YIY APP User manual

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1 产品简介Product Introduction

1.1 产品名称Name

储能分体系统、储能一体机系统移动端应用(APP) DIY system and ALL-IN-ONE system(ESS) APP

1.2 产品背景Background

通过云端技术,实现能源系统的智能化,通过远程查看当前系统的运行状态、系统的历史记录及报警状态

Through Cloud technology, the intelligent energy system can be realized, and the current system operation status, historical record and alarm status can be viewed remotely

1.3 产品系统图System diagram



系统配置 System configuration: Solar controller (2) +Inverter+Lithium battery pack(10MAX)+CIMC module+WIFI module ① 太阳能板 Solar panel ② AC 负载 AC load ③ 电网 Grid ④ 发电机 Generator (5) MPPT solar charger controller ⑥ 逆变器 Inverter ⑦ 锂电池包 Lithium battery pack ⑧ CIMC 中集模块 CIMC module ⑨ WIFI 模块 WIFI module 10 APP Interface ① Cable for MPPT to CIMC module 12 Cable for Inverter to CIMC module (13) Cables for battery parallel connection (14) Cable for battery pack to CIMC module 15 Battery pack /CAN cable (PC) 16 Cable for CIMC module to WIFI

module

1.3.1 分体系统展示图 DIY system display drawing

分体系统方案 DIY system scheme 2

System configuration: Solar controller (4) +Inverter+Lithium battery pack(10MAX)+LCD module+WIFI module



1.3.2 一体机系统图 ALL-IN-ONE system(ESS) display drawing



System configuration: ALL-IN-ONE system(ESS) +WIFI module

1.3.3 系统说明 System description

WIFI 模块通过手机 APP 进行配网连接到本地网络(无线热点),配网成功,WIFI 模块自动连接到云服务器, APP 通过添加设备(WIFI 模块 MAC 地址)将系统连接到服务器,系统每隔十分钟将运行数据通过 WIFI 模块上传到服务器,手机 APP 收取服务器上关于系统的数据并展示

WiFi module connects the distribution network to the local network (wireless hot spot) through mobile app. If the distribution network connection is finished, WiFi module is automatically connected to the Cloud server. App connects the system to the server by adding devices (WiFi module MAC address). The system uploads the running data to the server through WiFi module every 10 minutes. The mobile app receives the data about the system on the server and show it on the interface.

WIFI module picture and instruction



CIMC module and wiring instruction





MPPT1&2 Comm: RJ45 blue 1.5M 8P network cable is adopted to connect with MPPT solar charger Remote Comm

INV Comm: RJ45 blue 1M 8P network cable is adopted to connect with inverter LCD Remote Port BATT Comm: RJ11 blue 4M 8P network cable is adopted to connect with battery pack RJ45 Comm WIFI Comm: RJ45 blue 10M 8P network cable is adpoted with WIFI module RJ45 Comm DC In5V/1A: Backup 5VDC power interface

LCD module、 Wiring and display instruction



MPPT1&2 Comm: RJ45 blue 1.5M 8P network cable is adopted to connect with MPPT solar charger Remote Comm

INV Comm: RJ45 blue 1M 8P network cable is adopted to connect with inverter LCD Remote Port BATT Comm: RJ11 blue 4M 8P network cable is adopted to connect with battery pack RJ45 Comm WIFI Comm: RJ45 blue 10M 8P network cable is adpoted with WIFI module RJ45 Comm DC In5V/1A: Backup 5VDC power interface

1.4 LCD display module introduction

The LCD display system working information on the front of cabinet



1.4.1 Function description



ltem	Name	Description
1 INV power switch		Power saver auto: inverter work in saver mode
	INV power switch	Inverter OFF: inverter power off
		Inverter ON: inverter work in normal mode

		CHG: inverter working in battery charge mode	
2	Inverter indicator LED	INV: inverter working in battery discharge mode	
		Alarm: inverter warning or fault	
3	LCD Screen	Show the system working information	
		RUN: battery working normal	
4	Battery indicator LED	Alarm: battery warning or fault	
		Display ON/OFF	
	Button SYS	Press button, LCD will show ESS info directly	
5	Button BATT	Press button, LCD will show BATT info directly	
	Button INV	Press button, LCD will show INV info directly	
	Button MPPT	Press button, LCD will show MPPT info directly	



Note:

- 1. The connector of Inverter port is RJ45 type, connector of Battery is RJ11 type, never insert the wrong position or damage will happen and invalid warranty.
- 2. DISPLAY ON/OFF: touch any button will lighting the LCD, keep press the button, the current screen will hold for checking current module information

1.4.2 Display introduction

ESS INFO display

	ESS	info		
Charging-P: 12	6 W	BAT-V:	53.36	V
Energy-h: 0.078	kWh	Tol BAT-	C: 10	00 Ah
Energy-D: 0.37	7 kWh	Rem BA	T-C:	76 Ah
Energy-Tol:	2 kWh	Dis-Time	e:	h
AC Load:	0 W	Chg-Tim	ie:	h
MPPT-Sta:00	INV-Sta:	00 Ba	t-Sta: 0	00

Charging-Power	MPPT charging power total			
Energy-hour	Solar generator energy in current hour			
Energy-Day	Solar generator energy today			
Energy-Total	Solar generator energy total			
AC Load	Current AC loads power inverter take			
BAT-Voltage	System battery voltage			
Total Bat capacity	System rated battery capacity in total			
Remain Bat capacity	System remain battery capacity in total			
Discharge-Time	System estimated time to discharge battery empty in current condition			
Charge- Time	System estimated time to charging battery full in current condition			
MPPT-Status	All MPPT working status in system			
	00: normal 01: warning occur 02: fault occur			
Inverter-Status	Inverter working status in system			
	00: normal 01: warning occur 02: fault occur			
Pattony Status	All Battery working status in system			
Dallery-Status	00: normal 01: warning occur 02: fault occur			

BATTERY PACK display

ID: 0	BATTERY	í info	Tol-B: 1
Battery V: 53.3	2 V	Rated Cap:	100.0 AH
CURRENT: 0.4	7 A	Current Cap	: 75.9 AH
CHG time:	h	Current SO	C: 75.9 %
DIS time: 160	.8 h	Cycle times	: 2
alarm Status: (0000	OVP times:	0
OCP times:	0	OTP times:	1

first battery info window

Total-battery pack	Total battery packs in system
Battery V:	Current ID battery voltage
Rated Cap:	Battery rated capacity of current ID
Current I:	Positive means charge, Negative means discharge
Current Cap:	Remain capacity of current ID battery
CHG time:	Estimated time to charging battery full
Current SOC:	Remain SOC of current ID battery
DIS time:	Estimated time to discharge battery empty
Cycle times:	Battery cycle times of current ID
ID:	Current battery identity number
Alarm status:	Ref the battery pack alarm code table
OVP times	Number of battery voltage alarm times
OCP times	Number of battery current alarm times
OTP times	Number of battery temperature alarm times

Battery pack alarm code table

0000	normal
0100	Cell Over-voltage Warning
0200	Cell Over-voltage Protection
0400	Cell Low-voltage Warning

0800	Cell Low-voltage Protection
0010	Cell Over-temp Warning
0020	Cell Over-temp Protection
0040	Cell Low-temp Warning
0080	Cell Low-temp Protection
0001	Discharge Over-current Warning
0002	Discharge Over-current Protection
0004	Charge Over-current Warning
0008	Charge Over-current Protection

ID:0 Cell Details(uint: mV / °C)

C1: 3314	C5: 3316	C9: 3311	C13: 3317
C2: 3318	C6: 3320	C10: 3311	C14: 3314
C3: 3318	C7: 3313	C11: 3312	C15: 3310
C4: 3321	C8: 3314	C12: 3311	C16: 3324
T1: 30.8	T2: 29.7	T3: 29.2	T4:28.9
MaxV: 3324	MinV: 331	0 MaxT: 30.8	MinT: 28.9

second battery info window

ID	Current battery identity number	
C1——C16	Internal cells voltage	
T1T4	Internal temperature detecting value	
Max V	Maximum cell voltage	
Min V	Minimum cell voltage	
Max T	Maximum internal temperature detecting value	
Min T	Minimum internal temperature detecting value	

INVERTER INFO display



Rated-Power	Inverter rated power
Input AC	Current utility or generator AC voltage
Output AC	Inverter output AC voltage
Batt DC	Current battery voltage
Output Freq	Inverter output AC frequency
Output Load	Current AC loads percentage inverter take
Work mode	Charging or Inverter
Mode Transfer times	Inverter working mode transfer times
Alarm	Ref inverter 3.3.9
Fault	Ref inverter 3.3.9



MPPT INFO display

ID: 1	MPPT	info			
PV Input Voltage	: 75.3	V			
Charging Curren	t: 2.38	A			
Charging Power:	126	W			
Charge Voltage:	53.29	V			
Unit HS Temperature: 35 C					
Warning:00	fault:00	F-times: 0			

ID	Current MPPT identity number
PV Input Voltage	Current MPPT PV input voltage
Charging Current	Current MPPT charging current
Charging Power	Current MPPT charging power
Charge Voltage	Current MPPT charging voltage
Unit HS Temperature	Current MPPT internal temperature
Warning code	Ref MPPT 3.1.3
Fault code	Ref MPPT 3.1.3
Fault times	Current MPPT occurs fault times





外置 5V 电源模块及说明 External 5V power supply module and description



2 APP Instruction

2.1 Download and installation

YIY APP can be download and installed through visitingwww.yiyuan.com

Android phone users can search "YIY" through major android application market to download and install.(Domestic: 腾讯应用宝、华为应用市场 Overseas: GooglePlay)

IOS phone users can search "YIY" through Appstore to download and install.

2.2 APP启动运行APP operation

用户在安装完毕后,点击桌面 YIY 启动,图片 After the installation, click YIY on the desktop to start



说明: 苹果手机支持 IOS7 及以上操作系统; Android 支持 4.0 及以上的操作系统 Mark: Iphone supports IOS 7 and above operating system; Android supports 4.0 and above operating system

2.3 用户注册及登录

用户第一次使用的时候,通过以下步骤进行注册:点击桌面图标——注册——输入相关信息 When users use the APP for the first time, register by following steps: Click icon on desktop—— Register——enter relevant information



 Register and login in
 Register:
 According to the information on the page, select the country, enter the user name, password, mobile phone number and email information, etc
 Submit, register successfully

2.4设备配网及注册 Device distribution network and registration

2.4.1 手机连接本地 Wi-Fi 网络 Mobile phone connected to local wifi



2.4.2 将 WiFi 模块连接至本地无线网(配网)Connect WiFi module to local WIFI network (distribution network)

(Mark:由于无线网信号原因,配网地点最好选择 WiFi 热点半径 3 米以内; 配网成功后可根据 WiFi

信号的强弱选择适当的地点安装 WiFi 模块 Due to the wireless network signal, the best distribution

network location is that WiFi hot spot radius should be within 3 meters; after the distribution network is successful, the appropriate location can be selected according to the strength of WiFi signal to install WiFi module)





下午2:25 〇 David ① 政命列表 ② 政命列表 ③ 政命和两 ② 政命和两 ② 波命和两	配网界面提示"已发送", WIFI 模块"Server"灯常亮, 说明 WIFI 模块已成功连 接到本地 WIFI 网络。 When distribution network page shows "sent"and the wifi module "server" light is on, so your Wi-Fi module connection is complete.
正式 正式 ● ● <	2.5 添加设备Add Device Please enter the APP, and Click "mine"-"device list"-"Add device"
 System name: Please enter system name Installation date: Select the i System address From map China City Please enter the full address Longitude Latitude Time zone: Please enter the time zone 	设备序列号:输入WIFI模块侧面MAC地址号(如: 8c59dcf00001);设备密码:输入MAC号前6位(如: 8c59dc);点击"查询设备",录入相关信息后,点击 "添加设备" serial number: enter MAC address on the side of Wi-Fi module (ex:8c59dcf00001) Device password:MAC address top six number(ex:8c59dc) click "query device" and enter relevant information. Click"Add Device"
 * Solar power(KW): * Inverter power(KW): * Battery capacity(Ah): 	

< Add device	录入相关信息
Adding a device must first query the device information, to therwise it is not allowed to be entered	
* WIFI s/n: Please enter s/n	MAC 地址 MAC address
* WIFI password: Please enter password Query device	MAC 地址前 6 位 your MAC address top six number
* System name: Please enter system name	▲ 电站名称、公司名称、小区名称 Power station name.company name.community name.
* Installation date: Select the installation date	安装日期
System address	Installation date
* From map	
	安装地理位置
China 🗸 City	Installation
Please enter the full address	address
Longitude Latitude	
* Time zone: Please enter the time zone	located country or time zone
* Solar power(KW):	大阳能光伏板总功率 Total solar power
* Inverter power(KW):	
* Battery capacity(Ah):	
* System type	电池包总容量 Battery capacity
ESS cabinet ESS separate LFP pack	
MPPT Inverter Three pnase	上 选择设备种类 select the system model
* Mode name:	
* S/N:	
* Inverter mode name:	
* Inverter S/N.	SE0332011100227 产品序列号
* LFP S/N: 产品标贴	9000-5111/730-50246-00
* MPPT mode name: label	cell:201009 L E50-LIV46 产品型号
* MPPT S/N:	System type
Other:	model
Remark:	
* System picture: +	上传安装图片 upload photoes of
ADD Device	点击添加设备 click "Add Device"

2.6 APP Energy



Click the blue area to enter the controller page to view the real-time data of up to 4 controllers



MPPT Current Data









2.7 APP Energy Page



2.8 "我的"页面My Page



2.9 设备列表Device List

