# SOLAX RESIDENTIAL HYBRID SYSTEM

SOLAX

7.

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# **REVISION HISTORY**



Version 1.0 (Dec 2020 First edition for product introduction. Version 2.0 (Dec 2020) Modify parameter error. Change the battery connection method. Version 2.1 (Dec 2020) Modify some parameters Version 2.2 (Jan 2021) Modify the design drawing Version 2.3(Mar 2021)

Modify the number of parallel boxes used by the battery and the matching items

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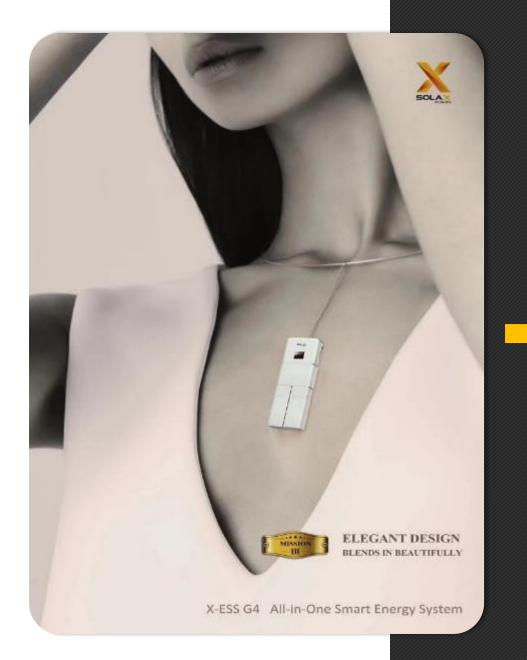




# TRIPLE POWER T-BAT H3.0







# **ALL-IN-ONE DESIGN**

- Integrated the X1-Hybrid inverter, T30 battery and mate box in one system, saving your room space.
- Streamlined design, both for indoor and outdoor use.
- Easy to install and operation.
- Decorate your living room with your household loads.





#### 30 MINUTES 1 PERSON INSTALLATION

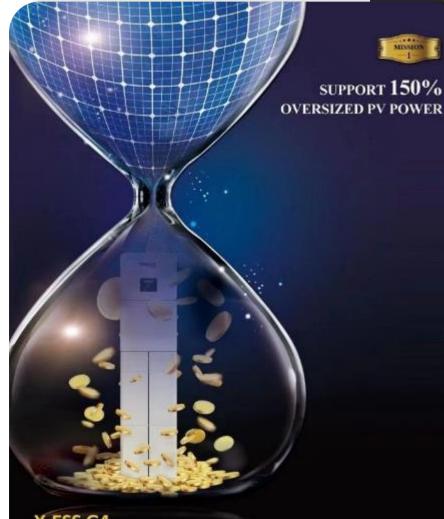
#### X-ESS G4 SolaX Energy Storage Solution, Faster and Easier Installation

0:30:00

# **Quick Installation**

- Each part of the system is within 35Kg, which can be carried by one person without any tools. Inverter: 22Kg+Bat 33Kg (BMS 7.5Kg)+Mate box 10Kg
- Mate Box integrates all system accessories and pre-wiring design, customers only need to assemble the entire system like Lego bricks, plug and play.
- Stacked battery and assembled back bracket design, through some accessories, no need other complicated installation steps.





#### X-ESS G4

#### NO MORE WASTE ON THE EXCESS PV GENERATED SOLAR ENERGY

\* The PV input voltage is within the DC input voltage range. \* The PV numerit is writin the muc DC input current range. \* The miss PV power is no larger than 3.5 \*Max. DC input power, the inverser will limit the PV input power within the range of Max. DC input planer.

## **MORE POWERFUL PV OVERSIZING**

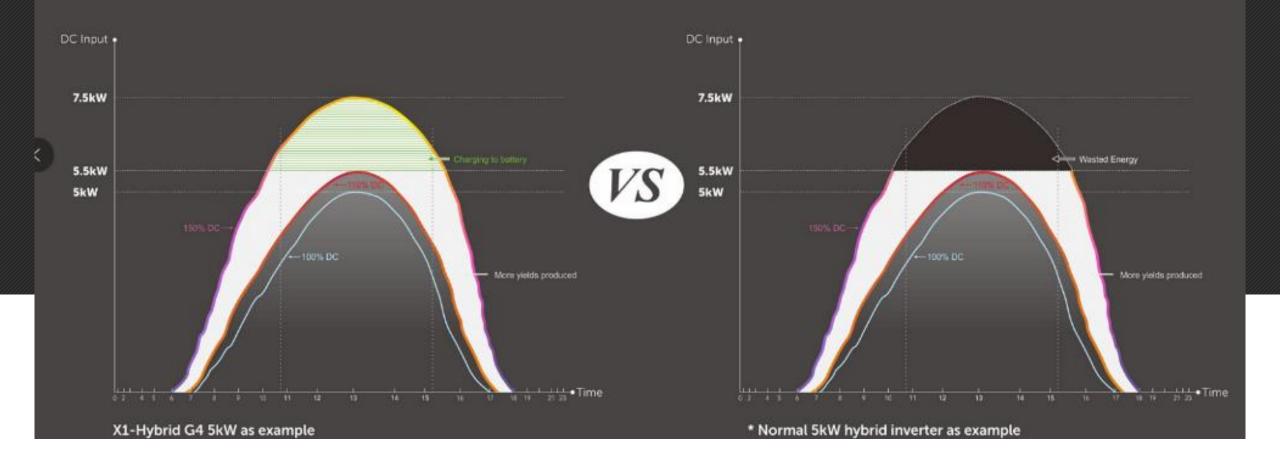
- With a maximum DC input of 14A, and compatible with high-power PV panels.
- And can be oversizing by 150%.
  - (X1-Hybrid-7.5 is 133%)
- The energy produced by the oversized PV panel will not be wasted, this part of the energy will charge to the battery.





### More Solar Energy Lower Electric Bill

Oversized SolaX inverter with a higher DC/AC ratio (15:1) will produce more energy and higher yields during the day for use.



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## **FAST CHARGING & HIGH POWER DISCHARGE**

- High power charge and discharge
- X1-Hybrid, with Triple Power battery, the maximum
  - charge and discharge current 30A .

(The largest in the High voltage energy storage system market)

 Fast charging and high power discharge. It can meet more home loads requirements in emergency situations and also can last longer time.





## PERFECT PERFORMANCE IN EXTREME COLD

- The inverter and Mate Box can also work in extreme cold conditions (Inverter Operating Temp:-35~+60°C)
   The DMC terrestant exertised exertise
- The BMS temperature control system monitors the ambient temperature in real time, and build-in heating module under the control of intelligent algorithms to actively heat the battery to maintain the best operating temperature environment for the battery.





### **STABLE PERFORMANCE IN HARSH ENVIRONMENT**

- IP65 protection can be in&outdoor used.
- The inverter has passed HALT testing, which truly simulates the extreme use environment: High temperature, humidity and salt spray environments still work normally.
- Thanks to high-quality electronic components, the inverter temperature rises steadily, which greatly increases PV production.

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FEATURES



#### One person 30 mins installation

Faster and easier installation



### Support 150% oversized PV power

Excess energy to battery



#### Fast charging and high power discharge

Max 30A charging & discharge current



#### Remote units control & upgrading function

External control communication interface



#### Working under extremely cold condition

Working in full load under extreme cold temp -30°C/-31°F



### On & Off grid parallel use

Inverter on & off gird parallel to support higher power loads



X1-Hybrid-3.0-D/M X1-Hybrid-3.7-D/M X1-Hybrid-5.0-D/M X1-Hybrid-6.0-D/M X1-Hybrid-7.5-D/M

X1-Fit-3.0-D/M X1-Fit-3.7-D/M X1-Fit-5.0-D/M X1-Fit-6.0-D/M X1-Fit-7.5-D/M

"M" means With Mate Box "D" means with build-in DC switch

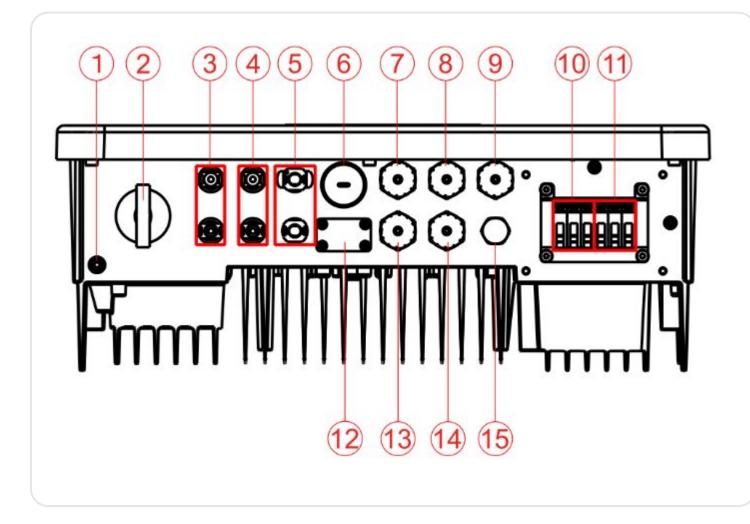
If Mate Box is selected, the corresponding inverter version is "-M"

	X1-Hybrid-6.0	X1-Hybrid-7.5		
INPUT(DC)				
Max. PV array power [Wp]	9000	10000		
Max. input current (input A / input B)	14/14			
MPPT voltage range [V]	70-	550		
Start operating voltage [V]	9	0		
No. of MPPT trackers / String per MPPT	2/1			
INPUT(AC)				
Max. apparent AC power [VA]	9200			
OUTPUT(AC)				
Nominal AC power [VA]	6000 7500			
Max. apparent AC power [VA]	6600 7500			
Nominal grid voltage (AC voltage range) [V]	220/230/240 (180-270)			
Nominal grid frequency / range [Hz]	50	/60		

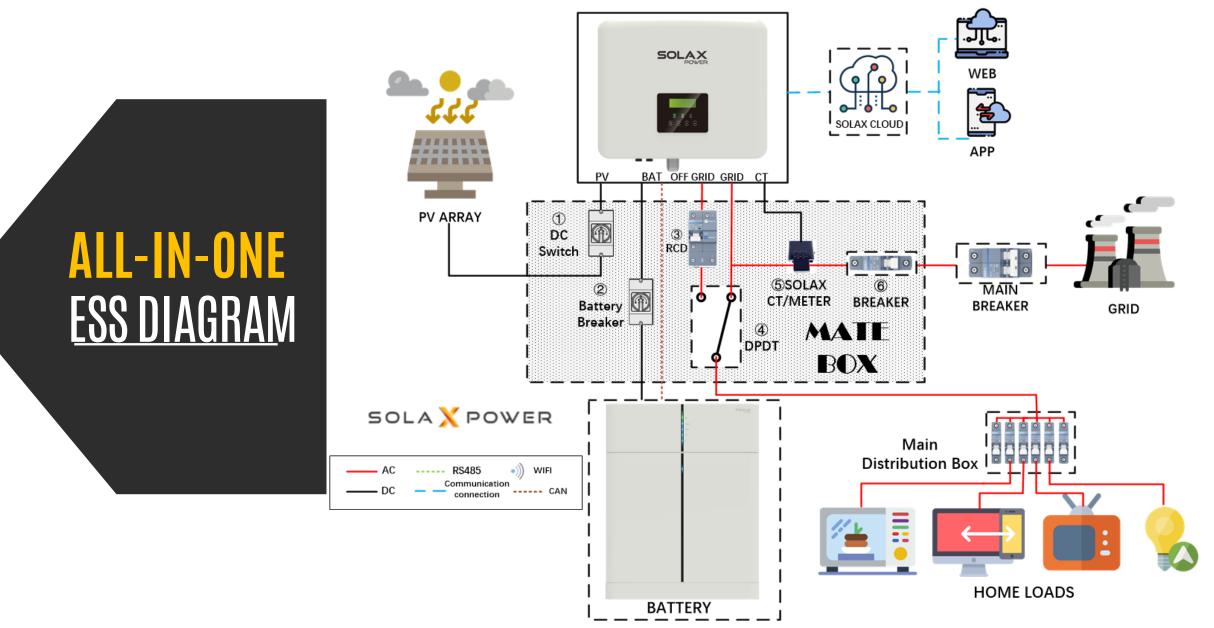
	X1-Hybrid-6.0	X1-Hybrid-7.5		
OUTPUT DC (BATTERY)				
Battery type	Li-ion			
Battery voltage range [V]	80~480			
Max. continuous charge / discharge current [A]	3	80		
EPS OUTPUT (WITH BATTERY)				
EPS Max. continuous apparent power [VA]	6000	7500		
EPS peal apparent power (rated) [%] Duration [s]	120% overload, 600	100%		
Switching time [ms]	Internal switch <10			
ENVIRONMENT LIMIT				
Degree of protection (according to IEC60529)	IP65			
Operating temperature range [°C]	-35~+60°C (derating at 45°C)			
DIMENSION AND WEIGHT				
Dimensions (W*H*D) [mm]	482*417*181			
Weight [kg]	22	23		
Standard warranty [year]	10			

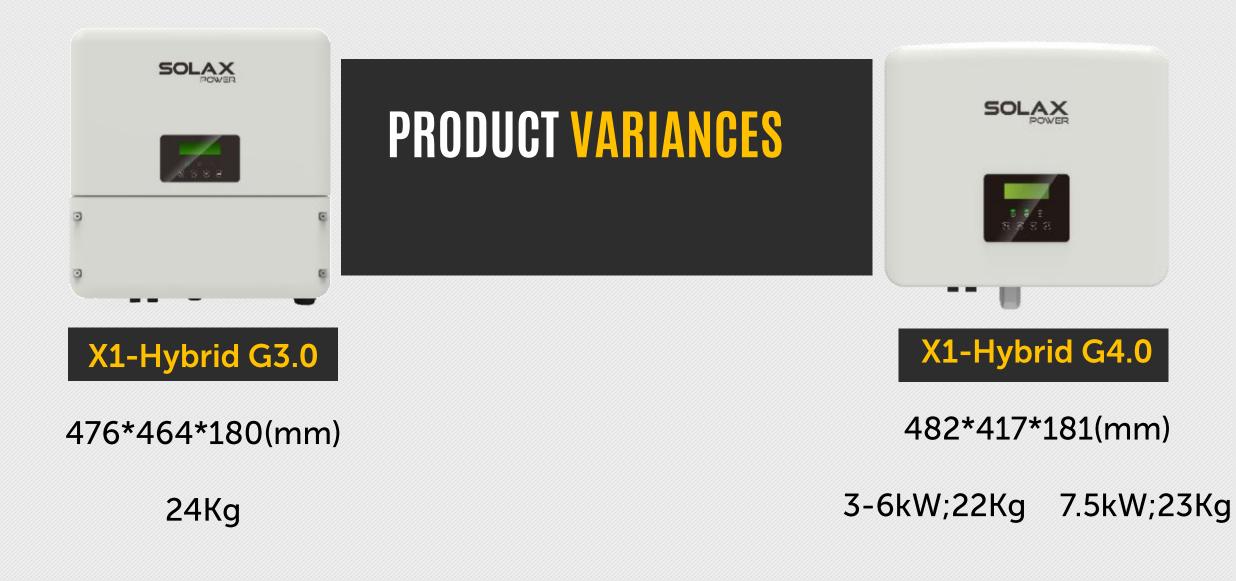


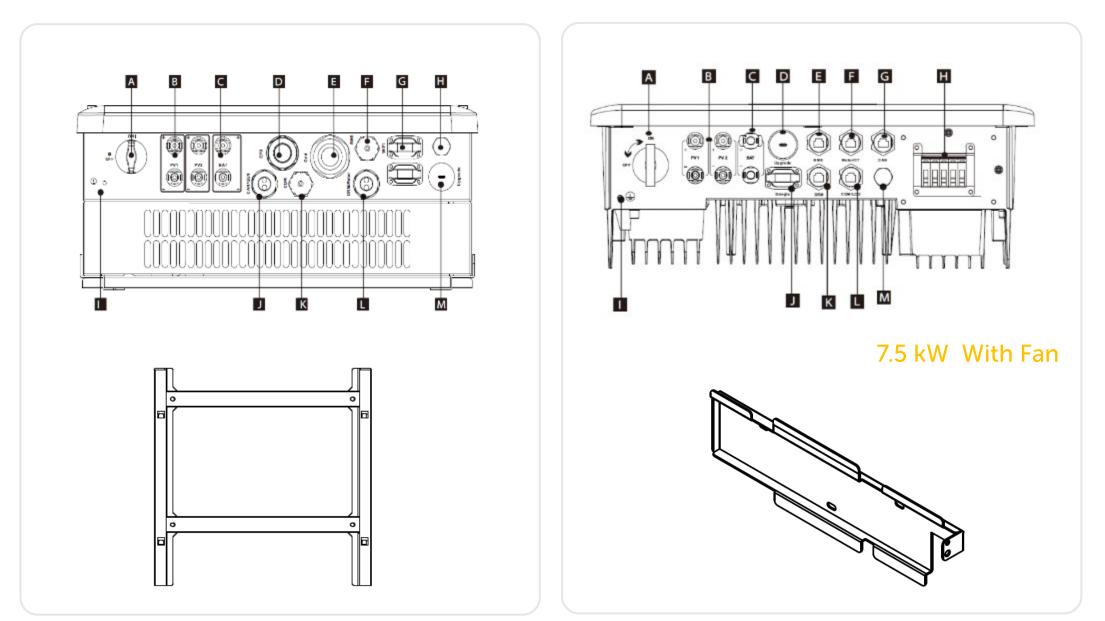
# EXTERNAL TERMINALS



1	Ground Connection Port
2	DC Switch(Optional)
364	PV Connection Area
5	Battery Connection Area
6	USB Port for Upgrading
7	BMS Communication
8	Meter/CT Port
9	CAN Port(Parallel Mode Use)
10	Grid Input & Output
11	Off-gird Output
12	Pocket Dongle
	(External Monitoring Accessories)
13	DRM Port(Only for Australia)
14	External Communication
	(RS 485 connection & LCD Screen)
15	Waterproof valve







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### About Hybrid What's more?

### More options! More possibilities!





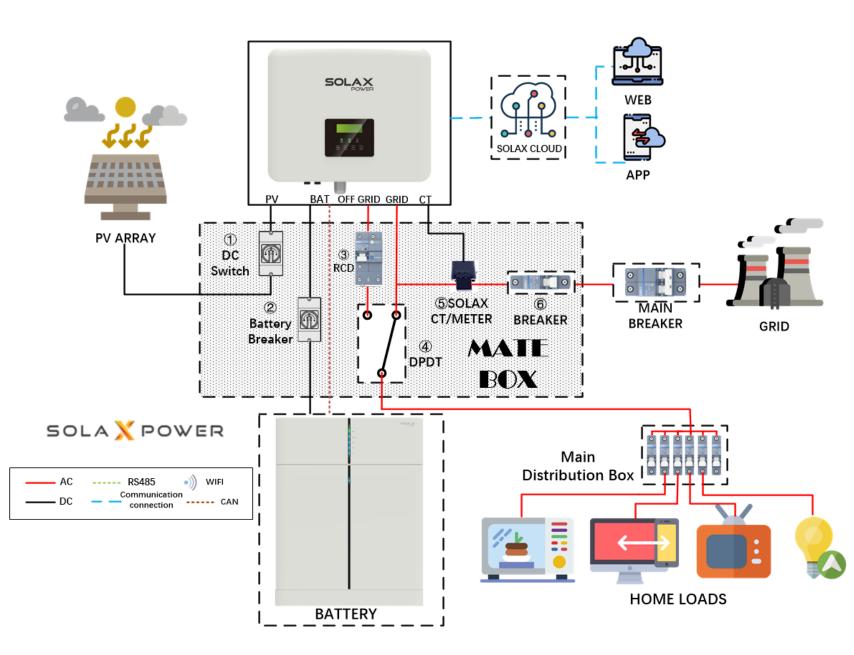
FREE AS Lego blocks!

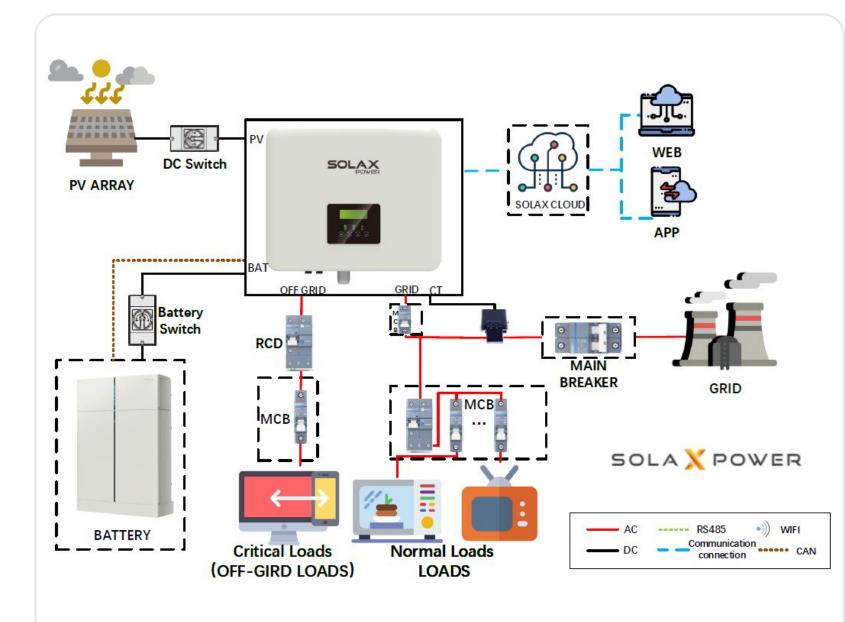
### **ALL IN ONE SOLUTION**

In this solution, the Mate Box contains all the accessories of the inverter system, including DC and BAT switch, CT and RCD.

All wirings are operated inside the box and cabinet, and the outside of the entire system will be clean and tidy.

Thanks to the pre-wired solution, Mate Box will assemble all accessories and cables in advance, omitting complicated installation steps and saving time and money.





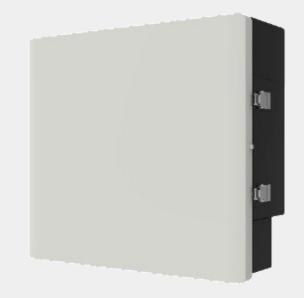
### GENERAL HYBRID Solution

General Hybrid solution can also provide a different experience.

The latest generation of inverter(G4) can not only match the latest batteries(T30), but also compatible with all previous SolaX Triple Power batteries.

Flexible matching solutions will bring customers a better experience.

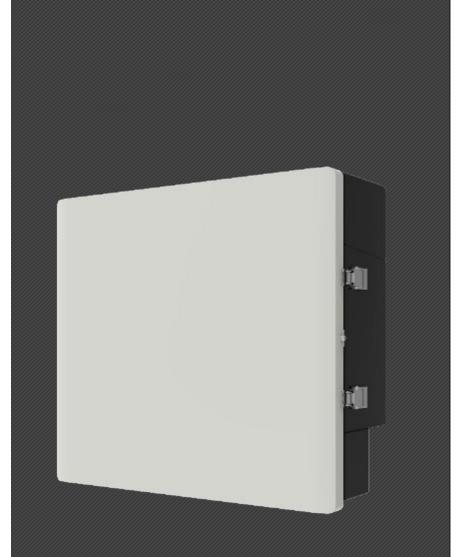




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### One Matebox contains:





- X1-Mate Box is suitable for this all-in-one solution, and it is optional for other solutions
- If Mate Box is selected, the corresponding inverter version is "–M"

## **X1-MATE BOX**

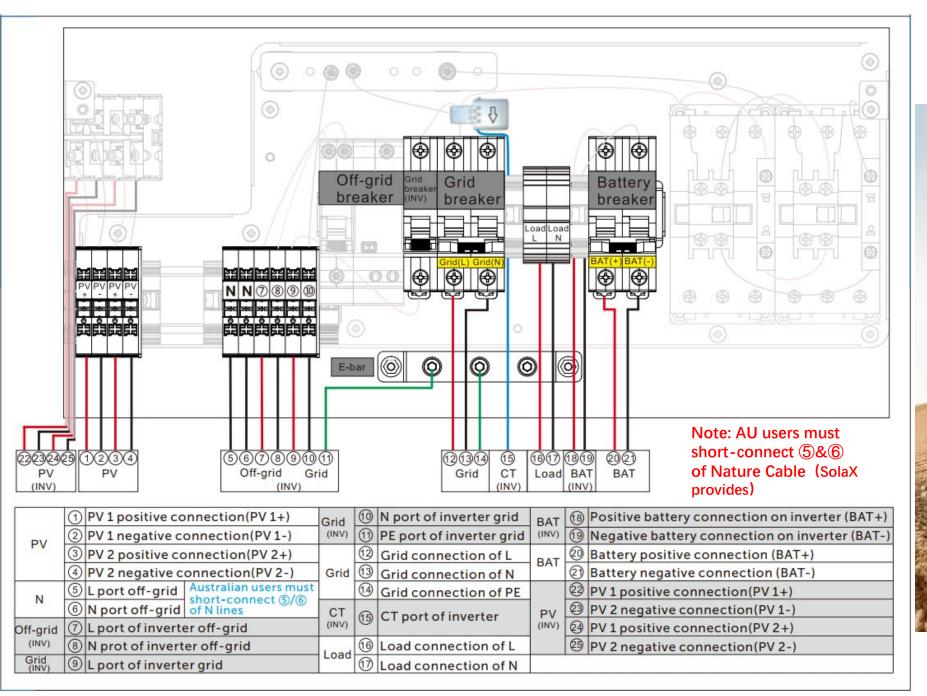
**A.** For the X1-Mate Box, build-in DC switch, BAT breaker, AC & Off-grid breakers, CT, which can reduce customers' expenses on the accessories.

**B.** Pre-installed wiring cables and device can get rid of the complicated wiring work.

Key Parameters	X1-Matebox	
Dimensions(mm)	482*437*185	
Net weight(kg)	10	
Operating temperature range(°C)	-35 to +60	
Storage temperature(°C)	-40 to +70	
Cooling Concept	Natural cooling	
Standard warranty(Years)	3	

 Inverter grounding port **DC Switch** o o ⊛ 🗲 Nature Bar 0 0 ų 🐵 Off-grid **Grid Breaker** at . ⊕ Ð RCD ⊕ Ð ŧ ⊕ ۲ \$ **B B** ۲ 0 ⊕ ETT ETT Ē Ð ۲ TO D \$ æ 0 OO  $\odot$  $\odot$ Ð .oads च्च च्च ⊕ Ð BAT Breaker 📑 🗇 AC Breaker 0 ۲ () DPDT  $\odot$  $\bigcirc$ 0 0  $\bigcirc$ **PV** Ports Inverter ¥ **On&Off gird Switchover Off-grid&Grid Ports** Earth Bar  $\bigcirc$ 0 50  $\neg$ 三三 0 0 Battery grounding port Ò 0 Off-grid **PV Ports** Grid 1 Grid СТ Load Battery CAN (Inverter) (Inverter) (To the main grid) (PV Panels)

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# **TRIPLE POWER BATTERY T-BAT-3.0**



T-BAT-3.0					
Nominal voltage [V]	102.4				
Operating voltage range [V]	90-116				
Total energy [kWh]	3.1				
Usable energy [kWh] (90%DOD)	2.79				
Standard power [kW]	2.55				
Max. power [kW]	3.1				
Recommended char/discharge current [A]	25				
Max. charge/discharge current [A]	30				
Cycle life [90% DOD 25 <b>°C</b> ]	6000 cycles				
Expected life time / Warranty [year]	10				
Available char/ discharge temp range [°C]	-30~+50				
Protection	IP65				
Dimensions (L*W*H) [mm]	MC0600: 482*174*148; HV10230:482*472*148				
Weight [kg]	MC0600: 7.5 Kg; HV10230: 33 Kg				



# **TRIPLE POWER BATTERY SERIES**

- Stackable battery modules, combined with battery base, can realize four different capacity plans
- The battery capacity of T30 is 3.0kWh, and it can be expanded to 4 pieces.T58 battery is 5.8kWh and can expanded to 6 pieces
- T58 and T30 batteries cannot be mixed in one system
- All SolaX Hybird inverters can perfectly match with all series Triple Power batteries.



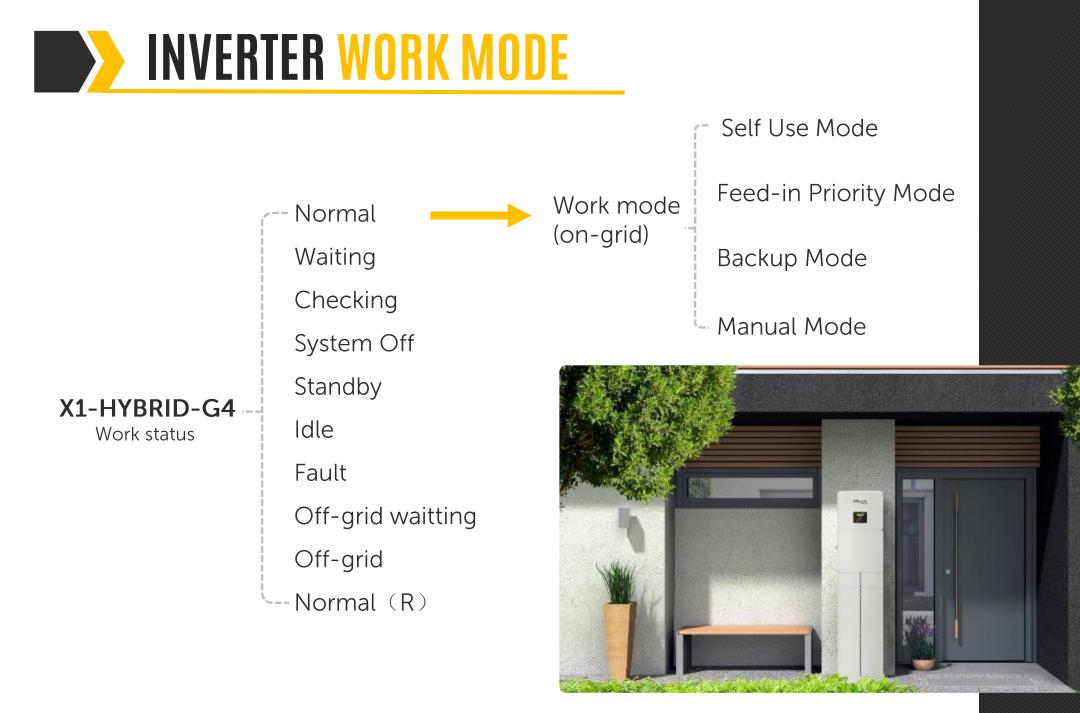
#### T-BAT H 5.8-23.2kWh

T-BAT H 3.0-12.0kWh

X1-G4 need to use battery parallel box to be compatible with up to 6 batteries.(the number of matched batteries must be an even number) The battery parallel box can only be compatible with HV11550.

	T-BAT-5.8	T-BAT-3.0	
Appearance			BATTERY T-BAT-3.0
Dimensions	Battery Module & Build In BMS:474mm(L)* 193mm(W)*708mm(H) Battery Module:474mm(L)*193mm(W)*647mm(H)	BMS MC0600: 482mm(W)*174mm(H)*148mm(D); Battery Module HV10230:482mm(W)*472mm(H)*148mm(D)	Performance comparison
Weight	Battery Module&Build In BMS: 72.2kg Battery Module: 68.5kg	BMS MC0600: 7.5 Kg; Battery Module HV10230: 33 Kg	
Capacity	5.8KWh	3.1KWh	
Nominal voltage	115.2V	102.4V	
Cycle life	6000	6000	
Nominal/Max. power	2.9kW/4.0kW	3.1KWh	
Operating Temperature	0~55°C	-30~55°C	
IP protection	IP55	IP65	







### When inverter enter into standby condition (On-gird)

• When inverter discharge time period is active, when:

(1)There is no PV , and

(2)The loads power is very low (<100W), timing for 5 minutes,

the system enters standby status;

When inverter charging time period is active, when:

 (1)The battery capacity is> SOC\_charge from grid (the upper limit of battery charging SOC) and
 (2)There is no PV, the system enters standby status;

• In other time periods, without PV, the system enters standby status;





### When inverter enter into Idle status? (On-gird)

• The inverter state is checking, Normal or Standby state, when:

(1)battery capacity < Min SOC(On-grid min SOC) and

(2)no PV and

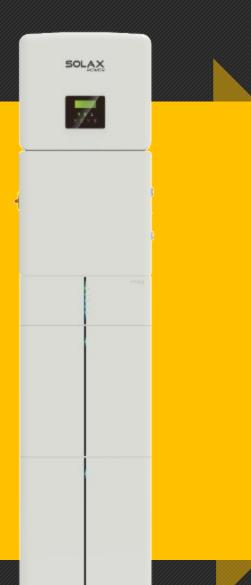
(3)non-mandatory charging time period, non-battery recharging phase.

this state lasts for 30s, and the system will enters Idle status;



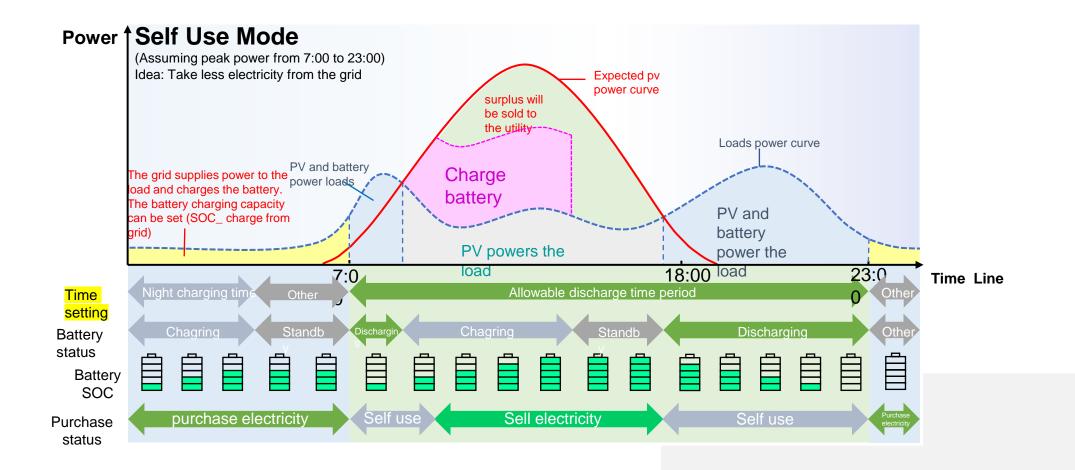


First of all, our inverter can set a total of two time periods, each time period includes 1 charging time period and 1 discharging time period, and the interval not in the charging & discharging time period belongs toother time periods.









### **INVERTER WORK MODE -- SELF-USE**

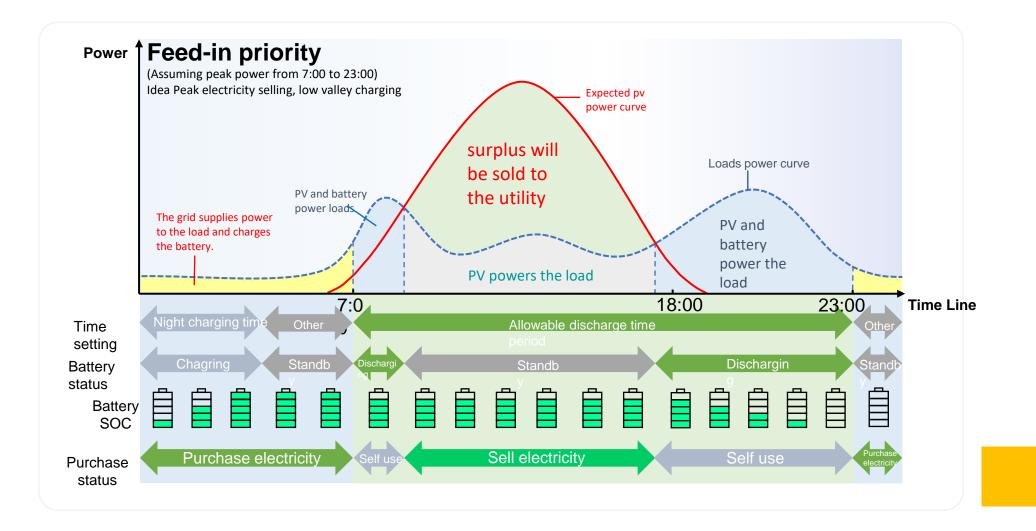
 $\star$  The battery is only discharged during the discharge time period, and not discharged during other time periods.

Work mode	Time period	Battery SOC	PV and load conditions	INV work status
	charging time	Battery soc <soc_ charge from grid</soc_ 	Х	Charge the battery from PV and AC, take priority from PV, if PV is not enough, then take power from AC side, stop charging after charging to SOC_ charge from grid
		Battery soc ≥ SOC_ charge from grid	PV>LOAD	PV gives priority to the load to supply excess energy to charge the battery, and then the excess is used to sell electricity. If the local utility prohibits the sale of electricity to the grid, the Inv will Limit output power.(1)
			PV <load< td=""><td>Only PV supplies power to the load. If the PV power does not meet the load consumption, the remaining energy is obtained from the grid and <b>the battery is not discharged</b>. If there is no PV, Inv will enter the standby status.</td></load<>	Only PV supplies power to the load. If the PV power does not meet the load consumption, the remaining energy is obtained from the grid and <b>the battery is not discharged</b> . If there is no PV, Inv will enter the standby status.
Self use	Allowable	je X	PV>LOAD	PV gives priority to the load to supply excess energy to charge the battery, and then the excess is used to sell electricity. If the local utility prohibits the sale of electricity to the grid, the Inv will Limit output power.(1)
	discharge time period		PV <load< td=""><td>PV and battery supply power to the load at the same time. When the battery capacity drops to Min SOC(On-grid min SOC) , it stops discharging. If there is no PV, it enters Idle status.</td></load<>	PV and battery supply power to the load at the same time. When the battery capacity drops to Min SOC(On-grid min SOC) , it stops discharging. If there is no PV, it enters Idle status.
	Other time period	Х	PV>LOAD	PV gives priority to the load to supply excess energy to charge the battery, and then the excess is used to sell electricity. If the local utility prohibits the sale of electricity to the grid, the Inv will Limit output power.(1)
			PV <load< td=""><td>Only PV supplies power to the load, and <b>the battery does not discharge</b>. If there is no PV, battery SOC &gt; Min SOC(On-grid min SOC) Inv will enter standby status. When battery SOC = Min SOC(On-grid min SOC) , the machine will enter idle status.</td></load<>	Only PV supplies power to the load, and <b>the battery does not discharge</b> . If there is no PV, battery SOC > Min SOC(On-grid min SOC) Inv will enter standby status. When battery SOC = Min SOC(On-grid min SOC) , the machine will enter idle status.

**SOC\_ charge from grid**: Refers to the upper limit of SOC required to charge the battery from the city network during the charging period. The SOC value can be set between 10% and 100%. This function is turned off by default in self use mode and can be turned on manually. It is turned on by default in feed in priority mode & back up mode and cannot be turned off. Min SOC(On-grid min SOC): Minimum SOC under grid connection. Self use mode & feed in mode adjustment interval is 10%~100% back up mode adjustment interval is 30%~100%. X: This data is meaningless at this time.



# **FEED IN PRIORITY**



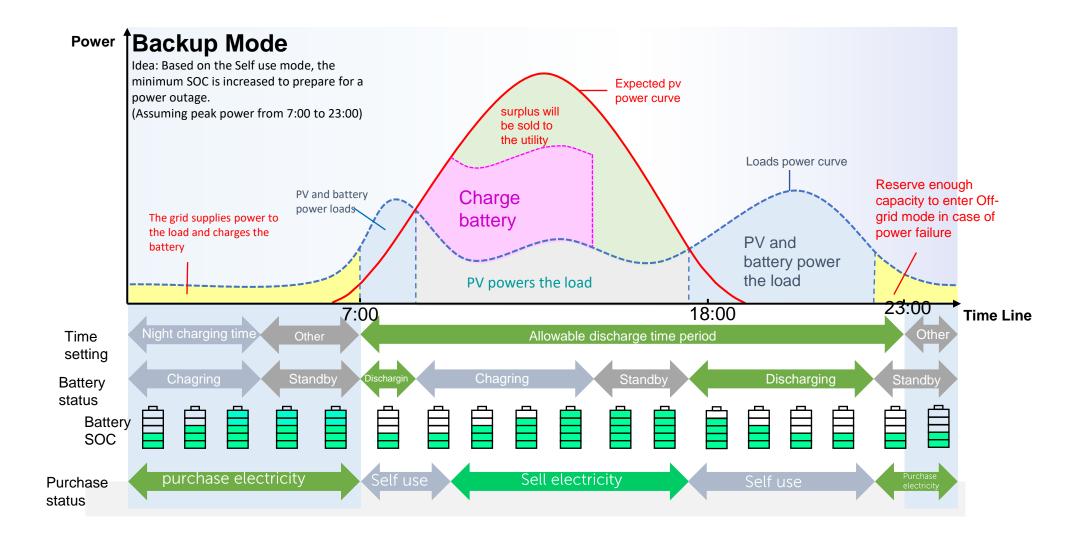
### **FEED IN PRIORITY**

 $\star$  The battery is only discharged during the discharge time period, and not discharged during other time periods.

Work mode	Time period	Battery SOC	PV and load conditions	INV work status	
	charging time	Battery soc < SOC_ charge from grid	Х	Charge the battery from PV and AC, take priority from PV, if the PV energy is not enough, then take power from the AC side, and stop charging after the battery is charged to SOC_ charge from grid, and then Inv enters standby status.	
	Allowable	Х	PV>LOAD	PV supplies power to the load. If there is excess power used to sell power, if the excess power is greater than the Export limits power, the extra limit is used to charge the battery.	
Feed-in priority			PV <load< td=""><td>PV and battery supply power to the load at the same time. When the battery capacity drops to Min SOC(On-grid min SOC) , it stops discharging. If there is no PV, it enters Idle status.</td></load<>	PV and battery supply power to the load at the same time. When the battery capacity drops to Min SOC(On-grid min SOC) , it stops discharging. If there is no PV, it enters Idle status.	
	Other time	Х	PV>LOAD	PV supplies power to the load. If there is excess power used to sell power, if the excess power is greater than the Export limits power, the extra limit is used to charge the battery.	
	period		PV <load< td=""><td>Only PV supplies power to the load, and the battery does not discharge. If there is no PV, battery SOC &gt; Min SOC(On- grid min SOC) Inv will enter standby status. When battery SOC = Min SOC(On-grid min SOC) , the machine will enter idle status.</td></load<>	Only PV supplies power to the load, and the battery does not discharge. If there is no PV, battery SOC > Min SOC(On- grid min SOC) Inv will enter standby status. When battery SOC = Min SOC(On-grid min SOC) , the machine will enter idle status.	







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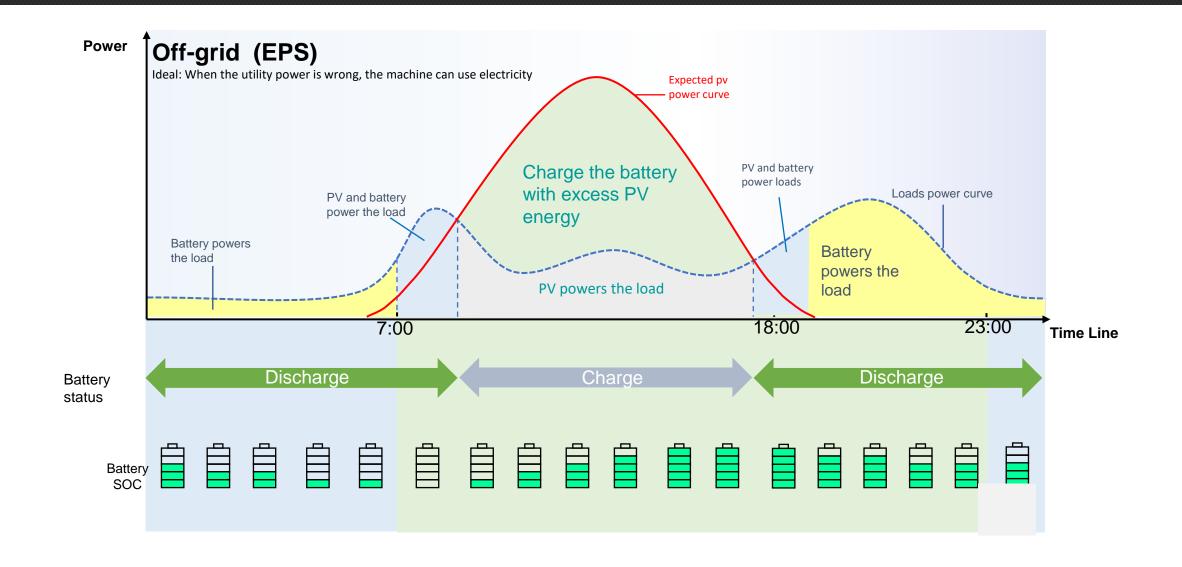
 $\star$  The battery is only discharged during the discharge time period, and not discharged during other time periods.

Work mode	Time period	Battery SOC	PV and load conditions	INV work status
	charging time	Battery soc <min SOC(On-grid min SOC):</min 	Х	Charge the battery from PV and AC, take priority from PV, if PV is not enough, then take power from AC side, stop charging after charging Min SOC(On-grid min SOC).
Back up	Allowable discharge time period	Х	Х	The working logic is the same as for self-use, but it enters the standby status when it reaches Min SOC(On-grid min SOC). At this time, if the grid power is cut off, it will enter the off-gird status, and after discharging to Min SOC(Off-grid min SOC):, it will
	Other time period	Х	Х	report that the battery power low.

Min SOC(On-grid min SOC): Minimum SOC under grid connection. Self use mode & feed in mode adjustment interval is 10%~100%, but back up mode adjustment interval is 30%~100% Default 50%. Min SOC(Off-grid min SOC): Refers to the minimum SOC value for battery discharge in off-grid mode. The value is 10% and cannot be set, and it is not displayed on the machine interface. X: This data is meaningless at this time



# **OFF-GRID (EPS)**





### **INVERTER WORK MODE - OFF-GRID (EPS)**

Work mode	Time period	Battery SOC	PV and load conditions	INV work status	
		Battery soc > Min SOC(Off- grid min	PV>LOAD	When operating in off-grid status, PV will give priority to the load, and the excess energy will charge the battery.	
Off			Min PV <load and="" battery="" discharge="" is="" min="" put="" soc="" soc(off-<="" soc(off-grid="" soc)="" td="" th="" the="" to="" until="" will=""></load>		
grid (EPS)	0	SOC)	Too much load	If the load exceeds the rated power of the machine or the discharge capacity of the battery, the machine reports an overload error. The machine can automatically recover, but manual intervention is required to recover after 3 consecutive errors. (Recommend customers to turn off partial loads)	
		Battery soc ≤ Min SOC(Off- grid min SOC)	Х	The machine reports a battery low error. When PV arrives, PV will charge the battery first. After charging to the set value "minimum SOC off-grid restart", it will automatically recover and enter the off-grid state again.	

Min SOC(Off-grid min SOC):: Refers to the minimum SOC value for battery discharge in off-grid mode.

The value is 10% and cannot be set, and it is not displayed on the machine interface.

Min SOC Off-grid restart: When the battery capacity reaches the machine's automatic start SOC inverter will restart automatically: This means that PV starts to charge the battery after reporting the battery low voltage error when the battery is off the grid. After the PV re-input energy, the battery needs to be charged to the SOC to automatically return to the off-grid mode. The default value is 50% and cannot be set.

X: This data is meaningless at this time



### **INVERTER WORK MODE - MANUAL**

Manual mode (debugging / after-sales)	<b>1. Forced charging</b> Manually take power from the grid to charge the battery	Manual: > Forced Charge ( Press d to Save.
3. Stop charging and discharging	<pre>&gt;Manual: &gt;Manual: Forced Discharge Press d to Save.</pre>	Contract Structure Stru



### **Parametear settings**

#### Through the LCD screen

User password: 0000 Advance password: 2014

#### Via APP

X1-Hybrid G4 APP (under development)

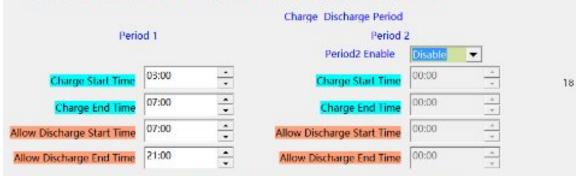
#### U disk modification(under development)

Generate a parameter file through the master computer software, and then insert the U disk with the parameters set into the inverter, the inverter will be automatically set; in addition, the inverter will also synchronize some machine parameters to the USB. After unplugging the USB of the inverter, insert the computer to read the parameters and inverter information through the master computer software.

The master computer parameter setting is divided into basic parameters and advanced parameters



\* Note: This parameter means the up limit of SoC that Battery can be charged to at night.



\* Note: Each period shall not interleave, otherwise these parameters cannot be saved correctly.

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12



### **INVERTER PARAMETER SETTINGS - BASIC**

1 🗞 Basic Settings 📡	Advanced Settings	Vbout					
		Basic	Setting				
1 Language Eng	lish 💌	3 Mate Box Setting	Disable 💌	5 Off-grid Mute	No		
2 Safety Code VD	0126	4 Meter/CT Select					
<b>_</b>							
		6 Work	Mode				
			1				
Self Use 🔎	Feed-in	priority 🔿	Bac	kup 🔿		Manaul C	
Min SoC 10	Min So	xc 10	Min SoC	30			
Charge At Night Disable	-						
*Charge Battery To 50 *Charge Battery To 50							
* Note: This parameter means the up limit of SoC that Battery can be charged to at night.							
		7 Charge _Discharg	ge Period			224	
Perio	d 1		Period 2		_	-	
		Period	2 Enable Disable	-			
Charge Start Time	23:00	Charg	e Start Time 00:00	-			
Charge End Time	07:00	Char	ge End Time	-	18	8	
Allow Discharge Start Time	07:00 * * 21:00 *	Allow Discharg	e Start Time				
Allow Discharge End Time	21:00 -	Allow Dischar	ge End Time	-		12	
* Note: Each period shall not In	terleave, otherwise these pa	arameters cannot be sav	ed correctly.				

Serial number	Function description		
1	Interactive language of machine		
2	Select Local grid standards		
3	Choose whether to match the mate box		
4	Choose machine with CT or meter		
5	Choose whether the machine is muted in off-grid		
6	Select the working mode of the machine, refer to the mode explanation for mode definition,		
7	Set the charging and discharging time period of the machine		
8	Time period display		

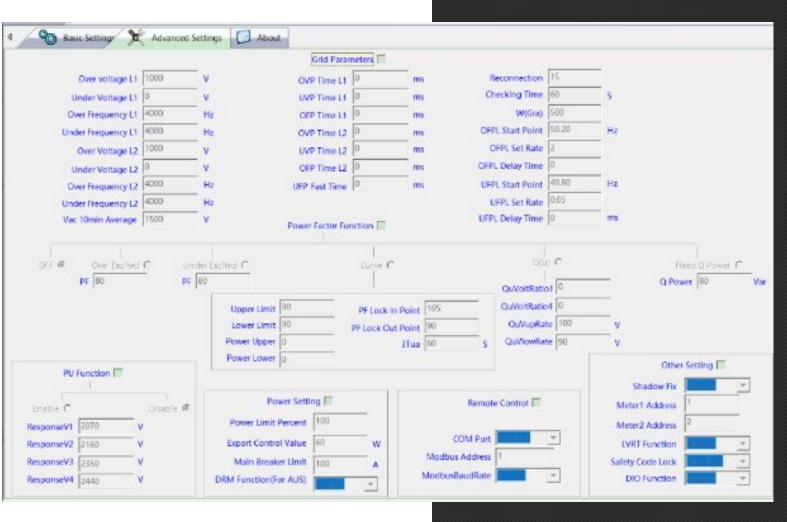
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### **INVERTER PARAMETER SETTINGS - ADVANCED**

### **PARAMETER SETTINGS**

- The parameter can be changed after it is checked, and the unchecked parameter defaults to gray.
- After selecting the safety regulation on the first page, the parameters not used by the safety regulation will be grayed out.
- After the parameters are changed, the color of the candidate frame is different from the default color, which is convenient to distinguish which parameters have been modified.

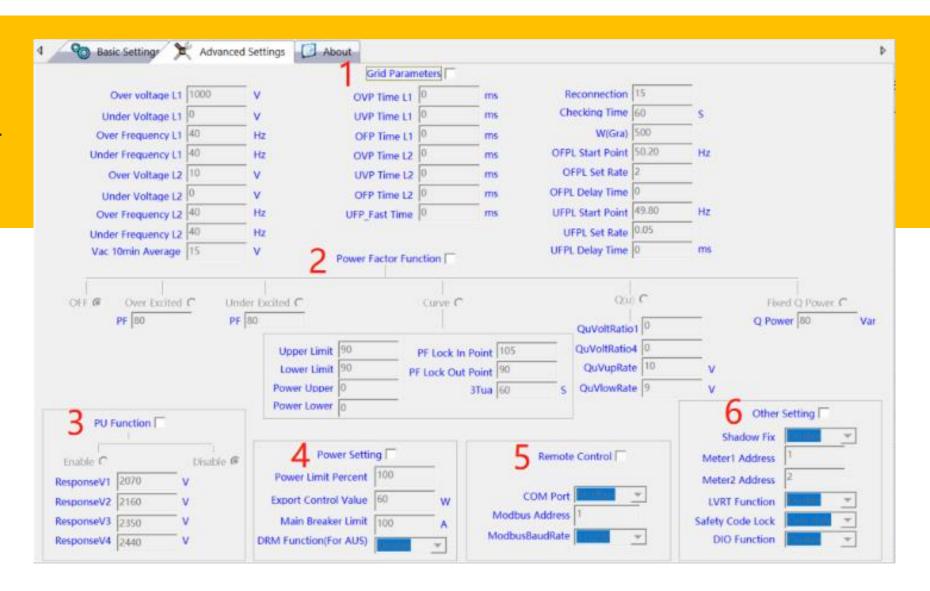


### **INVERTER PARAMETER SETTINGS - ADVANCED**

Please refer to excel for related explanation.



X1-HYBRID-G4 term explanation





### **INVERTER PARAMETER SETTINGS - ABOU**

Basic Settings	Advanced Setting About
Work State	
Inverter SN	
Register SN	
Inverter code	
DSP Version	
ARM Version	
Bat_M SN	
Bat_PS1 SN	
Bat_PS2 SN	
Bat_PS3 SN	
Bat_PS4 SN	
BatteryM Version	
BatteryS Version	
Error Log1	
Error Log2	
Error Log3	
Error Log4	
Error Log5	
Error Log6	

#### About

- After inserting the U disk, you can export the inverter parameter settings and system SN number, software version and error information from the inverter
- The information can only be read and cannot be modified. The purpose is to facilitate after-sales analysis of the cause of inverter failure.



### **INVERTER PARAMETER SETTINGS - BASIC**

4 90	Basic Settings Settings Adv	anced Settings 🗭 About	Serial number	Function description	
1	Inverter SN Register SN Inverter code DSP Version ARM Version			1	Machine working mode, serial number, monitoring module serial number, internal code, DSP&ARM version
2	Bat_M SN Bat_PS1 SN Bat_PS2 SN Bat_PS3 SN Bat_PS4 SN BatteryM Version			2	The serial number of the battery master and slave, and the software version of the battery master and slave
2	BatteryS Version Error Log1 Error Log2 Error Log3			3	Error log
3	Error Log4 Error Log5 Error Log6				

# THANK YOU

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