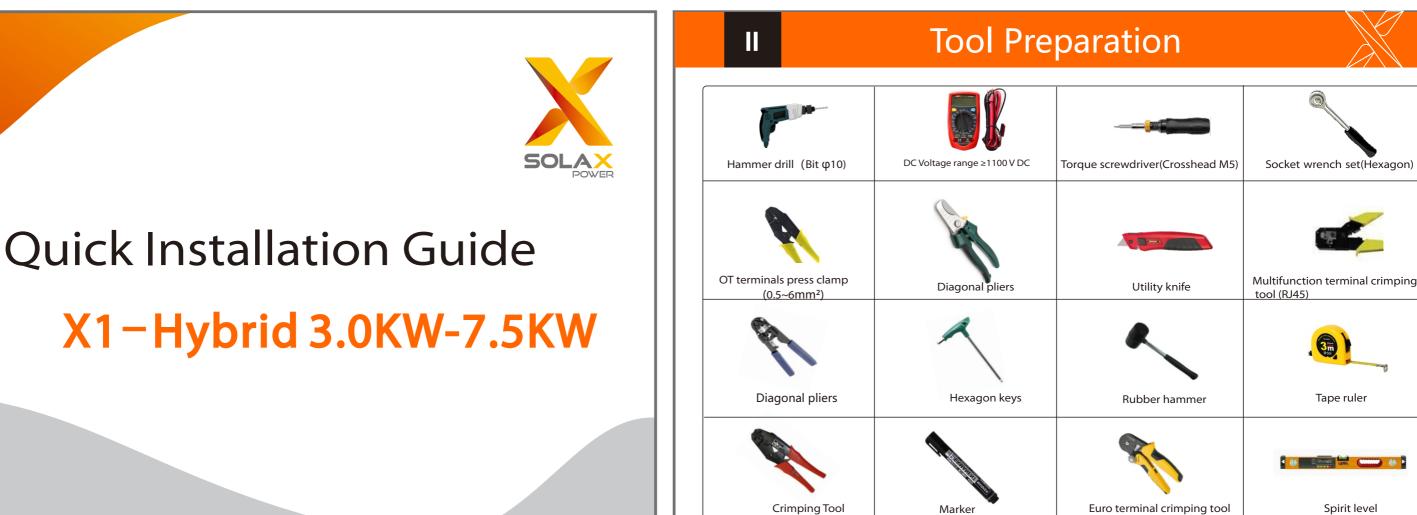
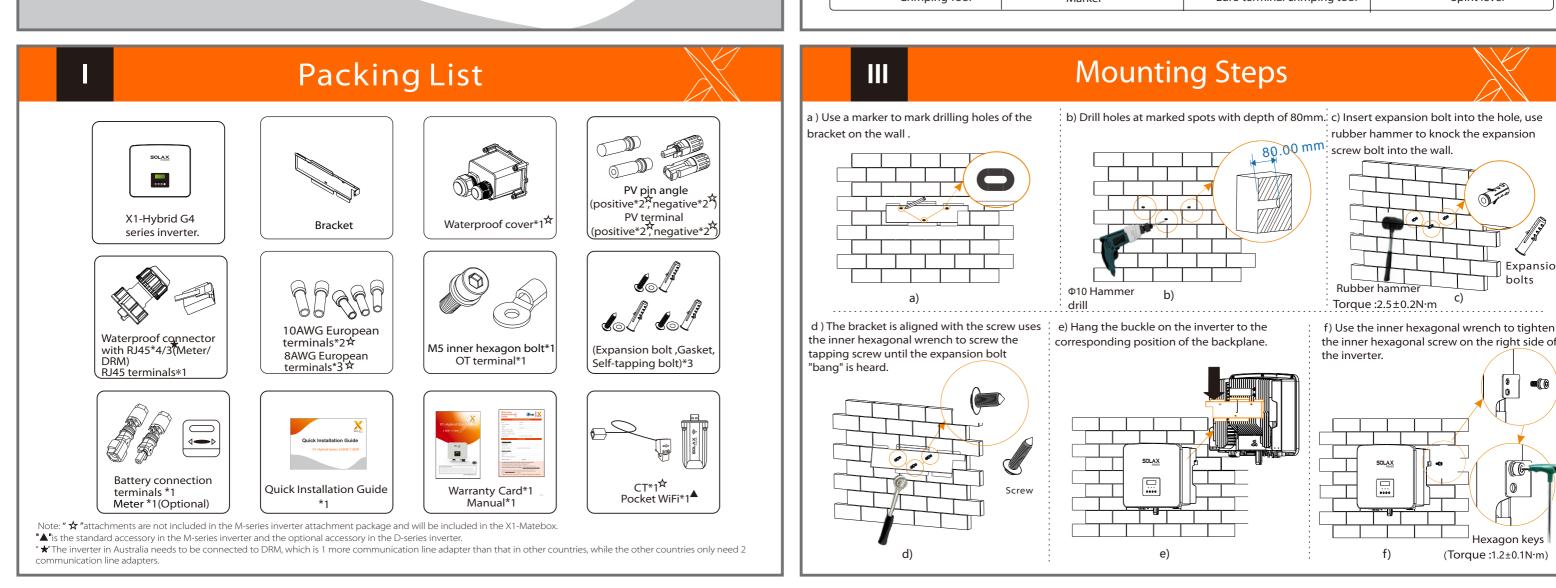


				设计	郑羽	自同	2021/01	/07	
Hybrid G4 快速安装指南 英文版 SOLAX				审核	葛尔	へ远	2021/01	/07	
双胶纸				核准	葛尔	入远	2021/01	/07	
						·方阳八司			
n	页次			- 浙江艾罗网络能源技术有限公司					





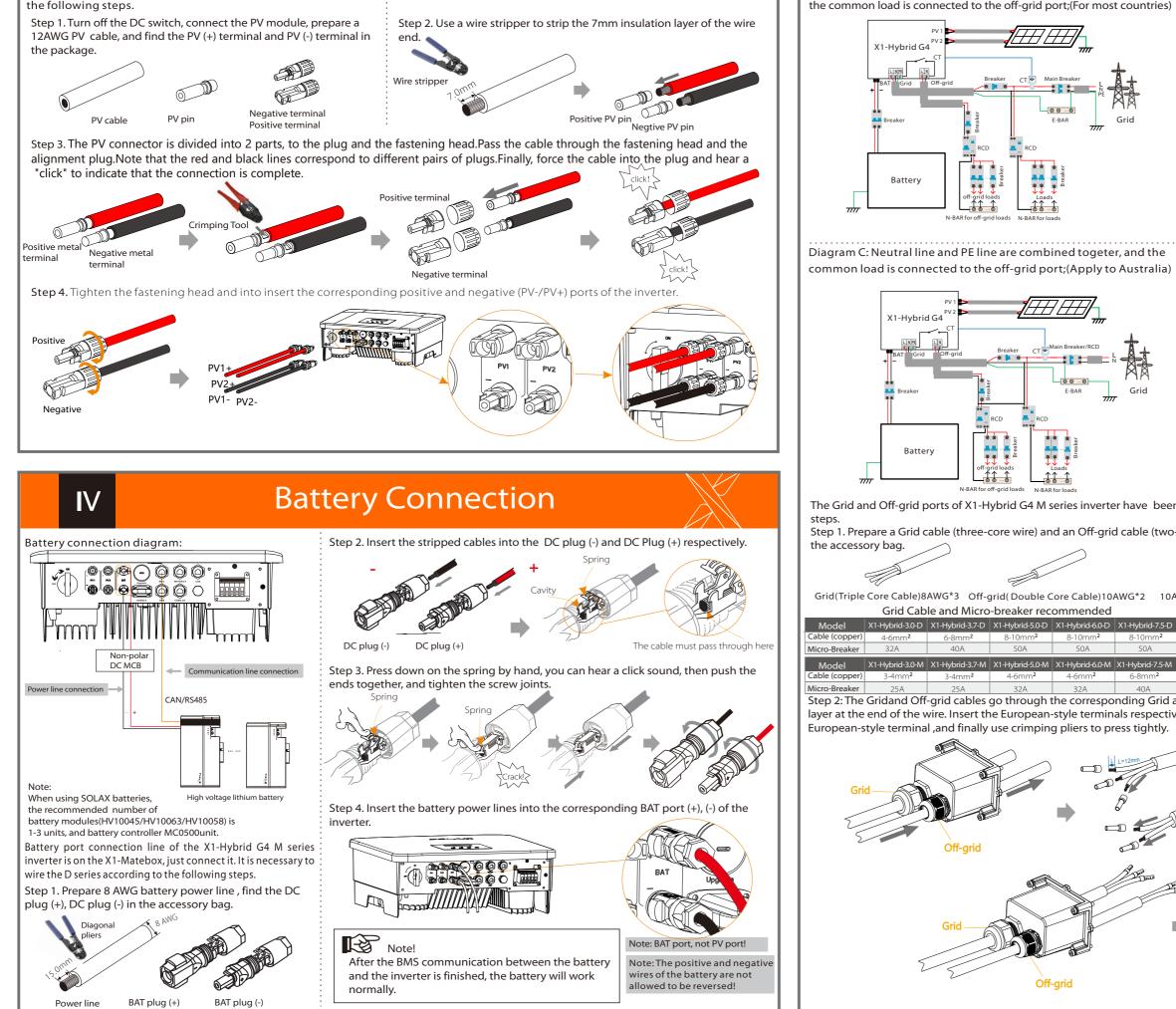
PV Connection

The PV port wiring of X1-Hybrid G4 M series inverter has been completed. On X1-Matebox, the D series needs to be wired according to the following steps.

Grid and Off-grid Connection

Grid

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



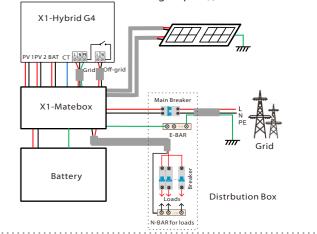


Diagram D: Neutral line and PE line are combined together, all loads connect to the Off-grid port; (Apply to Australia)

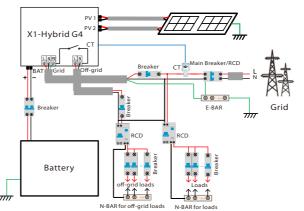
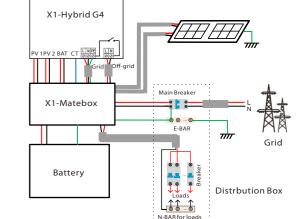


Diagram A: Neutral line and PE line are separated from each other, and



The Grid and Off-grid ports of X1-Hybrid G4 M series inverter have been connected, and the D series needs to be wired according to the following

Step 1. Prepare a Grid cable (three-core wire) and an Off-grid cable (two-core wire), and then find the European terminal and waterproof cover in

	A		>		
P					

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7			
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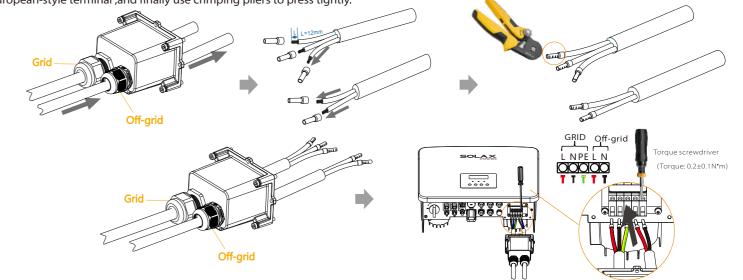
Expansion bolts

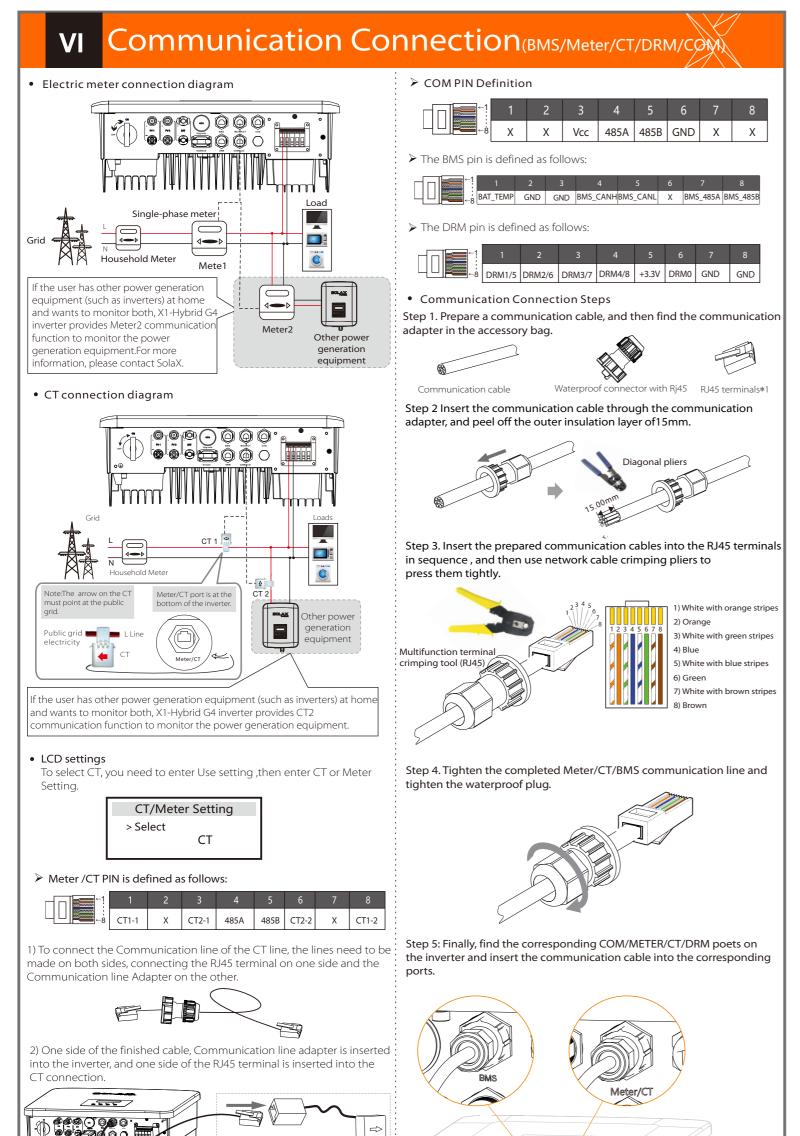
Grid(Triple Core Cable)8AWG*3 Off-grid(Double Core Cable)10AWG*2 10AWG Euro Terminal*2 Grid Cable and Micro-breaker recommended

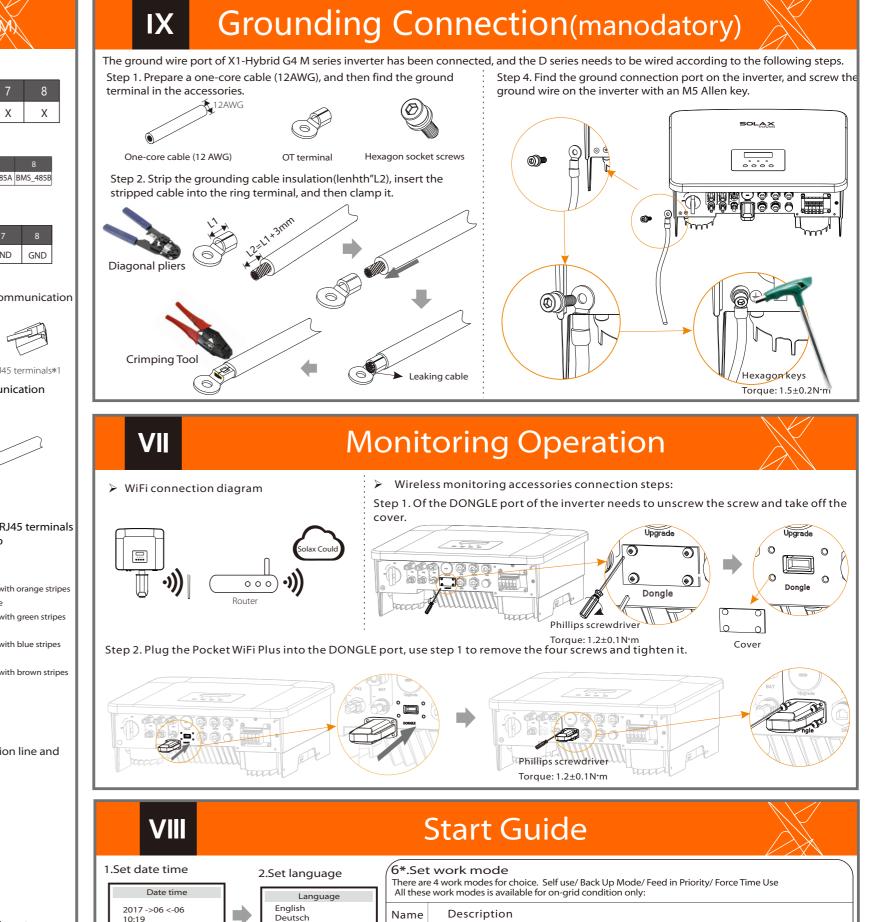
Eurp Terminal 8AWG *3 Waterproof cover Off-grid Cable and Micro-breaker reco nded

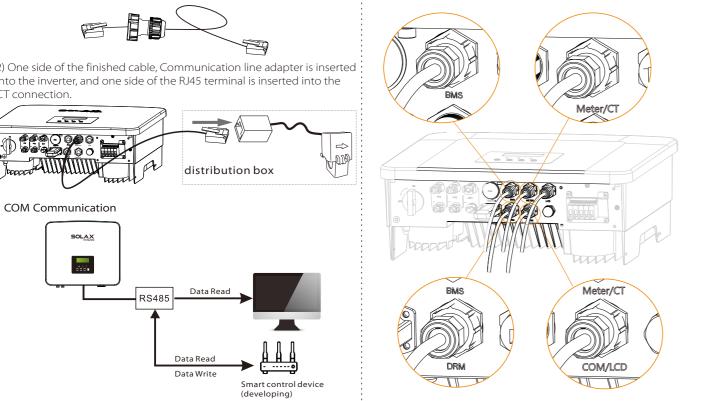
	Grid Cab	ne and Micro	-breaker rec	ommended			Oll-gliu		IICIO-DIEake	litecommen	lueu
Model	X1-Hybrid-3.0-D	X1-Hybrid-3.7-D	X1-Hybrid-5.0-D	X1-Hybrid-6.0-D	X1-Hybrid-7.5-D		X1-Hybrid-3.0-D	X1-Hybrid-3.7-D	X1-Hybrid-5.0-D	X1-Hybrid-6.0-D	X1-Hybrid-7.5-D
Cable (copper)	4-6mm²	6-8mm²	8-10mm ²	8-10mm ²	8-10mm ²	Model	X1-Hybrid-3.0-M	X1-Hybrid-3.7-M	X1-Hybrid-50-M	X1-Hybrid-6.0-M	X1-Hybrid-75-N
Micro-Breaker	32A	40A	50A	50A	50A	ХТТурно	XT Hybrid 5.0 M		XI Hybrid 5.0 M	XI Hybrid 0.0 M	XT Hybrid 7.5 h
Madal	X1-Hybrid-3.0-M X1-Hybrid-3.7-M		V1 Hybrid 5.0 M		V1 Usbrid 75 M	Cable (copper)	3-4mm²	3-4mm²	4-6mm²	4-6mm²	6-8mm²
Model											
Cable (copper)	3-4mm ²	3-4mm ²	4-6mm ²	4-6mm ²	6-8mm ²	Micro-Breaker	25A	25A	32A	32A	40A
Micro-Breaker	25A	25A	32A	32A	40A						

Step 2: The Gridand Off-grid cables go through the corresponding Grid and Off-grid 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 terminal ,and finally use crimping pliers to press tightly.









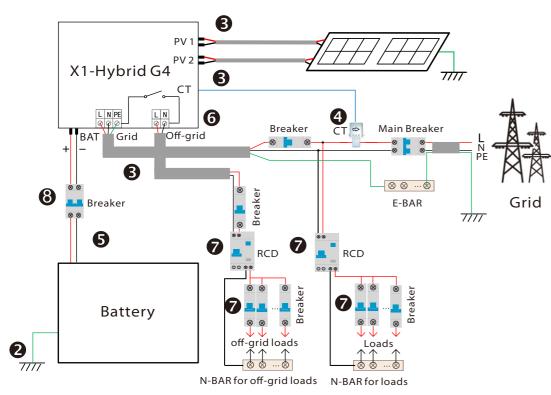
IX

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.
- e Ensure that all ground wires are grounded.
- Onfirm that all DC lines and AC lines are connected.
- Make sure the CT is connected.
- Make sure the battery is well connected.
- Ensure that the external Off-grid contactor is well connected. (If needed)
- Turn on the Load switch and Off-grid switch
- 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)

>disable enable		(⊴) Without PV power Active Charging time period :The grid will power the home loads and also 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 → L Battery min SOC can be set: 10%-100%
5 *.Export Control	Backup mode	The back-up mode is suitable for areas with frequent power outages.Same working logic with "Self-use" mode.This mode will maintain the battery capacity at a relatively high level.(Users' setting) to ensure that the emergency loa can be used when the grid is off. Customers no need to worry about the battery capacity. Battery min SOC can be set:30%-100%.Backup mode SOC adjustment range:30%-100%;In Backup mode, SOC-min under off-grid condition is 10%, which cannot be modified.
This function allows the inverter able to control energy exported to the grid. 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 value.		The off-grid mode is used when the power grid is off .System will provides emergency power through PV and batter to supply power to the household loads. (Battery is necessray) (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 The remaining power will be taken from the battery.(PV <load, load)<br="" pv="" →="">(3) Without PV power</load,>

n the power of PV is sufficient

(2) When the power of PV is insufficient

(1) When the power of PV is sufficient

 $V \leq Load, PV \rightarrow Load \rightarrow Grid$)

2 When the power of PV is insufficient

Discharge time period: PV+BAT will pe

Active Charging time period :PV will power the loads first battery will not discharge.(PV>Load,PV + Grid → Load)

e taken from the grid. (PV<Load , PV + Battery + Grid \rightarrow Load)

(3) Without PV power

ver the emergency loads until the battery reached the lle mode.(PV=0, Battery → Load)

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

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

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

ctive Charging time period :PV will power the loads firstly, and surplus po

ctive 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 limi

citive Charging time period: PV will power the loads firstly ,the remaining power will be taken from the grid , the attery 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

maining power will be taken from the grid. The inverter will enter into the standby state.(PV=0, Battery+Grid→Lo

ver will feed-in to the

er the loads firstly, the remaining power will be taken from the grid. The

er the loads together. If the power is still not enough, the remaining power v

attery min SOC can be set:10%-100%. he Feed-in priority mode is suitable for areas with high feed-in subsidies, but has feed-in power limitation

power has been limited , the surplus power can charge the battery. (PV>Load , PV \rightarrow Load \rightarrow Grid \rightarrow Battery)

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

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-Hybrid G4, ensure that the PV input voltage is greater than100V (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.

> Upgrade preparation

X

1) Please check the inverter version and prepare a U disk (USB 2.0) 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.

Update:

For ARM file: "update \ARM\618.00361.00 Hybrid X1G4 ARM V1.01.0710.usb" ; For DSP file: "update\DSP\618.00360.00_Hybrid_X1G4_DSP_V1.01.0710.usb";

Italian

СТ

>Meter

6*.Set work mode

Work Mode

self use

>Mode Select

4.CT/Meter Setting

CT/Meter Setting

Self Use

Feed-in

priority

3.Set the safety standard

Safety

5*.Set export control

Export Control

7.X1-Matebox Setting

X1-Matebox Setting

10000W

Use Value:

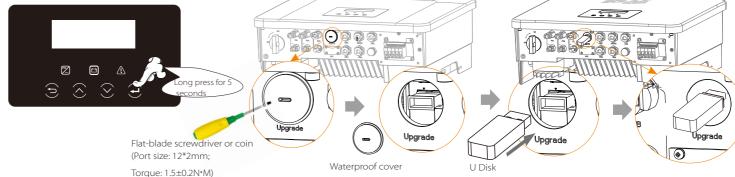
Country

>VDE0126

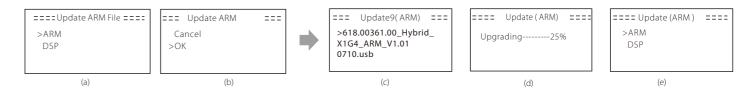
Upgrade steps

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 mode.

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 the U disk



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 ==== ARM >DSP	=== Update DSP File === >618.00360.00_Hybrid_ X1G4_DSP_V1.01_07 10.hex	====Update(DSP) ==== connect	===Update(DSP) === DSP Erasing	====Update(DSP) ==== Upgrading25%	=== Update(DSP) === Upgrade Successful
(f)	(g)	(h)	(i)	(j)	(k) 614.00496.00