email: sale@EGOWEY.COM Mob:+86-15625233996

# EGOWEY 51.2V 184Ah LIFEPO4 BATTERY PACK USER MANUAL

Please read this manual carefully before operating and retain it for future reference.



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Functions	Configuration
External switch	Υ
Current limiting	Υ
Display screen	Υ
Data storage	Υ
Pre-charging	Υ
Communication	CAN
Multi-trip	Υ

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#### 1. Introduction

The 51.2V 184Ah battery system is applicable to home energy storage, small or medium sized shopping mall energy storage, which uses 16 pieces of 3.2V 184Ah battery cells in 16s1p configuration. Built-in EGOWEY smart BMS support maximum of 16 packs of battery in parallel to achieve higher capacity. The system cannot be connected in series. And do not mix use a EGOWEY battery with any other battery brands or models.

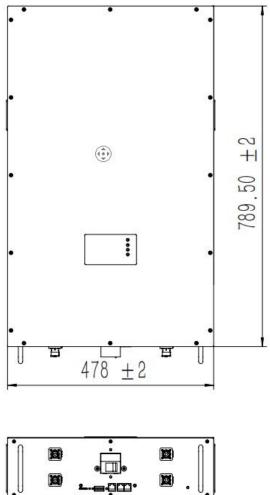
#### 2. Function

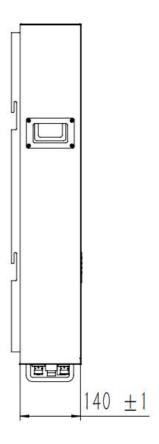
- C16-cell battery voltage sampling test, with deviation of ±20mV.
- Battery and ambient temperature detection: 4 battery temperature sensors, 1 ambient temperature sensor, and 1 MOS temperature sensor, with a deviation of ±2°C.
- Battery capacity and cycles: Complete a full charge/discharge cycle to set the actual capacity. The remaining capacity of the battery is monitored with a capacity estimation accuracy within 5% deviation.
   Additionally, charge and discharge cycle times as well as full charge and discharge cycle times are configurable.
- Intelligent cell balancing: The charging and static balancing strategies
   can be set flexibly to effectively extend the service life.

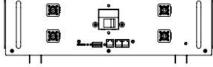
- Communication port: PC or smart front-end can monitor battery pack data, control operation and set parameters through commands such as telemetry, remote signaling, remote adjustment, and remote control. The communication protocol conforms to the requirements of YD/T 1363.3, and realizes cascade communication at the same time.
- History data recording, saving and reading: Battery condition and alarm information will be recorded and save in real time when there is abnormality in the battery. A maximum of 500 history failure data can be stored.
- Battery management system parameter setting: Battery management system parameters includes cell over-voltage/under-voltage, battery total voltage over-voltage/under-voltage, charging/discharging over-current, battery high/low temperature, battery capacity, working mode, charging/discharging current limiting and so on. They can be set in the battery monitor system.
- Working mode: Working modes including charging/discharging current limiting, fixed voltage output, direct output and so on.
- Multiple protection functions: Hardware protection, battery protection, high/low temperature protection, output short-circuit protection and so on.

# 3. Product Information

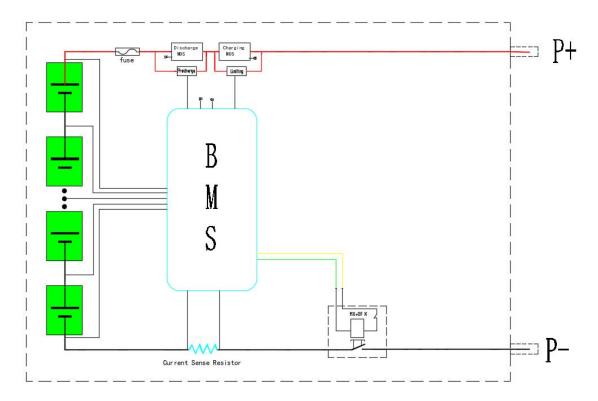
#### 3.1 Dimensional Size and Port Illustration







# 3.2 Electrical Schema



# 3.3 Battery Performance Parameter

No.	Project	Specification
1	Battery Configuration	1P16S
2	Nominal Voltage	51.2V
3	Working Voltage Range	42V~58.4V
4	Nominal Capacity	184Ah
5	Nominal Power	9.42KWh
	Standard	
6	Charging/Discharging	50A @25±2°C
	Current	
7	Maximum Charging Current	100A@25±2°C
8	Maximum Discharging	100A @25±2°C
9	Working Ambient	0~40°C(Charge)

		-20 ~ 40°C(Discharge)
10	Storage Temperature & Humidity	-10°C~35°C (Storage Duration less than 1 month)  25±2°C (Storage Duration less than 3 months)  65%±20%RH
11	Size (L x W x H)	(790)×(478)×(140)mm
12	Weight	78Kg±3kg
13	Cycling Lifespan	6000 cycles @25℃ 36A Charging/discharging Current 80% DOD
18	IP Rate	IP 30
19	Communication	CAN
20	Altitude	0-3000m
21	Humidity Range	5~95%

# 3.4 Battery Protection Parameter

Function	Function	Project List	Setting Value	Setting
Name	Setting			Range

	<mark>On</mark>	Cell high voltage alert	3500mV	Cell high voltage recovery~Cel I over-voltage protection
		Cell high		3000mV~Vol
		voltage	3400mV	tage of cell
Cell Voltage		recovery		high-voltage
Alarm	<mark>On</mark>			Cell under
				voltage
		Cell low	2900mV	protection~C
		voltage alert		ell low
				voltage
				recovery
		Cell low		Cell low
		voltage	3000mV	voltage
		recovery		alert~3300m
				V

		Cell		Cell high voltage		
		over-voltage	3650mV			
		protection		alert~4500m		
				V		
				Cell high		
		Cell		voltage		
			3400mV	recovery~Cel		
		over-voltage	34001110	I		
Cell	oltag <mark>On</mark>	recovery		over-voltage		
over-voltag				voltage		
e protection					1. Cell voltage	drops to over
			voltage recovery	y point		
			2. Residual capa	acity less than		
		Over-voltage	96% of	intermittent		
		recovery	complementary	capacity		
		condition	Recovery can	only be made		
			when two condi	tions are met		
			Battery discha	rging current		
			detected>1A			

		Under voltage protection voltage	2700mV	1500mV~Cel I under voltage recovery
Cell under voltage protection		Under voltage recovery voltage	2900mV	Cell under voltage protection~C ell low voltage alert
		Cell under voltage turn-off	Turn off and communication when protection is trig	under-voltage
		Under voltage recovery condition	Charging curre	ent detected

	On	High total voltage alert	56.0V	High total voltage recovery~Ov er total voltage protection
Battery total		High total voltage recovery	54.0V	53.0V~Volta ge of high total-voltage
voltage alert		Low total voltage alert	46.4V	Under total voltage protection~L ow total voltage recovery
		Low total voltage recovery	48.0V	Low total voltage alert~55.0V
Over total voltage protection	<mark>On</mark>	Over total voltage protection	57.6V	High total voltage alert~60.0V

				High total
		Over total		voltage
		voltage	54.0V	recovery~Vol
		recovery		tage of over
				total-voltage
			1. Cell voltage	drops to over
			voltage recovery	y point
			2. Residual cap	acity less than
		Over-voltage	96% of	intermittent
		recovery	complementary	capacity
		condition	Recovery can	only be made
			when two condi	tions are met
			Battery discha	rging current
			detected>1A	
			,	
Under total		Under total		36.0V~Under
voltage	<mark>On</mark>	voltage	41.6V	total voltage
protection		protection		recovery

				1
				Under total
	Under total		voltage	
		voltage	46.0V	protection~L
		recovery		ow total
				voltage alert
		llodov total	Turn off a	nd maintain
		Under total	communication	for 1 minute
		voltage	when	under-voltage
		turn-off	protection is trig	ggered
		Under voltage recovery condition	Charging curr	ent detected
		Condition		
Cell temperature and	<mark>On</mark>	Charging high temperature alert	50°C	Charging high temperature recovery~Ch arging over-temper ature protection
charging forbidden	Charging high temperature recovery	47°C	35°C  ~Charging  high  temperature  alert	

	Charging		Charging over-temper
	over-temperatu	55℃	ature
	over temperatu	33 C	recovery~80
	re protection		°C
			Charging
			high
	Charging		temperature
	over temperatu	50°C	recovery~Ch
	over-temperatu	50 C	arging
	re recovery		over-temper
			ature
			protection
			Charging
	Charging law		under
	Charging low		temperature
	temperature	2°C	protection~C
	alort		harging low
	alert		temperature
			recovery
	Charging low		
			Charging low
	temperature	5°C	temperature
	recovery		alert~10℃
			-20°C
	Charging under		~Charging
	temperature	-10℃	under
	protection		temperature recovery

	Charging under temperature recovery	0℃	Charging under temperature protection~C harging low temperature recovery
Cell temperature and	Charging high temperature alert  Charging high temperature	52°C 47°C	Charging high temperature recovery~Dis charging over temperature protection 35°C ~Charging high
charging forbidden	recovery		temperature alert
	Discharging over temperature protection	55°C	Discharging over temperature recovery~80

Discharging over temperature recovery	50°C	Charging high temperature recovery~Dis charging over temperature protection
Discharging low temperature alert	-10℃	Discharging under temperature protection~ Discharging low temperature recovery
Discharging  low temperature recovery	3℃	Discharging low temperature alert~10°C
Discharging under temperature protection	-15℃	-30°C ~Dischargin g under temperature recovery

		Discharging under temperature recovery	0°C	Discharging under temperature protection~ Discharging low temperature recovery
		Ambient temperature alert	50°C	Ambient temperature recovery~Ov er ambient temperature protection
Ambient		Ambient temperature recovery	47°C	-20°C ~Ambient temperature alert
temperature protection	· ·	Over ambient temperature protection	60°C	Over ambient temperature recovery~80 °C
	Over ambient temperature recovery	55°C	Ambient temperature recovery~ Over ambient temperature protection	

		Low ambient temperature alert	0°C	Under ambient temperature protection~ Low ambient temperature recovery
		Low ambient temperature recovery	3℃	Low ambient temperature alert~60°C
		Under ambient temperature protection	-10°C	-30°C~ Under ambient temperature recovery
		Under ambient temperature recovery	0°C	Under ambient temperature protection~L ow ambient temperature recovery
Power and temperature protection	<mark>On</mark>	Power high temperature alert	90℃	Power high temperature recovery~Po wer over temperature protection

		Power temperatu recovery	high ire	85℃	60°C~Power high temperature alert
		Power temperatu protection		100℃	Power high temperature alert~120°C
		Power temperaturecovery	over	85℃	Power high temperature recovery~Po wer over temperature protection
Charging current limiting	<mark>Off</mark>	Active cu	urrent	10A	Current limiting is on when charger current >10A

			Current
			limiting is on
			when
			charger
	Passive current		current >
	limiting		over
			charging
			current alert
On			(value is
			adjustable)
			When the
			current
	Chausin		limiting is on,
	Charging		check after 5
	current limiting	5 minutes	minutes
	delay		whether to
			have current
			limiting
			1

Over charging	<mark>On</mark>	Over charging current alert	100A	Over charging current recovery~Ov er charging current protection
current alert		Over charging current recovery	95A	0A~Over charging current alert
Over		Over charging current protection	110A	0A~150A
charging current	<mark>On</mark>	Over charging current delay	10S	Adjustable
protection		Over current recovery condition	Charging immediately automatically in	recovers or recovers n 60s
Effective		tarting charging	1000mA	
charging	Maximum exiting charging current		700mA	

Over discharging	<mark>On</mark>	Over discharging current alert	-105A	Over discharging current protection~ Over discharging current recovery
current alert		Over discharging current recovery	-103A	Over discharging current alert~0A
Over		Over discharging current protection	-110A	Instant over current protection~0
discharging current protection	<mark>On</mark>	Over discharging current delay	105	Adjustable
		Over current recovery condition	Charging recove immediately or automatically in	recovers

				Over
		Instant over		discharging
		current	-220A	current
		protection		protection~
	00			300A
	On On	Instant over	30mS	Adjustable
		current delay	301113	Adjustable
Instant over		Instant over	Charging	recovers
current		current	immediately	or recovers
protection		recovery	automatically in	60s
		Instant over	Repeated 2	degree over
		current	current and	exceeding
		lock-down	over-current loc	king times
	Off	Over-current	Г ±:	
		locking times	5 times	
		Instant locking	Commontina	
		disabling	Connecting charger	
Output	<mark>On</mark>	Short-circuit		
-	(off setting	protection	Programming (not adjustable	
short-circuit	not	current and		
protection	supported)	delay		

		Short-circuit	Charging	recovers
		protection		or recovers
		recovery	automatically in	60s
		Short-circuit	Repeated outpu	ıt short-circuit
		protection	and exceeding	Over-current
		locking	locking times	
	000	Short-circuit	5 times	
	<mark>On</mark>	locking times	5 umes	
		Short-circuit		
		locking	Connecting charger	
		disabling		
Effective	Minimum c	harging starting	-1000mA	
	C	urrent		
discharging current	Maximur	n discharging	-700mA	
Current	exitin	ng current	-700IIIA	
		Ctandby	Turning on bal	ancing when
Cell		Standby	there i	is no
balancing	On	balancing	charging/di	scharging
function		Standby	401	A 12
		balancing time	10 hours	Adjustable

On	Charging balancing	Switching on ba it is in chargin charg	g or floating
	Balancing turn-on voltage	3350mV	
Switching on voltage	Balancing turn-on voltage difference	30mV	Adjustable
condition	Balancing turn-off voltage difference	20mV	
<b>On</b>	Balancing temperature limiting	Balancing temperature ratemperature temperature ale	of ambient
	Balancing high temperature prohibiting	50℃	Adjustable

		Balancing low temperature prohibiting	0°C	
Cell failure		Cell failure voltage difference	500mV	
alert	<mark>On</mark>	Cell recovery voltage difference	300mV	- Adjustable
	Battery no	ominal capacity	100Ah	5Ah ~ 200Ah
Battery capacity setting	Battery residual capacity		Estimation from cell voltage	Adjustable
		Cycling accumulation capacity		Cycling times  (Adjustable )
	<mark>On</mark>	Residual capacity alert	15%	

	<mark>On</mark>	Residual capacity protection	8%	Turn off output		
	Turn-oi	When BMS is in sleeping mod, press reset button for 1s.  When BMS is activated and LED signal lights turn on, it's in normal working state.				
Reset	Turn-o	off/sleeping	When BMS is in standby or working mode (except for charging), press reset button for 3s. BMS is in sleeping mode and LED signal lights turns on, it 's in sleeping mode.			
Pre-chargin g function	2000ms	0~5000msAdju stable	Activating Position as soon	n as BMS turns		

BMS power consumption n manageme nt	<mark>On</mark>	Longest standby time	48h (when charg and there is no discharging o	effective			
Cell low temperature heating	<mark>Off</mark>	Cell low temperature heating Cell heating recovery	0°C 10°C	Adjustable			
exterior switch	Off	When BMS is standing by, exterior switch can be Off or On.					
LCD screen	<mark>On</mark>	Simplify monitoring software and data of cell, temperature, current and so on can be checked					

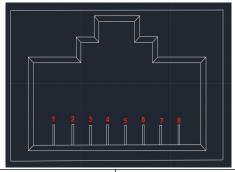
Manual charging activation	On	1 minute	BMS is switched off when it is under pressure protection. Compulsory output by manually activating deleting under pressure protection	Adjustable		
Compensati on resistance	Connectio n failure resistance  Compensat ion point 1	10mΩ 0mΩ	Between 8 and 9 by default 9	Battery connection wire resistance compensatio n		
	Compensat ion point 2	0mΩ	13	, agastasie		

#### 4. Communication

#### 4.1 CAN

BMS has the function of battery pack upload CAN communication, with the baud rate of 500K. CAN communication port adopts 8P8C network cable port. It can communicate with inverter or CAN TEST through CAN port. When the battery pack is connected, the RS485 communication is used to connect, and the battery pack data, status and information are uploaded to the PCS through CAN communication.

#### CAN communication port definition:

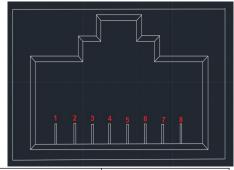


Quote	Definition			
	Interpretation			
1,2,7,8	NC			
4	CAN-L			
5	CAN-H			
3,6	Ground			

## 4.2 RS485

BMS has RS485 communication with battery pack set, with the baud rate of 19200bps. The RS485 communication interface adopts 8P8C network cable interface.

# RS485 communication port definition:

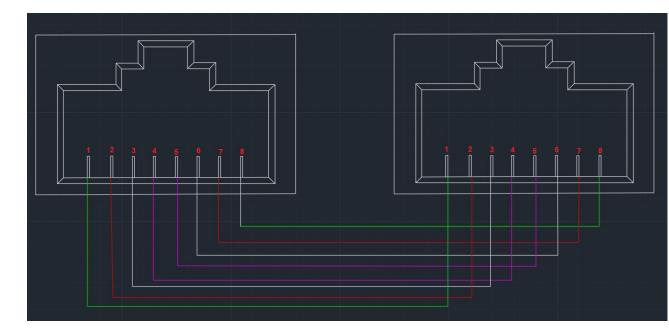


Quote	Definition				
	Interpretation				
1,8	RS485-B				
2,7	RS485-A				
3,6	Ground				
4,5	NC (hung in				
	the air)				

## 4.3 Parallel Communication

When multiple machines are connected in parallel, the RS485 port is used as the parallel communication port, and the CAN port is used as the uplink communication port. The terminal device can read the sum of all

parallel PACK battery data through the CAN port. When multiple machines are connected in parallel, the connection of the RS485 interface is shown in the following figure:



#### 4.4 DIP Address

**Parallel DIP Switch Definition:** In the multi-computer communication when the battery packs are connected in parallel, the DIP switch is used to distinguish different Pack addresses, and the hardware address can be set through the DIP switch on the board.

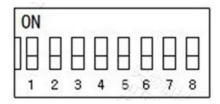
**DIP switch bit1 to bit8 definition:** Bit1 to bit4 are used to set the address, and bit5 to bit8 are used for the number of slaves.

**Master Device Setting:** Bit1 to bit4 are 0, the master address is fixed to 0, and bit5 to bit8 are set according to the number of parallel slaves. (as in

Table 2)

**Slave Device Setting:** Bit1 to bit4 are set according to the device order, and the slave address range is 1 to 15. Bit5 to bit8 are fixed to 0. (as in Table 1)

Parallel use address setting: refer to the following table for the definition of the DIP switch



# 5. Working Mode

# 5.1 Charging Mode

When the BMS detects that the charger is connected and the external charging voltage is greater than the internal battery voltage by more than 0.5V, MOSFET charging will be on. When the charging current reaches the effective charging current, it enters the charging mode. When in charging mode, MOSFET charging and discharging are closed.

# 5.2 Discharging Mode

When BMS detects that there is load connection and the charging current reaches effective discharging current, it gets into discharging mode.

# 5.3 Standby Mode

When it is neither of the modes above, it gets into standby mode.

#### 5.4 Power Off Mode

BMS gets into turn-off mode when standing by for 48 hours, battery under pressure protection is triggered, turning off by button or exterior switch.

Turning off mode activation conditions:

- 1. charging activation;
- 2. activation with 48V voltage;
- 3. manual turn-on

#### 6. Indicators

#### 6.1 LED Indicator Introduction

1 operation light, 1 alert light, 4 capacity signal lights



# 6.2 Capacity Light

State Charging Discharging	
----------------------------	--

Capacity Signal Light		L4•	L3•	L2•	L1•	L4•	L3•	L2•	L1•
					Blin				
	0~25%	Off	Off	Off	king	Off	Off	Off	On
	25 ~			Blin					
	50%	Off	Off	king	On	Off	Off	On	On
	50 ~		Blin						
	75%	Off	king	On	On	Off	On	On	On
		Blin							
	≥75%	king	On	On	On	On	On	On	On
Running Signal Light•		On				Blinki	ng		

# 6.3 Indicator Blinking Type

Blinking Way	On	Off
1 Blink	0.25s	3.75s
2 Blinks	0.5s	0.5s
3 Blinks	0.5s	1.5s

### **6.4 Indicator Status**

System Conditi	Operati	RUN	AL M	soc			Interpretation	
on	on State	•	•	•	•	•	•	
Turn-off	Sleeping	Off	Off	Off	Off	Off	Of f	All being off
Standby	Normal	Blinki ng	Off	Off	Off	Off	Of f	Standby state
Chargin g	Normal	On	Off	Referring to Capacity Signal				Top LED blinks twice
	Over Current Alert	On	2 Blin ks	Referi	ring to Sign	-	city	Top LED blinks twice
	Over Pressure Protectio n	1 Blink	Off	Off	Off	Off	Of f	
	Tempera ture and	1 Blink	Off	Off	Off	Off	Of f	

	over current protectio n							
	Normal	3 Blink s	Off	Referi	ring to	Capa	city	Referring to power turn-on signal
	Alert	3 Blink s	3 Blin ks		Sign	al		
Dischar ging	Tempera ture, over current, short-cir cuit protectio n	Off	On	Off	Off	Off	Of f	Stop discharging. Compulsory sleeping when there is no activity after it is offline for 48 hours
	Under pressure protectio n	Off	Off	Off	Off	Off	Of f	Stop discharging

### 7. Installation

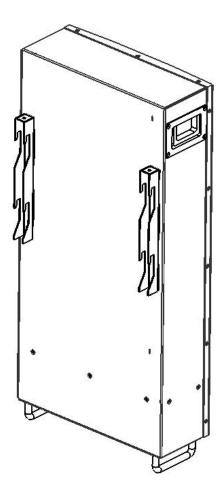
# 7.1 Cargo List

NO. Name	Quantity	Picture	
----------	----------	---------	--

1.	Battery Pack	1 PCS	
2.	Wall-mount Connector	1pcs	
3.	Anchor	4pcs	

#### 7.2 Installation Environment

#### 7.2.1 Check Battery Status

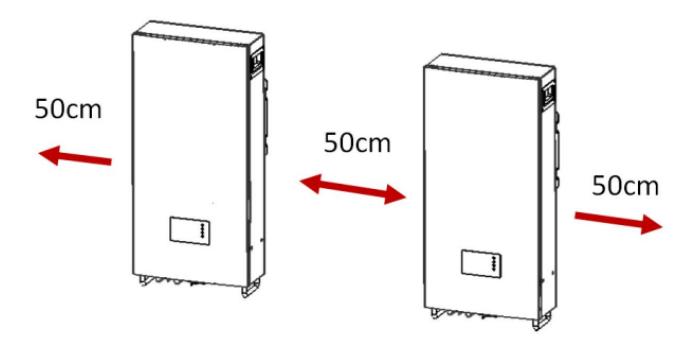


#### 7.2.2 Installation Positioning

- Do not assemble the battery in combustible architecture material.
- Assemble the battery to solid wall and level it with eyes level so the
   LCD display screen can be read any time.
- Keep the temperature between 10°C and 30°C to maintain the best

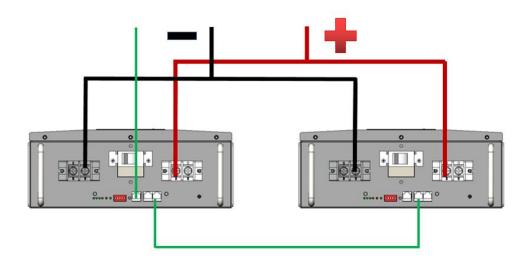
operation state. A vertical installation against the wall is recommended.

- There should be space for dissipation around the battery (as shown below). This applies to concrete surface or other incombustible surface.
- Mark the four fixed positions of the sockets. Anchors should be upward with an angle of 10°to prevent falling down.

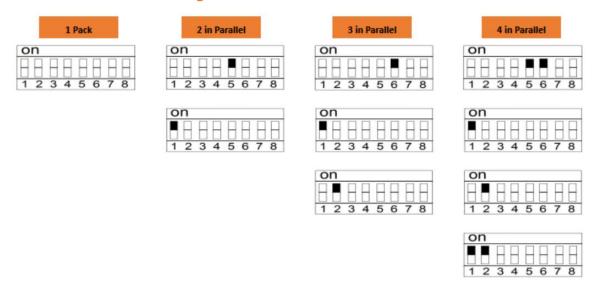


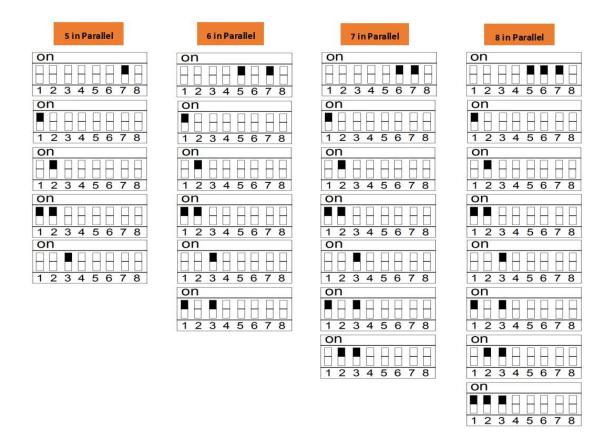
#### 7.2.3 Wiring

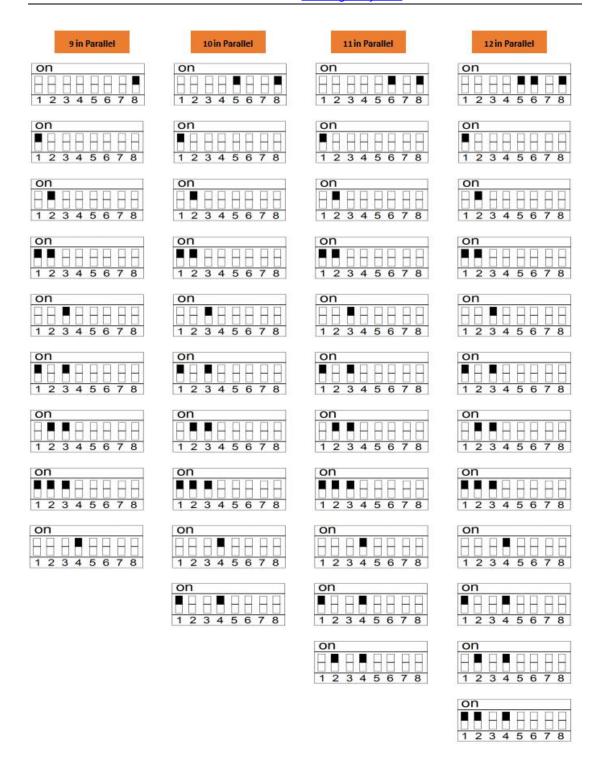
Battery should be turned off before connection



### 7.2.4 DIP Address Settings







13 in Parallel	14 in Parallel	15 in Parallel	16 in Parallel
on	on	on	on
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
on			on ■
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
on	on	on	on
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
on	on	on	on
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
on nn <b>=</b> n nn nn	on n n n n n n	on   n   n   n   n   n   n   n   n   n	on I a a a a a a
		1 2 3 4 5 6 7 8	
1 2 3 4 5 6 7 8 on	1 2 3 4 5 6 7 8 on	1 2 3 4 5 6 7 8 on	1 2 3 4 5 6 7 8 on
	REREERE		REARBERE
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
on	on	on	on
1 2 3 4 5 6 7 8 on	1 2 3 4 5 6 7 8 on	1 2 3 4 5 6 7 8 on	1 2 3 4 5 6 7 8 on
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
on	on	on	on
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
on	on	on	on
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
on	on	on	on
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
on	on	on	
			1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8 on	1 2 3 4 5 6 7 8 on	1 2 3 4 5 6 7 8 on	on
88888888	HHHHHHHH	88888888	88888888
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
			on
			88888888
	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8 on	1 2 3 4 5 6 7 8 on
		1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
			on
			88888888
			1 2 3 4 5 6 7 8

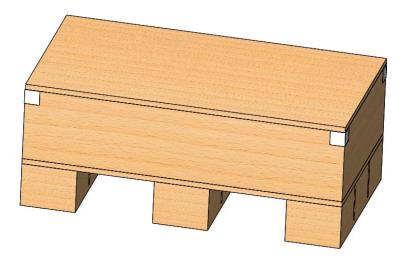
### 8. Packing

Pack it in a dry, dust-proof and moisture-proof box. Pack the product with plastic film/EPE and pack it in a wooden box.

Specification: L 1.2m\*W 1.0m\*H 1.1m 8 Packs Weight: 830kg



Specification: L 90cm\*W 44cm\*H 31cm 1 pack Weight: 90kg



### 9. Safety precaution

- Do not use the battery if there is any obvious impact or deformation.
- Do not stack multiple batteries.
- Pay attention to the polarity of power source or the connection ends
- Use tools and apparatus properly and insulate the device properly.
- Battery installation sites should be away from fire sources or combustible objects.
- It is strictly prohibited to plug or unplug any kits from the device when it is running.
- It is prohibited for non-technicians to open any function modules.
   Anyone violating this rule is at his/her own risk.
- Please fully charge the battery with specialized charger before using the new battery or using it for a long duration.

- Do not assemble, open, squeeze, bend, deform, pierce or break the product.
- Do not retrofit the battery or plug it to any other exterior objects. Do not soak the product or expose it to liquids like water, fresh or salty, or beverage (coffee, juice and so on).
- Do not short-circuit the battery or contact the battery contact ends with metal or other conductors.
- Do not drop the battery. If it happens(especially dropping to the hard ground), please contact the service center.
- If there is any electrolyte leakage, make sure the battery make no contact with skin or eyes. If they have contact, please wash the contact area with fresh water or seek help from the doctors.
- Do not dissemble the cell battery in any circumstance. It may lead to internal short circuit or even cause fire or other problems.
- Do not burn the battery or put it in the fire in any circumstance.
   Otherwise, it may cause battery burning.



# Shenzhen EGOWEY Technology Co., LTD

www.egowey.com

sales@egowey.com

+86-15625233996