

User manual



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Table of Contents

1. Introduction	4
2. Safety Warning	4
3. Function interface description	4
4. Installation the tool	5
5. Mounting the PACK	6
6. Parallel machine connection	9
7. LCD screen display	10
8. Connection mode for communication	11
9. RS485/CAN Interface definition	11
10. Parallel interface	12
11. BMS RS232 communication instructions	12
12. Dip switch	19
13. Host computer communicationa ddress code setting	20

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1. Introduction

The Energy storage pack is an essential component of the photovoltaic power generation system. It can provide electricity for the connected load, and it can also store photovoltaic solar modules, fuel generators, or wind energy generators by charging the remaining energy in case of emergency. When the sun goes down, energy demand is high, or there is a power outage, you can use the energy stored in the system to meet your energy needs at no additional cost. In addition, the energy storage Pack can help you achieve energy self-consumption and ultimately achieve the goal of energy independence.

According to different power conditions, the energy storage PACK can output power during peak power consumption, and can also store energy during low power consumption. Therefore, when connecting the matching photovoltaic modules or inverter arrays, external equipment is required to match the energy storage the working parameters of the pack to achieve the highest operating efficiency. For a simple diagram of a typical energy storage system.



2. Safety Warning

It is very important and necessary to read the user manual carefully before

Installing or using the battery. Failure to follow any of the instructions or warnings in this document can result in electrical shock, serious injury, death, or may damage the battery and the whole system.

• If the battery is stored for a long time, it is requirement that they are charged every three to six months, and the SOC should be no less than 80%, after fully discharging, The battery needs to be recharged within 12 hours.

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PKNERGY Energy Storage System

- •Do not expose cable outside;Do not use cleaning solvents to clean the battery.
- •All battery terminals must be disconnected before maintenance.
- •Do not expose the battery to flammable or harsh chemicals or vapors.
- •Do not paint any part of the battery, include any internal or external components.
- •Do not connect battery with PV solar wiring directly.
- •Any foreign object is prohibited to be inserted into any part of the battery.

•After unpacking, please check the battery and pack list first, if the battery is damaged or spare parts are missing, Please contact the dealer.

•Before installation, be sure to cut off the grid power and make sure the battery is in the turned-off mode;

•Wiring must be correct, do not mix-connect the positive and negative cables, and ensure no short circuit with the external device;

- •It is prohibited to connect the battery with AC power directly;
- •The BMS in the battery is designed for 24VDC/48VDC, DO NOT connect battery in series;
- •It is prohibited to connect the battery with different type of battery;
- •Please ensure the electrical parameters of battery system are compatible to inverter;
- •Keep the battery away from fire or water.

•Our company will not bear any warranty claims for direct or indirect damage caused by violation of the above items.

No.	Description	Silk-screen	
1	Output terminal	+	
2	Output terminal	-	
3	Circuit breaker switch	ON/OFF	
4	LCD	MEUN/Enter/UP/ESC	
5	Reset button	RST	
6	Dial switch	ADS	Ū
7	Dry port	DRY CONTACT	1 5
8	RS485A Port	RS485A	
9	CAN bus Port	CAN	
10	RS232 Port	RS232	🛛 🛛 🖾
11	RS485B Port	RS485B/RS485B	3
12	E-Switch	ON/OFF	Įθ
13	LED indicate	RUN/ALM/CAPACITY	

3. Function interface description



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4. Installation the tool

Personal protective equipment:



Necessary installation tools



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5. Mounting the PACK

Material preparation:









Output line

Screw

Parallel communication

lineInverter communication line





Step 1:

Choose suitable firm wall with thickness greater than 100mm.

Use the mounting frame as a template, mark the hole position.

Drill 8 holes according to the hole position, it is ø10 with depth 80mm.

Hammer the M10 screws to the above holes, and screw the nut.

Raise the battery to slightly above the hook, while maintaining the battery balance.

Secure the battery to the wall through a hook.



A falling device can cause serious or even fatal damage: never install the battery on the hook screw unless you ensure that the hook screws are firmly installed on the wall and after a thorough inspection.

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Step 2:

Parallel use of battery:

When the battery needs to be used in parallel, the maximum connection is 16 units, but we recommend using 2-4 units according to the application, please select the appropriate accessories:

The positive/negative electrode of each battery is directly converging at the battery input end of the inverter.

The two batteries should be connected in parallel first. The battery near the inverter is the main output and connected to the battery input terminal of the inverter. The wire required for the confluence is not included in the standard package.



More than 3 batteries in parallel require the use of an additional bus box not included in the standard package:



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Step 3: The battery is connected to the inverter



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6. LED working status

SYS status	Abnormal event	ON/ OFF	RUN	ALM	Capacity LED						Description	
							٠			۲		
Shutdown	Dormancy	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	/	
Standby	Normal	ON	Flash 1	ON	Accord	lina to r	ranacit	v indica	ator		Dormancy	
Clanuby	Warning	ON	Flash 1	Flash 3			Sapaci	y maioe			Module low voltage	
	Normal	ON	ON	OFF	Accord	ling to t	he higi	nest ca	pacity		AI M does not flicker	
Chargo	Warning	ON	ON	Flash 3	indicat	or LED	flashe	s 2				
	Over Voltage Protection	ON	ON	OFF	ON	ON	ON	ON	ON	ON	There is no mains power, and the indicator turns to standby	
	Over current Temperature Protection	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	Stop charging	
	Normal	ON	Flash 3	OFF	According to consolity indicator						/	
	Warning	ON	Flash 3	Flash 3				,			/	
Discharge	Under Voltage Protection	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Stop discharging	
	Over current Short circuit Temperature Reverse connection Protection	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	Stop discharging	

Flash mode	ON	OFF
Flash1	0.25s	3.75s
Flash2	0.5s	0.5s
Flash3	0.5s	1.5s

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7. LCD screen display

① Display rendering



② Main menu page

After BMS is activated, will show the welcome screen, press the "MENU" button to enter the main menu page. As shown in the figure below:

Welcome To Use	≫Analog Info≫
Smart BMS	BMS Status≫
Press MENU Key	Para Setting≫ Sys Setting≫

③ Battery parameters page

When the cursor" » "is point to "Battery Parameters Acquisition" press "ENTER" key will enter the page of "Battery Parameters Acquisition" As shown in the figure below:

<pre>> PackV: 53.22 V Im: 0.00 A Temperature > Cell Voltage ></pre>	T1: 26.1℃ T2: 26.2℃ T3: 26.6℃ T4: 26.2℃	PCB_T: 27.4°C ENV_T: 27.4°C
Cell01: 3333 mV Cell02: 3333 mV Cell03: 3331 mV Cell04: 3329 mV	≫CellCapacity≫	SOC: 0.00 % FCC: 50.0AH Rm : 0.0AH CC : 0

When the cursor "» "is point to"Battery Status" press "ENTER" key will enter the page of "Battery Status", As shown in the figure below:

≫ Status: Idle Record≫ BMS Status≫	≫ OVP: 0	> UV : N UVP: N OC: N OCP: N
<pre> > SCP: 00/UTP: 00CP: 0UVP: 7 </pre>	≫SCP: N Failure: N	≫ OT : N OTP: N OV: N OVP: N
Non-production manufacturer can not use,	Baud rate:9600	

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Parameter Settings

Screen can not set parameters Baud Rate:9600 ,Can not be set.

Key description

①SW1----MENU,SW2----ENTER,SW3----UP,SW4----DOWN, SW5----ESC.

②Each item is "》"or"--"as a beginning, among them"》"shows the current cursor position, press "UP" or

"DOWN" key can move the cursor position; with" "end of the project, the content of the said project has not shown, press "ENTER" key can enter the corresponding page

corresponding page.

③Press "ESC" key can be returned at the next higher level directory; In any position, press" MENU" key can return to the main menu page.

④when BMS inter sleep mode, press any key, can activate the screen.

Inter standby mode , with no keystrokes 1 minutes later, LCD will enter Shutdown mode press any key, screen can be activated.

8. Connection mode for communication

RS485 interface for communication with upper computer; With CAN interface, CAN carry out multi-machine parallel communication.(RS485 baud rate 19200, CAN baud rate 500K)

When the host (the dialing address 1, 2, 3 and is OFF) CAN communicates only with the inverter, when

the code 6 is on, it can support the pylontech protocol, the code 5 and 6 are on, it supports the Guerrero watt protocol.

9. RS485/CAN Interface definition



RS485 and CAN

RS485	(8P8C)	CAN(8P8C)					
DJ45	illustrate	DJ45	illustrate				
1、8	RS485-B	9、10、11、14、16	NC				
2、7	RS485-A	12	CANL				
3、6	GND	13	CANH				
4、5	NC	15	GND				

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10. Parallel interface

BMS battery packs communicate in parallel via RS485 bus, and can also communicate with devices with RS485 bus, while RS232 interface realizes communication with PC or other intelligent terminals, human-computer interaction RS485 bus parallel connection of any battery pack information, multi-machine parallel bus interface See the figure



11. BMS RS232 communication instructions

The BMS can communicate with the host computer through the RS232 interface, so that the host computer can monitor and set various information of the battery, including battery voltage, current, temperature, status and battery production information, etc., and the default baud rate is 9600bps. Operation instructions:

- 11.1 Accessories
- 11.2 Accessories introduced
- 11.3 Fitting installation steps
- 11.4 BMS software installation steps
- 11.5 Introduction to the functions of the host computer
- 11.6 Debugging steps of the host computer
- 11.7 Other settings

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11.1 Accessories



USB to RJ12 crystal head



Computer (upper computer)



RJ12 The order of the lines:

RS232 (RJ12 6P6C)							
RJ12							
1、5、6	NC						
2	GND						
3	RX						
4	TX						

Where to buy: Brand: DTECH

(https://item.m.jd.com/product/100056943642.html?utm_source=iosapp&utm_medium=appshare&utm_campaign=t_335139774&utm_term=CopyURL&ad_od=share&gx=RnAonS8DazLah8IR 5Q&gxd=RnAoy29eOzbfn8pDqYRzDLdkRBFs44NA603gijT5SyWCqjx-no1rDykVnXRAWV8)

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11.3 Fitting installation steps

* The USB to RJ12 crystal head cable is integrated, and you only need to communicate with the seller about the RJ12 wiring sequence.

* After the USB is connected to the computer, the program will be installed automatically, and it will be displayed in My Computer - Device Manager-Ports:Prolific PL2303GC USB Serial COM Port (COM**). * COM**:It will be automatically sorted according to the number of USB installations on my computer.



Plug in the USB port of your computer



RJ12 is connected to the battery RS232



Automatic installer



Battery DIP setting: 1: NO, 2: OFF, 3: OFF, 4: OFF

11.4 BMS software installation steps



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Host computer program software

Installation Steps:

①unpack 解压到当前文件夹(X)
 ②Double-click the application



③Start the program (No login required):



- 11.5 Introduction to the functions of the host computer
- ① Realtime Monitoring
- 2 Mu1ti Monitoring
- ③ Memory Info.
- ④ Parameter Setting
- ⑤ System Config
- 6 Export Datas

11.6 Debugging steps of the host computer

① Modify the language



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alt	ime No	nitorin	g Mult	i H	onitoring	Memo	ry Info	5. F	aramet	er S	Settir	ng	System	Config.	Export	: Datas
L	2	3	4	5	6	7	8	9	10	1	11	12	13	14	15	Serial Port
6	17	18	19	20	21	22	23	24	25	2	26	27	28	29	30	Port COM6 Baud Rate 9600 Auto
ick	Inform	nation				Tem	perature	e								Pack 1 V Pack Qty 1 Close
	Pack V	Voltage	52.65	5	¥											ADDR 1 Interval (S I Try
	Pack (Current	0.00		A		Tcell 1		25.6	C	Tcell	2	25.9	C		
		SOC	40		\$											
		SOH	100		\$		Tcell 3		26.0	C	Tcell	4	25.4	C		
1	RemainCa	apacity	4088)	mAH											System Status
	FullCa	apacity	10128	0	HÂÆ		MOS_T		27.4	C	ENV	_T	27.0	C		●CHARGING-ON ●CHARGING ●CHG-LIMIT-OFF ●ACin
	Battery	Cycle	3													●DISCHARGING-ON ●DISCHARGING ●HEATER-OFF ●Fully
ell \	/oltage	(mV)														Alarm Status
		MaxVol	t 1	3	3291	MinV	olt 7		3290		Volt	Diff	1			aone
					201									-		Protect Status
		Vce			201			V)	cell 9		3291	_				Fault Status
		Vce		3.	291			Ve	e11 10 [1	3291	_				None
		Vce	11 3	33	291			Vc	ell 11		3291					Switch Control
		Vce	11 4	3	291			Vc	ell 12		3291					CHG Circuit Close Sound Alarm Open
		Vce	11 5	3	291			Vc	ell 13		3291					DSG Circuit Close LED Alarm Close Shutdown Off
		Vce	11 6	3	291			Vc	ell 14 [3291					
		Vce	11 7	33	290			Vc	ell 15 [3291					Password Change Clear
		Vee	11 0	3	291			v.	11 16		3291	-				

② Set up Port (Click Try to automatically query COM**)

Serial Port						
	Port	COM6	×	Baud Rate	9600 ~	Auto
	Pack	1	~	Pack Qty	1	Close
	ADDR	1		Interval(S)	1 ~	Тгу

③ Set up Baud Rate (Set 9600)



- ④ Set up Try (Nothing else is required)
- ⑤ The state after the communication (At the very bottom)

VER: P16S100A-21234-1.05 BMS S/N: 212341124700266H PACK S/N: HC3GA0	8231010001 COMM: Normal
---	-------------------------

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⑥ Click Parameter Setting

Cell OV Alarm(V)	~	Pack OV Alarm(V)	~	Cell UV Alarm(V)	~	Pack UV Alarm(V)	
Cell OV Protect(V)	~	Pack OV Protect(V)	~	Cell UV Protect(V)	~	Pack UV Protect(V)	
Cell OVP Release(V)	~	Pack OVP Release(V)	~	Cell UVP Release(V)	~	Pack UVP Release(V)	
Cell OVP Delay Time(mS)	~	Pack OVP Delay Time(mS)	~	Cell UVP Delay Time(mS)	×	Pack UVP Delay Time(mS)	
CHG OC Alarm(A)	~	CHG OT Alarm('C)	~	CHG UT Alarm("C)	~	MOS OT Alarm('C)	
CHG OC Frotect(A)	~	CHG OT Protect(°C)	~	CHG UT Protect("C)	~	MOS OT Protect("C)	
CHG OCP Delay Time(mS)	~	CHG OTP Release('C)	~	CHG UTP Release("C)	~	MOS OTP Release("C)	
DSG OC Alarm(A)		DSG OT Alarm ('C)	~ ·	DSG UT Alarm("C)	~	ENV UT Alars ('C)	
DSG OC 1 Protect(A)		DSG OTP Release("C)		BSG VI Protect(°C)	~	ENV UT Protect("C)	
DSG OCP 1 Delay Time(mS)	~	Balance Threshold(V)		DSG UTP Release("C)	~	ENV UTP Release("C)	
DSG OC 2 Protect(A)	~	Balance AVcell(mV)		Pack FullCharge Voltage(V)	~	ENV OT Alarm('C)	
DSG OCP 2 Delay Time(mS)	~	Sleep Vcell(V)	~	Pack FullCharge Current(mA)	~	ENV OT Protect("C)	
SCP Delay Time(uS)	~	Delay Time(min)	~	SOC Low Alarm(%)	~	ENV OTP Release("C)	
Read	All	CLS MINING	II Recet	Setting	Export		

⑦ Click Read All

PbmsTools HS1.0.9 (Protocol	code:HS-PACE-232	2-BP-V1.1)					- 0)
altime Monitoring Multi	Monitoring M	emory Info. Parameter Set	ting System C	onfig. Export Datas		Sæ	·, 🍨 🖿 ¥
Cell OV Alarm(V)	3.60 ∨	Pack OV Alarm(V)	57.60 🗸	Cell UV Alarm(V)	2.80 🗸	Pack UV Alarm(V)	44.80
Cell OV Protect(V)	3.65 v	Fack OV Protect(V)	59.20 v	Cell UV Protect(V)	2.70 🗸	Pack UV Protect(V)	43.20
Cell OVP Release(V)	3.38 🗸	Pack OVP Release(V)	54.00 🗸	Cell UVP Release(V)	2.95 🗸	Pack UVP Release(V)	47.20
Cell OVP Delay Time(mS)	1000 ~	Pack OVP Delay Time(mS)	1000 🗸	Cell UVP Delay Time(mS)	1000 🗸	Fack UVP Delay Time(mS)	1000
CHG OC Alarm(A)	105 🗸	CHG OT Alarm('C)	60 🔍	CHG UT Alarm('C)	0 ~	MOS OT Alara ("C)	90
CHG OC Protect(A)	110 🗸	CHG OT Protect("C)	65 ~	CHG UT Protect("C)	-5 ~	MOS OT Protect("C)	115
CHG OCP Delay Time(mS)	1000 ~	CHG OTP Release("C)	55 ~	CHG UTP Release("C)	0 ~	MOS OTP Release("C)	85
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		DSG OT Alarm("C)	65 v	DSG IIT Alara ('C.)	-15 ~		
DSG OC Alarn(A)	105 ~	DSG OT Protect("C)	70 🗸			ENV UT Alarm ('C)	-15
DSG OC 1 Protect(A)	110 🗸	DSG OTP Release(°C)	60 ~	DSG UT Protect(C)	-20 🗸	ENV UT Protect("C)	-20
DSG OCP 1 Delay Time(mS)	1000 👳	Balance Threshold(V)	3.50 🗸	DSG UTP Release("C)	-15 ~	ENV UTP Release("C)	-15
DSG OC 2 Protect(A)	150 ~	Balance $\Delta Vcell(nV)$	30 🗸	Pack FullCharge Voltage(V)	56.00 v	ENV OT Alarm ('C)	65
DSG OCP 2 Delay Time(nS)	100 🗸	Sleep Vcell(V)	3.15 🗸	Pack FullCharge Current(mA)	2000 🧹	ENV OT Protect("C)	75
SCP Delay Time(uS)	300 🗸	Delay Time(min)	5 v	SOC Low Alarm(%)	5 v	ENV OTP Release("C)	65

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⑧ Click What needs to be modified

Cell OV Alarm(V)	3.55 🗸
Cell OV Protect(V)	3.60 ~
Cell OVP Release(V)	3.38 🗸
Cell OVP Delay Time(mS)	1000 ~

9 Click Write All



10 Complete the setup

11.7 Other settings System Config:

ealtime Monitoring Multi Monitoring Memory Info. Par	Setting System Config. Export Datas 🛛 🍯 🛱 😘 🌵 📟 👕
Voltage(mV)	Capacity(mAH)
Vref Calibration	DesignCapacity
Pack Voltage Calibration	RemainCapacity
Current(mA)	FullCapacity
CHC Current Calibration Re	Read Write
Zero Current Calibration Re	Battery Cycle Setting
DSG Current (1000-60000mA) Calibration Re	Battery Cycle 0 🗘 Setting
Cell Number Setting	Inverter protocol
Cell Number V Setting	密码:
	CAN Protocol 🗸
Cho current setting	RS485 Protocol 🗸
Start Current(A) - Setting R	Туре
	Read Write
Gap Charge Setting	
Gap Charge Threshold 🛛 😔 Set	
	□ Clear text box after writing
	□ no-repeat BMS S/N 20 ~ Write
	14:20:3

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① Inverter protocol:

	密码:		
CAN P	rotocol	PYLON_CAN (德业_CAN)	Ŷ
RS485 P	rotocol	PYLON_485(德业_485)	~
	Type	Manual	v

② Inverter protocol selection:

Inverter protocol			
	密码:]
CAN	Protocol	PYLON_CAN(德业_CAN)	~
RS485	Protocol	PACE CAN	
	Туре	PYLON CAN (18:12 CAN) GROWATT_CAN Victron_CAN SE_CAN HB9E2_CAN SPD CAN	
Manufacture Informa	ation	SMA_CAN GOODWE_CAN	
🗌 Clear text box aft	er writin	Studer_CAN Sofar_CAN PV_CAN	
no-repeat BM	IS S/N	JL_CAN TBB_CAN	20 ~
		Intro_ond	

③ Click Read The setup is complete.

12. Dip switch

Switch setting

In the multi-machine parallel communication operation, you need to configure the DIP address of each

ON

PACK first. The DIP code adopts the BCD code format, the address of 0 is defined as (black dot is OFF state, blank is ON state, thesa me below),

address 1 address 2 address 2 address 2

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Slave Setting (Tablel)

AddrDIP switch positionDescription 4 1 1 2 1 3 4 4 0 OFFOFFOFFOFFPackO 1 ONOFFOFFOFFPack1 2 OFFONOFFOFFPack2 3 ONONOFFOFFPack3 4 OFFOFFOFFPack4 5 ONOFFONOFF 6 OFFONONOFF 7 ONONONOFF 8 OFFOFFOFFON 9 ONOFFOFFON 10 OFFONOFFON 11 ONONOFFON 11 OFFOFFONPack1 12 OFFOFFONON 14 OFFONONON 14 OFFONONON 15 ONONONON						
Addit#1#2#3#4Description0OFFOFFOFFOFFPackO1ONOFFOFFOFFPack12OFFONOFFOFFPack23ONONOFFOFFPack34OFFOFFOFFONOFF5ONOFFONOFFPack45ONOFFONOFFPack56OFFONONOFFPack67ONONONOFFPack78OFFOFFOFFOFFONPack89ONOFFOFFONPack910OFFONOFFONPack1011ONONOFFONPack1112OFFOFFONONPack1314OFFONONONPack1415ONONONONPack14	Addr		Description			
0OFFOFFOFFOFFPack01ONOFFOFFOFFPack12OFFONOFFOFFPack23ONONOFFOFFPack34OFFOFFOFFONOFFPack45ONOFFONOFFPack56OFFONONOFFPack67ONONONOFFPack78OFFOFFOFFOFFONPack89ONOFFOFFOFFONPack910OFFONOFFOFFONPack1011ONONOFFONPack1112OFFOFFONONPack1314OFFONONONPack1415ONONONONPack15	Addi	#1	#2	#3	#4	Description
1ONOFFOFFOFFPack12OFFONOFFOFFPack23ONONOFFOFFPack34OFFOFFOFFONOFFPack45ONOFFONOFFPack56OFFONONOFFPack67ONONONOFFPack78OFFOFFOFFOFFONPack89ONOFFOFFOFFONPack910OFFONOFFONPack1011ONONOFFONPack1213ONOFFONONPack1314OFFONONONPack1415ONONONONPack15	0	OFF	OFF	OFF	OFF	PackO
2OFFONOFFOFFPack23ONONOFFOFFPack34OFFOFFONOFFPack45ONOFFONOFFPack56OFFONONOFFPack67ONONONOFFPack78OFFOFFOFFOFFONPack89ONOFFOFFOFFONPack910OFFONOFFOFFONPack1011ONONOFFONPack1112OFFOFFONONPack1314OFFONONONPack1415ONONONONPack15	1	ON	OFF	OFF	OFF	Pack1
3ONONOFFOFFPack34OFFOFFOFFONOFFPack45ONOFFONOFFPack56OFFONONOFFPack67ONONONOFFPack78OFFOFFOFFOFFONPack89ONOFFOFFOFFONPack910OFFONOFFONPack1011ONONOFFONPack1112OFFOFFONONPack1213ONOFFONONPack1314OFFONONONPack1415ONONONONPack15	2	OFF	ON	OFF	OFF	Pack2
4OFFOFFONOFFPack45ONOFFONOFFPack56OFFONONONOFFPack67ONONONOFFPack78OFFOFFOFFOFFONPack89ONOFFOFFOFFONPack910OFFONOFFONPack1011ONONOFFONPack1112OFFOFFONONPack1213ONOFFONONPack1314OFFONONONPack1415ONONONONPack15	3	ON	ON	OFF	OFF	Pack3
5ONOFFONOFFPack56OFFONONONOFFPack67ONONONOFFPack78OFFOFFOFFOFFONPack89ONOFFOFFOFFONPack910OFFONOFFONPack1011ONONOFFONPack1112OFFOFFONONPack1213ONOFFONONPack1314OFFONONONPack1415ONONONONPack15	4	OFF	OFF	ON	OFF	Pack4
6OFFONONOFFPack67ONONONOFFPack78OFFOFFOFFOFFONPack89ONOFFOFFONPack910OFFONOFFONPack1011ONONOFFONPack1112OFFOFFONONPack1213ONOFFONONPack1314OFFONONONPack1415ONONONONPack15	5	ON	OFF	ON	OFF	Pack5
7ONONONOFFPack78OFFOFFOFFONPack89ONOFFOFFONPack910OFFONOFFONPack1011ONONOFFONPack1112OFFOFFONONPack1213ONOFFONONPack1314OFFONONONPack1415ONONONONPack15	6	OFF	ON	ON	OFF	Pack6
8OFFOFFOFFONPack89ONOFFOFFONPack910OFFONOFFONPack1011ONONOFFONPack1112OFFOFFONONPack1213ONOFFONONPack1314OFFONONONPack1415ONONONONPack15	7	ON	ON	ON	OFF	Pack7
9ONOFFOFFONPack910OFFONOFFONPack1011ONONOFFONPack1112OFFOFFONONPack1213ONOFFONONPack1314OFFONONONPack1415ONONONONPack15	8	OFF	OFF	OFF	ON	Pack8
10OFFONOFFONPack1011ONONOFFONPack1112OFFOFFONONPack1213ONOFFONONPack1314OFFONONONPack1415ONONONONPack15	9	ON	OFF	OFF	ON	Pack9
11ONONOFFONPack1112OFFOFFONONPack1213ONOFFONONPack1314OFFONONONPack1415ONONONONPack15	10	OFF	ON	OFF	ON	Pack10
12OFFOFFONONPack1213ONOFFONONPack1314OFFONONONPack1415ONONONPack15	11	ON	ON	OFF	ON	Pack11
13ONOFFONONPack1314OFFONONONPack1415ONONONONPack15	12	OFF	OFF	ON	ON	Pack12
14OFFONONONPack1415ONONONONPack15	13	ON	OFF	ON	ON	Pack13
15 ON ON ON ON Pack15	14	OFF	ON	ON	ON	Pack14
	15	ON	ON	ON	ON	Pack15

BAT1-M M-Master S-Slave Ŭ - Ľ ON DIP ON DEP ON OF ON DIP ON DIP ON DIP ON DP Î ON OF ON OF ON DP

13. Host computer communicationa ddress code setting

Communication Input the current master or slave code system to be communicated in the system parameters of the host computer, and the communication can be detected and communicated. The BMS is configured in stand-alone working mode, and the DIP address can be any address; The BMS is configured in cascading working mode, and the DIP address is selected from 0 to 15 for different addresses.

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