

APP Quick Guide

This chapter is mainly introduces the operation of APP.

1、 FirstStartup

Step 1 Login the following website to download the APP and do WIFI configuration.

Download APP

APPSTORE: https://apps. apple. com/cn/app/wisesolar-plus/id1510470362



GOOGLE PLAY: https://play.google.com/store/apps/details?id=com.kehua.Wisesolarpro



Step 2 WIFI configuration

Operation guide: https://energy. kehua. com/quickStart



Step 3 Register, as follows.

Open the APP.

- 1) Click Register button.
- 2) Select **By mobile** phone or **By Email** according to actual condition.
- 3) Enter corresponding information according to prompting.

Note

- 1) Logger code can be entered by scanning the QR code of WIFI on the device.
- 2) For detail operation, please see the quick start guide of APP.
- 3) If you changed the setting with "*", this setting will take effect after the inverter is restarted.

2、 Hybrid Inverter Information Query

Step 1 In main page, click My plant to enter the Details page, as shown in Figure 1.

DemoKH@kehua.c	🌔	< Details
Today 2023-06-25	1	O 24-32°C Overcast Demo
0.00 0.00 Power generati on(kW) Generation(kWh)	0.00 Profit(¥)	PV(kW) Grid(kW) 0.000 4.222
25.2kg 0.0kg	0.0Tree	Battery(kW) Load(kW) (1000) 4.026 0.087
Demo Day generated(kWh)	»	Carteria (kWh)
+	٩	0.00 Profit(¥) 0.00 Day Week Month Year Total
T id		

Figure 1 My plant

Step 2 Click the inverter icon to view the system page and information, as shown in Figure2

< Details	CINVERTER Logger Others	41
Demo	Inverter S/N or alias Q ⊘ ① % % Filter 7	0.2kw
PV(kW) 0.000 Grid(kW) 4.222	5A1523006370P56XC002 Household energy storage - split phase	501523003780P2100013 iStoragE2A 12000
Battery(kW) 4.026 0.087	iStoragE2A 12000	Generation statistics 67.4kwh
		Battery info 57.9% Self-consumptio n 45.08%
^		Work mode Anti-backflow function
Generation(kWh)		Battery protection
e Profit(¥)		
Day Week Month Year Total		
	Figure 2 Device detail	

3、 Device Control

Click the "Control" icon, you can set "Grid setting" "basic setting" "basic battery settings" "System setting" "Schedule setting"



Figure 3 Device detail

The settings are explained as follows

NO.	Item	Parameter name	Expected action of setting the parameter/modifying its value	
		*Grid level I under-voltage protection value(%)	The minimum grid voltage available	
		*Grid level I over-voltage protection value(%)	The maximum grid voltage available	
		*Grid under-voltage protection recover value(%)	When the grid voltage increase to this value, the system will resume	
		*Grid over-voltage protection	When the grid voltage decreases to this value, the	
		recover value(%)	system will resume	
		P-V mode	The active power varies with the voltage	
		*Q-V mode	The reactive power varies with the voltage	
	Grid	SPF mode	Not need to setting, please keep it OFF	
1	setting *Grid level I under-voltage protection time setting		Operating time available in Grid level I under-voltage	
*Grid level I ov protection time setting		*Grid level I over-voltage protection time setting	Operating time available in Grid level I over-voltage	
		*Grid level I under-frequency	Operating frequency available in Grid level I	
		protection value setting	under-frequency	
		*Grid level I over-frequency	Operating frequency available in Grid level I	
		protection value setting	over-frequency	
		*Grid level I under-frequency	On anothing time, available in Crid lavel Lunder frequency	
		protection time setting	Operating time available in Grid level I under-frequency	
		*Grid level I over-frequency protection time setting	Operating time available in Grid level I over-frequency	

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		*Grid under-frequency protection	When the grid frequency increase to this value, the
		recover value setting	system will resume
		*Grid over-frequency protection	When the grid frequency decreases to this value, the
		recover value setting	system will resume
		ON/OFF	Turn ON / Turn OFF
		External control mode	The item is used to enable or disable the external control
		External control mode	mode.
			The item is used to select whether to auto start when
		Auto start when nower on	power on. When the function is enabled, once the device
		Auto-start when power on	has power source (PV or grid), it will be started
			automatically.
			This item is used to select whether to enable the active
			islanding function. When the function is enabled, if the
			device stays in islanding status, it will disconnect the
		Active islanding	connection with grid automatically.
			Avoid islanding operation(The grid power is still detected
			when PV power equals to the load, and if grid outage
	Basic		occurred at this time, system can enter off-grid mode)
2	setting		Battery to grid export(This item is just available for Time
	ootting	Fully to grid	of use mode)
			This item is used to select whether to enable grid-tied
			with max power in peaking time. When the function is
			enabled, if the device stays in time of use mode and in
			the peaking time, it will support the energy of max power
			to load and grid.
			Limit grid import
		Enable power limit from grid	This item is used to select whether to allow get energy
			from grid. When the function is enabled, the power of grid
			can be set.
		*Reset Setting	Reset system
			This item is used to select whether a meter is on the
		Grid side meter	power grid side. When the function is enabled, The
			default meter is Chint split-phase meter.
	Basic	Battery charge/discharge power	Maximum charge and discharge power of the system.
3	battery	setting	This item is just available for external control mode, for
	settings	Currence communication band	other modes, it is invalid.
	System	sunspec communication band	Band rate for communicating with other system
4	setting	System time setting	Time setting
		System time setting	This item is just available for external control mode, for
		Power control mode	other modes, it is invalid
			This item is used to select the work mode of device. After
	Schodulo	Work mode	sotting when the device stave in corresponding time, it
5	Schedule	vvork moae	will perform corresponding action
	seung	SOC threshold of discharge	
		ending(%)	Discharge ending SOC
		Active power mode	This item is just available for external central mode, for
1	1		This term is just available for external control mode, for

			other modes, it is invalid.			
			Active power is scheduled by SI or P.U.			
			This item is just available for external control mode, for			
		Active power(P.U.)(%)	other modes, it is invalid.			
			This item is just available for external control mode, for other modes, it is invalid. Scheduled by P.U. This item is just available for external control mode, for other modes, it is invalid. Reactive power is scheduled by SI or P.U. This item is just available for external control mode, for other modes, it is invalid. Scheduled by P.U. This item is just available for external control mode, for other modes, it is invalid. Scheduled by P.U. This item is just available for external control mode, for other modes, it is invalid. This item is used to select the hybrid inverter output power is to satisfy the reactive power first or active power first. This item is just available for external control mode, for other modes, it is invalid.			
			This item is just available for external control mode, for			
		Reactive power mode	other modes, it is invalid.			
			Reactive power is scheduled by SI or P.U.			
			This item is just available for external control mode, for			
		Reactive power(P.U.)(%)	other modes, it is invalid.			
			Scheduled by P.U.			
			This item is just available for external control mode, for			
			other modes, it is invalid.			
		Reactive power first	This item is used to select the hybrid inverter output			
			power is to satisfy the reactive power first or active power			
			first.			
			This item is just available for external control mode, for			
		Power factor	other modes, it is invalid.			
			The proportion of active power in total power			
		Anti-backflow control power(%)	When it is set to 0%, that means the discharging for grid			
			is completely prohibited.			
			This function is used to enable the zero-export function.			
		Anti-backflow function	When the local laws and regulations do not allow			
			discharging for grid, the function can be enabled			
		SOC threshold of charge	Charge ending SOC			
		ending(%)				
		Allow gird charge power(W)	Allow gird charge power			
			This item is just available for external control mode, for			
		Active power(SI)setting	other modes, it is invalid.			
			The active power of system			
			This item is just available for external control mode, for			
		Reactive power (SI)setting	other modes, it is invalid.			
			The reactive power of system			

4、 Indicator light

Green indicates that the system is running properly; Red indicates that an alarm is generated; Click the inverter icon to show the detailed alarm, as shown in Figure4



Figure 4 Indicator light

5、 Generation statistics

Click "Generation statistics" to display daily generation curve, as shown in Figure 5 And at the bottom, you will view the Week, Month, Year even Total data, as shown in Figure 6



Figure 5 Generation statistic page

< Generation statistics	< Generation statistics	< Generation statistics	< Generation statistics
<	<	<	Unit : kWh
Unit : WM 2	Unit : KWh 23	Unit : KWh	2023 Generation
Sun Mon Tues Wed Thur Fri Sat Generation Generation Consumed	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 Generation	1 2 3 4 5 6 7 8 9 10 11 12 Generation Consumed	Generation Consumed 912.3kwh 410.9kwh
263.7kWh 70.1 kWh	912.3kwh 410.9kwh	912.3kwh 410.9kwh	
Day Mark Mark You Table			

Figure 6 Week Month Year Total data

6、 Running data

Grid info

In the "Grid Info" item, you can view the "daily grid-tied generated", "daily grid", etc., as shown in Figure 7.

Running data	
Running data Status o	data
Grid Info	
Daily grid-tied generated(kWh)	0.0
Daily grid consumed(kWh)	4.7
Total grid generated (kWh)	248.5
Total grid consumed (kWh)	39.9
Grid side load apparent power (kVA)	0.520
Grid side load active power (kW)	0.520
Grid side load reactive power (kVar)	

Figure 7 Grid info page

Battery info

In the "Battery Info" item, you can view the "Daily charged", "Daily discharged", etc., as shown in Figure8.

<	Running data	
	Running data	Status data
	Battery info	
	Daily charged(kWh)	
		1.0
	Daily discharged(kWh)	0.0
	Total battery power (KW)	0.0
		-0.118
	Battery total SOC (%)	
		30.0
	Load Info	
	Daily load consumed(kWh)	
		4.3
	Total load consumed (kWh)	250.1

Figure 8 Battery info page

Load info

In the "Load Info" item, you can view the "Daily load consumed", "Total load consumed", etc., as shown in Figure 9.

Running data		
Running data	Status data	
Load Info		
Daily load consumed(kWh)		
	4.3	
Total load consumed (kWh)	250 1	
l oad apparent power (kVA)	200.1	
	0.044	
Load active power (kW)		
	0.044	
Load reactive power (kVar)	0.012	
	-0.012	
iotai ioad apparent power (kVA)	0.558	
Total Load active power (kW)		
	0 562	

Figure 9 Load info page

PV info

In the "PV Info" item, you can view the "Daily PV energy", "Total PV energy", etc., as shown inFigure10.

Running data		
Running data	Status data	
PV info		
Daily PV energy(kWh)	0.4	
Total PV energy (kWh)	537.8	
Total PV power (kW)	0.5	
PV1 voltage (V)	106.0	
PV1 current (A)	0.5	
PV1 power (kW)	0.056	
PV2 voltage (V)		

Figure 10 PV info page

7、Battery info

In the "Battery Info" item, you can view the "Battery Overview" containing "Day charged" "Day discharged" "Total charged" and "Total discharged", also, at the top, you can select battery 1 to 4 for details, as shown inFigure11.

\$16	< Battery Overview ~	< Battery Overview V
0.2**	Discharging SOC 57.9%	Discharging 0.77 kw
501523003780P2100013 iStoragE2A 12000	Unit : %	Unit : %
Generation statistics 67.4 _{kWh}	02:29 05:09 07:47 10:20 12:58 15:52 18:25 SOC	02:29 05:09 07:47 10:20 12:58 15:52 18:25 SOC
Battery info 57.9% Self-consumptio n 45.08%	Day charged Day discharged 10.50kwh 5.80kwh	Day charged Day discharged Battery Overview
Work mode Anti-backflow function	Total charged Total discharged 214.60kwh 131.20kwh	Battery pack1 Battery pack2
Battery protection		Battery pack3 Battery pack4
		Cancel

Figure 11 Battery info page

8、 Self-consumption

In the "Battery Info" item, you can view the "Self-consumption rate" and "Self-supply rate", as shown inFigure 12.





9、Work mode

In the "Work mode" item, you can select work mode and in details you can view the introduction of work mode, as shown in Figure13

	Work mode Self-Consumption >	Self-Consumption	Self-Consumption In this mode, the PV generated energy is supplied
0.2	More	Backup	to load, and the remainder power is used to charge battery or supply to grid.
501523003780P2100013 iStoragE2A 12000		Time of use	Backup In this mode, the PV generation is supplied to battery, and the remainder power is supplied to
Generation statistics		Energy scheduling	met, the energy will be supplied by grid.
Battery info 57.9% Self-consumptio n 45.08%			Time of use In this mode, the self-generation and self-consumption strategy is used during peak pellice, and the bit of postery does during during others hours, and the energy consumption during others hours, and the energy consumption demand is met by PV generated and grid.
Work mode Anti-backflow function			Energy scheduling In this mode, the battery is charged at full power during charing time, discharged at full power during discharget during other period.
Battery protection			

Figure 13 Work mode page

9.1 "Time of use" function setting

Step 1:Enter the working mode and select "Time of use";

Step 2: Turn off "Fully to grid"; (When the function is enabled, if the device stays in time of use mode and in the peaking time, it will support the energy of max power to load and grid.)

Step 3: Select "Workday" or "Weekend" and set "Peak Period" and "Vally Period";

<	Running mode	
	Self-Consumption	
	Backup	
A	Time of use	0
	Energy scheduling	
Fully	y to grid	•
Time	of use period	end
0 2	4 6 8 10 12 14 16 18	20 22 24
		-
Peri	iod 1	☆ ⊕
Peri	iod 1 19:50 ~ 19:54	₫ ⊕
Peri	iod 1 19:50 ~ 19:54 Peak	i ⊕) Valley
Peri	iod 1 19:50 ~ 19:54 Peak	tii ⊕ Valley
Peri	iod 1 19:50 ~ 19:54 Peak iod 2 19:57 ~ 20:01	 Image: Image: Im
Peri	iod 1 19:50 ~ 19:54 Peak iod 2 19:57 ~ 20:01 Peak	 Image: Image: Im
Peri	iod 1 19:50 ~ 19:54 Peak iod 2 19:57 ~ 20:01 Peak +	iii ⊕ Valley iii ⊕ Valley

Figure 14 "Time of use" page

9.2 "Energy Scheduling" function setting

Step 1:Enter the working mode and select "Energy Scheduling";

Step 2: Select "Workday" or "Weekend" and set "Charge Period" and "Discharge Period";

14:54		all 5G 💽
< F	lunning mode	
() Self-Con	sumption	
Backup		
A Time of u	ise	
Energy s	cheduling	0
Energy sched	uling period	
Workday	∕ I v	Veekend
Period 1		₫ ⊕
20:1	5 ~ 20	0:16
	Charge	Discharge
Period 2		₫ ⊕
20:18	3 ~ 20):19
20:18	B ~ 20 Charge	Discharge
20:18	B ~ 20 Charge	Discharge

Figure 15 "Energy Scheduling" page

9.3 "Enable power limit from grid" function setting

Step 1:Enter the working mode and select "More"; Step 2:Select the "Enable power limit from grid"; Step 3:Enable the "Enable power limit from grid"; Step 4:Enter the "Allow gird charge power".

< Work mode	< Work mode	< Energy from grid	
Work mode Self-Consumption >	Enable power limit from grid Disable >	Enable power limit from grid	
More	External control mode Enable >	Allow grid charge power 12000w	

Figure 16 "Enable power limit from grid" setting page

9.4 "External control mode" function setting

Step 1:Enter the working mode and select "More";

Step 2:Select the "External control mode";

Step 3:Enable the "External control mode";

Step 4:Set specific information;

After setting, when the device stays incorresponding time, it will perform corresponding action.

< Work mode	< Work mode	16:25 10 \$ 10 1 ³ ₂₀ ".al ⁸ .al ¹⁰
		< External control
Work mode Self-Consumption >	Enable power limit from grid Disable >	Battery Grid
More	External control mode	Active power mode Scheduling by SI >
		Active power (SI)
		300w
		External control period
		Workday Weekend
		0 2 4 6 8 10 12 14 16 18 20 22 24
		Period1 🕮 🕀
		00:00 ~ 23:59
		Save

Figure 17 "External control mode" setting page

10、 Anti-backflow function

In the "Anti-backflow function" item, you can set the type of anti-backflow, as shown in Firuge18

11	< Anti-backflow	< Anti-backflow
0.2 _{kw}	Anti-backflow function Disable >	Anti-backflow function Disable >
501523003780P2100013 iStoragE2A 12000		
Generation statistics 67.4 _{kWh}		
Battery info 57.9% Self-consumptio n 45.08%		
Work mode Anti-backflow function		Disable
Battery protection		Single phase anti-backflow Total power anti-backflow
		Cancel

Figure 18 Anti-backflow function page

11、 Battery protection

In the "Battery protection" item, you can set charge ending SOC and discharge ending SOC, as shown in Firuge19

€ 0.2kw	< Battery protection SOC threshold of charge ending (%) 100.0
501523003780P2100013 iStoragE2A 12000	SOC threshold of discharge ending (%) 30.0
Generation statistics 67.4kwh	
Battery info 57.9% Self-consumptio n 45.08%	
Work mode Anti-backflow function	
Battery protection	

Figure 19 Battery protection page