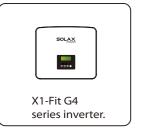


Quick Installation Guide

X1-Fit 3.7KW-7.5KW

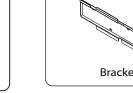
Packing List



DRM/BMS/COM) RJ45 terminals*1

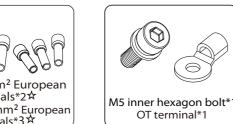
Meter *1(Optional)

CT 2 Kit*1(Optional)



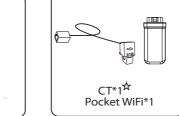








Waterproof cover*1[☆]



Battery connection terminals *1

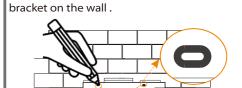
(Expansion bolt, Gasket,

Self-tapping bolt)*3

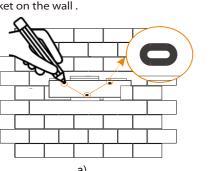
Tool Preparation



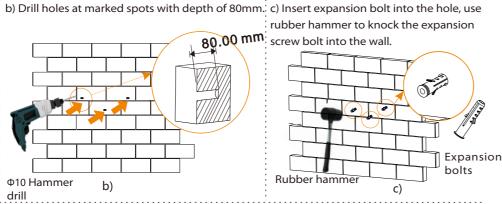
Mounting Steps



a) Use a marker to mark drilling holes of the

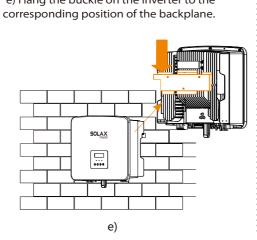


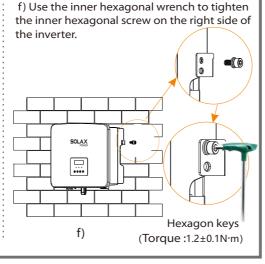
Φ10 Hammer b)

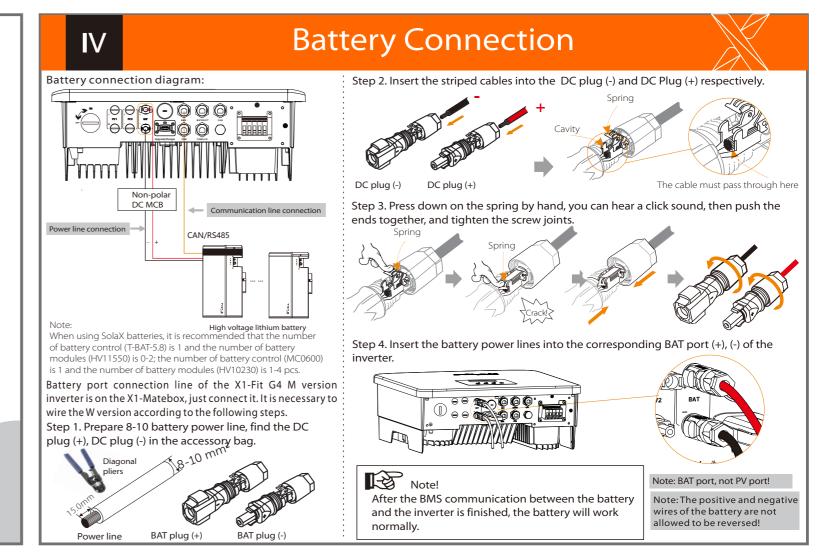


d) The bracket is aligned with the screw uses $\frac{1}{2}$ e) Hang the buckle on the inverter to the the inner hexagonal wrench to screw the tapping screw until the expansion bolt "bang" is heard. Out hexagon wrench

Torque:9.0±0.2N·m







Grid and EPS Connection

Diagram A: Neutral line and PE line are separated from each other, and the common load is connected to the EPS port; (For most countries)

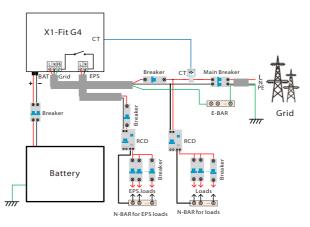


Diagram B: Neutral line and PE line are separated from each other, all loads connect to the EPS port; (For most countries)

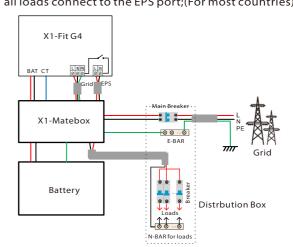


Diagram C: Neutral line and PE line are combined together, and the common load is connected to the EPS port;

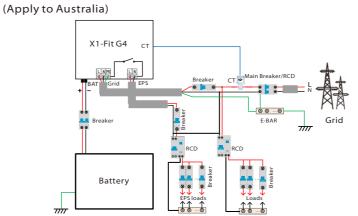
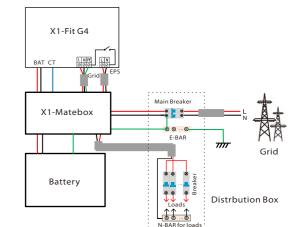


Diagram D: Neutral line and PE line are combined together, all loads connect to the EPS port; (Apply to Australia)



The Grid and EPS ports of X1-Fit G4 M version inverter have been connected, and the W version needs to be wired according to the following steps.

wire) and an FPS cable (two-core wire), and then find the European terminal and waterproof cov accessory bag.











terminal, and finally use crimping pliers to press tightly.

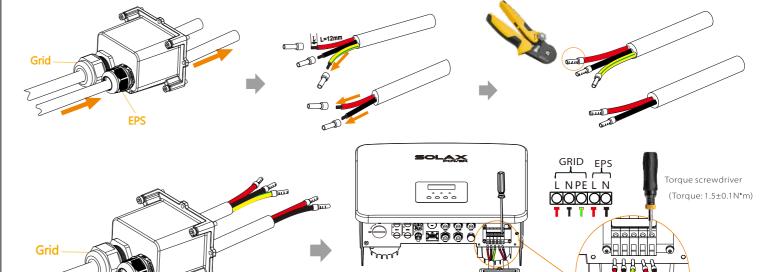
5-6 mm² Euro Terminal*2 Grid Cable and Micro

.10-1											
V	Model	X1-Fit-3.7-M	X1-Fit-5.0-M	X1-Fit-6.0-M	X1-Fit-7.5-M						
	Cable (copper)	3-4mm²	4-6mm²	4-6mm²	6-8mm²						
	Micro-Breaker	25A	32A	32A	40A						

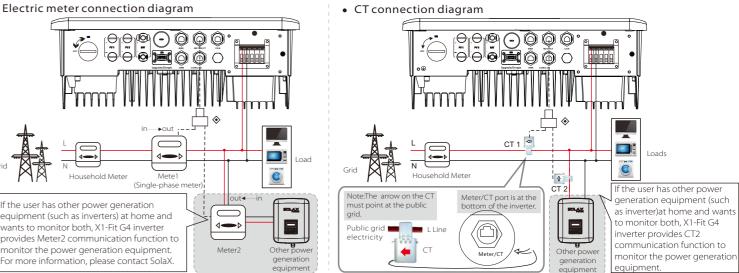
	cabic (copper)	0-011111	0 10111111	0 10111111	0 10111111		5	1 0111111	1 0111111	1	
l	Micro-Breaker	40A	50A	50A	50A	Micro-Breaker	25A	32A	32A	П	
l				FPS Cable	and Micro-break	er recommende	4				
EPS Cable and Micro-breaker recommended											
l		Mode	, X1-	-Fit-3.7-W	X1-Fit-5.0-W	X1-Fit-6.0-W	X1-F	it-7.5-W			

Cable (copper) 4-6mm² 4-6mm² 32A Micro-Breaker 25A 40A Step 2: The Grid and EPS cables go through the corresponding Grid and EPS ports of the waterproof cover. Remove the 12mm insulation layer at

the end of the wire. Insert the European-style terminals respectively, and make sure that the stripped ends are inserted into the European-style





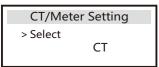


Communication Connection (BMS/Meter/CT/DRM/COM)

Note: CT2 Kit, It is a convenient adapter accessory for X1-Fit G4 to monitor the 🐪 > The DRM pin is defined as follows: grid-connected inverter. If you need it, please purchase it from the options.

• LCD settings

To select CT, you need to enter Use setting, then enter CT or Meter

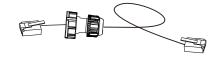


Meter /CT PIN is defined as follows:

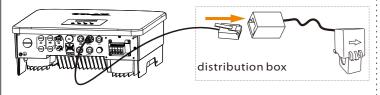
-1	1	2	3	4	5	6	7	8
-8	CT1-1	Х	CT2-1	485A	485B	CT2-2	Х	CT1-2

The electric meter and CT cannot be connected to one inverter at the same time. The meter cable is connected to pin terminals 4 and 5; the CT cable is connected to pin terminals 1 and 8; the reserved CT cable is connected to pin terminals 3 and 6.

1) To connect the Communication line of the CT line, the lines need to be made on both sides, connecting the RJ45 terminal on one side and the Communication line Adapter on the other.

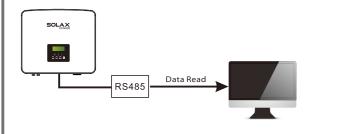


2) One side of the finished cable. Communication line adapter is inserted into the inverter, and one side of the RJ45 terminal is inserted into the

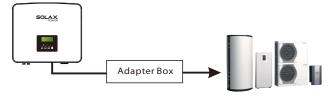


COM Communication

External communication equipment controls the inverter:



Inverter communication control external equipment:



The COM pin is defined as follows:



Customers can communicate or control the inverter and external devices through the COM interface. Professional users can use pins 4 and 5 to realize data acquisition and external control functions. unication protocol is Modbus RTU. For details, please contact SolaX. If the user wants to use the inverter dry contact to control external equipment (such as a heat pump), it can be used with SolaX's Adapter Box. For details, please refer to the Quick Installation Manual of the Adapter Box

The BMS pin is defined as follows:

←1								8
	BAT_TEMP	GND	GND	BMS_CANH	BMS_CANL	Χ	BMS_485A	BMS_485B

The BMS port on the inverter is the communication port for connecting the battery. The communication port on the lithium battery must be consistent with the definition of pins 4, 5, 7, and 8 above;



For AS4777 DRM function, currently only PIN6 (DRM0) and PIN1 (DRM1/5) are functional, other PIN functions are under

• Communication Connection Steps

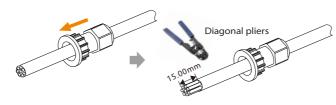
Step 1. Prepare a communication cable, and then find the communication adapter in the accessory bag



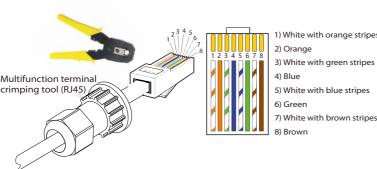




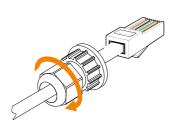
Step 2 Insert the communication cable through the communication adapter, and peel off the outer insulation layer of 15mm.



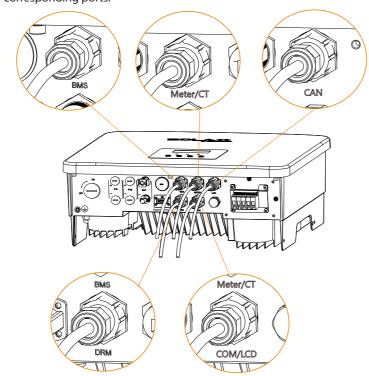
Step 3. Insert the prepared communication cables into the RJ45 terminals in sequence, and then use network cable crimping pliers to press them tightly.



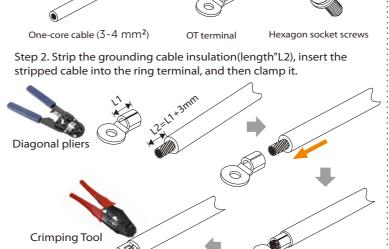
Step 4. Tighten the completed BMS / Meter / CT / DRM / COM / LCD communication line and tighten the waterproof plug.

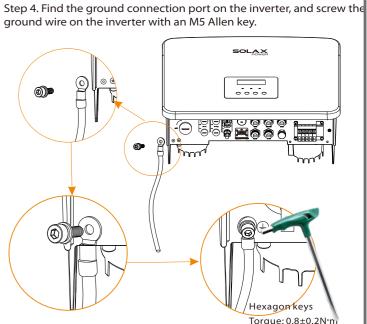


Step 5: Finally, find the corresponding BMS / Meter / CT / DRM /CAN/ COM / LCD poets on the inverter and insert the communication cable into the corresponding ports.



Step 1. Prepare a one-core cable (3-4 mm²), and then find the ground terminal in the accessories. One-core cable (3-4 mm²)





Monitoring Operation

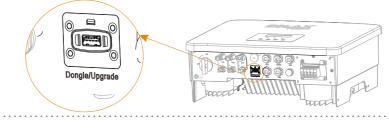
Grounding Connection(manodatory)

The ground wire port of X1-Fit G4 M version inverter has been connected, and the W version needs to be wired according to the following steps.

> Dongle connection diagram

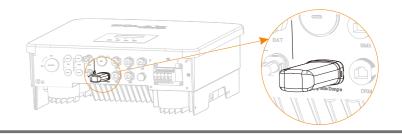


Wireless monitoring accessories connection steps: Step 1. First find the DONGLE port of the inverter.









he self-use mode is suitable for areas with low feed-in subsidies and high electricity prices

or zero feed-in is needed) (PV > Load, PV \rightarrow Load \rightarrow Battery \rightarrow Grid)

ower will be taken from the grid. (PV < Load ,PV + Battery + Grid → Load)

When the power of PV is sufficient Active Charging or Discharge time period:PV will power the loads firstly, and surplus power will charge to the battery

If the battery is fully charged, then sell the surplus power to the grid; (The inverter will limit the output if Feed-in limit

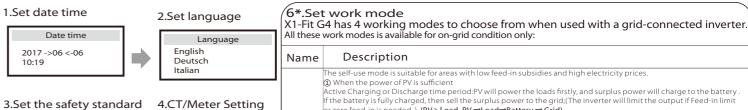
Active Charging time period: PV will power the loads firstly , the remaining power will be taken from the grid , the battery will not discharge at this time. (PV > Load , PV + Grid → Load)
Active Discharge time period: PV+BAT will power the loads together. If the power is still not enough, the remaining

Active Charging time period: The grid supplies the loads and also can charge the battery. (PV=0, Grid →Load + Battery) Active Discharge time period: The battery will power the home loads firstly. If the battery power is not enough, the remaining power will be taken from the grid. The inverter will enter into the standby state. (PV=0, Battery+Grid→Load) Battery min SOC can be set:10%-100%; Charge battery to min SOC can be set:10%-100%.

the grid, and continues to charge the battery with the remaining power, (PV>Load, PV→Load→Battery→Grid→Battery)

Start Guide

Description



CT/Meter Setting Safety Country >VDE0126 >Meter

6*.Set work mode 5*.Set export control **Export Control** Use Value:

This function allows the inverter able to control

There are user value and factory value. The factory value is default which can not be charged by user. The

user value set by installer must be less than the factory

10000W self use

Work Mode >Mode Select

Feed-in 2 When the power of PV is insufficient

(1) When the power of PV is sufficient

ctive Charging time period :PV will power the loads firstly, the remaining power will be taken from the grid. The attery will not discharge. (PV > Load, PV + Grid \rightarrow Load) Discharge time period: PV+BAT will power the loads together. If the power is still not enough, the remaining power wi e taken from the grid. (PV \leq Load, PV + Battery + Grid \rightarrow Load)

e Discharge time period:PV will power the loads firstly ,and surplus power will feed-in to the grid

period: The grid will power the home loads and also charge the battery $(PV=0, Grid \rightarrow Load + Battery)$

he Feed-in priority mode is suitable for areas with high feed-in subsidies, but has feed-in power l'

maining power will be taken from the grid . The inverter will enter into the standby state. (PV=0, Battery+Grid \rightarrow Load SOC can be set:10%-100%; Charge battery to min SOC can be set:10%-100%

mode will maintain the battery capacity at a relatively high level. (Users' setting) to ensure that the emergency load: ran be used when the grid is off. Customers no need to worry about the battery capacity. Battery min SOC can be set:30%-100%; Charge battery to min SOC can be set:30%-100%. The EPS mode is used when the power grid is off .System will provides e patteries to supply power to the household loads. (Battery is necessary)

1) When the power of PV is sufficent PV will power the loads firstly, and surplus power will charge to the battery.(PV > Load ,PV → Load → Battery)
② When the power of PV is insufficient he remaining power will be taken from the battery.(PV < Load, PV → Load)

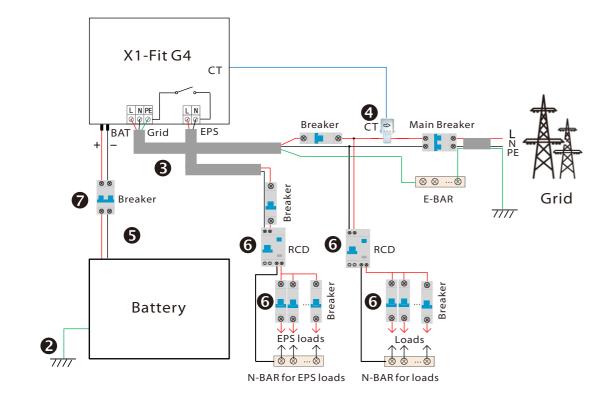
dle mode.(PV=0, $Battery \rightarrow Load$)

Start Inverter

Start inverter

After the inverter is checked, the inverter will take the following steps:

Applies to most countires



- Make sure that the inverter is fixed on the wall.
- Ensure that all ground wires are grounded. **3** Confirm that all AC lines are connected.
- Make sure the CT is connected.
- Make sure the battery is well connected.
- **6** Turn on the Load switch and EPS switch
- 7 Turn on thebattery switch.

Long press Enter for 5 seconds to exit the shutdown mode. Mode is the mode when it is turned off for the first time; factory default: off mode)

7.Matebox Setting

Matebox Setting

5*.Export Control

energy exported to the grid

>disable

enable

Firmware Upgrading

-In order to upgrade the firmware smoothly, if the DSP and ARM firmware needs to be upgraded, please note that ARM firmware must be upgraded first, then DSP firmware!

-Make sure that this directory is completely consistent with the above table, do not modify the firmware file name, Otherwise, the inverter may not work -For X1-Fit G4, ensure that the PV input voltage is greater than 100V (upgrade on sunny days), please ensure that the battery SOC is greater than 20% or the battery input voltage is greater than 90V. Otherwise, it may cause serious failure during the upgrade process!

-If the ARM firmware upgrade fails or stops, please do not unplug the U disk and power off the inverter and restart it. Then repeat the upgrade steps.

1) Please check the inverter version and prepare a U disk (USB 2.0/3.0) and personal computer before upgrading.

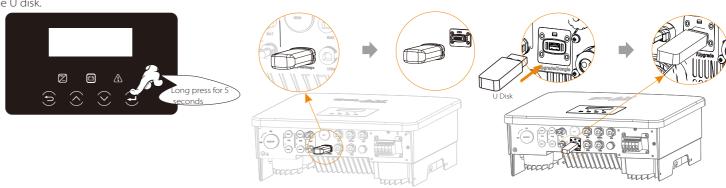
2) Please contact our service support through service@solaxpower.com to obtain the firmware, and store the firmware in the U disk according to the following path.

For ARM file:"update \ARM\618.00361.00_Fit_X1G4_ARM_V1.01_0710.usb"; For DSP file: "update\DSP\618.00360.00_Fit_X1G4_DSP_V1.01_0710.usb";

Update:

Step 1. Please save the "Upgrade" firmware in your U disk first, and press the "Enter" button on the inverter screen for 5 seconds to enter the OFF

Step 2. Locate the "update" port of the inverter, use a flat-blade screwdriver or coin with the same width to remove the waterproof cover, and insert



Step 3. LCD operation, enter the upgrade interface "update", as shown below(a): Please press the up and down keys to select ARM, then press the bottom of the page to select "OK", press the enter key to enter the software version interface;



Step 4. Please confirm the new firmware version again and select the firmware to upgrade. The upgrade takes about 20 seconds.(d) When it is completed, the LCD screen returns to the "Update" page.

===:Update Selection ====	=== Update DSP File ===	====Update(DSP) ====	===Update(DSP) ===	==== Update(DSP) ====	=== Update(DSP) ===
ARM >DSP	>618.00360.00_Fit_ X1G4_DSP_V1.01_07 10.hex	connect	DSP Erasing	Upgrading25%	Upgrade Successful
(f)	(g)	(h)	(i)	(j)	(k)

614.00522.01