 14999 for AS/NZS 4777.2

³ 29999 for AS/NZS 4777.2

⁴ 29999 for AS/NZS 4777.2, 33000 for PEA

⁵ 47.8 for PEA

Model	X3-PRO-10KW-G2	X3-PRO-25KW-G2	X3-PRO-10K-G2-LV	X3-PRO-12K-G2-LV	X3-PRO-15K-G2-LV
Rated output apparent power [VA]	10000	24999	10000	12000	15000
Max. output apparent power [VA]	10000	24999	11000	13200	16500
Nominal AC voltage [a.c. V]	3~/(N)/PE, 220/380; 3~/(N)/PE, 230/400		3~/(N)/PE, 127/220		
Nominal AC frequency & range [Hz]	50/60 (±5)				
Rated output current [a.c. A]*	15.2, 14.5	37.9, 36.3	26.3	31.5	39.4
Max. output continuous current [a.c. A]	16.0	37.9	28.9	34.7	43.4
Current (inrush) [a.c. A]	60 (18 μs)				
Power factor range	0.8 leading-0.8 lagging				
Maximum output fault current [a.c. A]	100				
Maximum output overcurrent protection [a.c. A]	89				
Short circuit current [a.c. A]	300				

* "Rated output current": For models named without "-LV", the first data corresponds to 220/380 V, the second data corresponds to 230/400 V and a third data corresponds to 127/220 V for some specific models as indicated in the table; for models named with "-LV" the data corresponds to 127/220 V.

• Others

Model	X3-PRO-8K-G2	X3-PRO-10K-G2	X3-PRO-12K-G2	X3-PRO-15K-G2	X3-PRO-17K-G2
Operating ambient temperature range [°C]	-30 to +60				
Storage temperature [°C]	-30 to +60				
Storage/Operation relative humidity	0%~100%				
Max. operating altitude [m]	4000				
Ingress protection	IP66				
Protective class	I				
Overvoltage category	III(MAINS), II(DC)				
Pollution degree	II(Inside), III(Outside)				
Inverter topology	Non-isolated				
Active anti-islanding method	Frequency Shift				
Safety	IEC/EN 62109-1/-2				
Grid monitoring	EN50549, VDE-AR-N 4105, CEI 0-16, CEI 0-21, G98, G99, AS/NZS 4777.2				

Model	X3-PRO-20K-G2	X3-PRO-25K-G2	X3-PRO-30K-G2
Operating ambient temperature range [°C]	-30 to +60		
Storage temperature [°C]	-30 to +60		
Storage/Operation relative humidity	0%~100%		
Max. operating altitude [m]	4000		
Ingress protection	IP66		
Protective class	I		
Overvoltage category	III(MAINS), II(DC)		
Pollution degree	II(Inside), III(Outside)		
Inverter topology	Non-isolated		
Active anti-islanding method	Frequency Shift		
Safety	IEC/EN 62109-1/-2		
Grid monitoring	EN50549, VDE-AR-N 4105, CEI 0-16, CEI 0-21, G98, G99, AS/NZS 4777.2		

Model	X3-PRO- 10KW-G2	X3-PRO- 25KW-G2	X3-PRO- 10K-G2-LV	X3-PRO- 12K-G2-LV	X3-PRO- 15K-G2-LV
Operating ambient temperature range [°C]	-30 to +60				
Storage temperature [°C]	-30 to +60				
Storage/Operation relative humidity	0%~100%				
Max. operating altitude [m]	4000				
Ingress protection	IP66				
Protective class	I				
Overvoltage category	III(MAINS), II(DC)				
Pollution degree	II(Inside), III(Outside)				
Inverter topology	Non-isolated				
Active anti-islanding method	Frequency Shift				
Safety	IEC/EN 62109-1/-2 *				
Grid monitoring	EN50549, VDE-AR-N 4105, CEI 0-16, CEI 0-21, G98, G99, AS/NZS 4777.2 *				

* Please refer to the actual certifications of the specific model.

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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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