

# Installation and configuration manual With GOODWE

**Pytes Lithium Battery** 

**E-BOX series** 

With GOODWE Energy Storage Inverter

GW-BP/SBP/GW-ES/EM





## CONTENTS

BOM LIST	3
HOW TO INSATLL	5
I. Power Cable Connection	5
2. Communication Cable Connection	7
3. Set The DIP Switch	7
1.Start up the system	8
5.Connect to smart phone	8
6.Change the battery setting of the inverter1	1
7.Check the battery SOC 1	5

## **BOM LIST**

Before installation, you should prepare following items.

Item Remarks		Quantity	
<ul> <li>□ Conductor cross-section: 50 mm<sup>2</sup> to 95 mm<sup>2</sup></li> <li>□ Cable diameters: 14 mm to 25 mm</li> <li>□ Only copper cables may be used.</li> <li>□ The DC cables must be sized for the maximum battery voltage and the maximum battery current (see battery manufacturer documentation).</li> </ul>		Depends on the number of batteries and the connection method	
CAN communication Terminal (RJ45 port) follow CAN protocol, to output batteries information		1	
Twist Pair Cable         For Ethernet Connection between PC and Inverter		1	
PC (Personal Computer) Provide for oneself		1	
Battery 48100R / 48100C / 4850		Depends on the number of batteries and the connection method	
Inverter Goodwe GW-BP/SBP/GW-ES/EM		1	

Definition of RJ45 Port Pin for BMS is as follow.

Click here to tell the version of 48100R you have.

#### CAN port definition

Version of 48100R	Pin number of com. cable		
A version	Battery Inverter		
B and C version	Battery Inverter		

## HOW TO INSATLL



## **1. Power Cable Connection**

#### Step.1

Open the cap of the Goodwe inverter.

#### Step.2

Strip cable coat, revealing 10mm length of metal core. Use special crimper to compress battery terminal tightly.



Pic 1.1.1

#### Step.3

Connect battery terminal onto inverter .



Pic 1.1.2

## 2. Communication Cable Connection

Open the cap and connect the other end of the cable to the battery communication port as shown in pic 1.2.1. (Ensure the correct sequence of wires inside the communication cable)

Make sure which communication port to use.



Pic 1.2.2

#### **3. Set The DIP Switch**

Set the ADD switch as shown in graphic 1

## Pyt<sub>2</sub>s

Version of 48100R	ADD setting		
A and B version	Goodwe		
C version	Goodwe		

#### Pic 1.2.3

## 4.Start up the system

Start up the inverters and batteries.

#### **5.Connect to smart phone**

#### Step.1

Download the app PV master from the app store.



Pic 2.2.1

Start the APP then connect to the solar-WIFI ,password is 12345678.



Pic 2.2.2

The BMS status will be showed on the interface if the connection between battery and inverter is correct.



Pic 2.2.3

## 6.Change the battery setting of the inverter

#### **\*CAUTION: If you want more details about the batteries settings**,

please check the operating manual of inverters.

#### Step1.

Choose the Basic settings in settings icon. The Installer login password is:

#### goodwe2010.





Pic 3.1.2

Select your safety settings and opertation mode.

2:17	/ 🛫 🖪	🕥 🖍 🕕 🏨 💎 🚰 4% 🕻	2:17	<b>y</b> 🖪	ۍ ک	HD 3 📑 E 💎 💅 4% 🗓
\$	Select Safety	Settings(V25)	<	Select op	eration r	node
Africa	China	^	General	Mode	0	Forced Off-Grid Mode
America	China	0	0	€	C	
Asia	China Higher	$\sim$		)	  ```	
Europe	China Highest	~		1 🙆		
Oceania	China Station	$\checkmark$	Backup I	Mode		Eco Mode
Other	DEWA LV	~	0			Electricity Price
	DEWA MV	~		6		Time
	Hong Kong	~				
	India	$\sim$				
	India Higher	~				
	JP_50Hz	$\checkmark$				
	JP_60Hz	$\sim$				
	Korea	$\sim$				
	Ne	ext	Prev	ious		Next
					0	$\triangleleft$

Pic 3.1.3

Pic 3.1.4

Select battery model to default(lithium 100Ah), restart the inverter.

(If your battery model is 48100C, you can choose LBS051200A-A02)

	2:17 😏 🖬	🕥 🛷 HD 🕸 🗢 💆 4	4% 🖸
	Select Bat	tery Model	
Alpha-co			
eSTORE	eSTORE		$\sim$
しの味动	LD POWER WORK S2		$\sim$
	NPZ-Battery		$\sim$
Ø	GCL		$\sim$
77	DYNESS		$\sim$
	DEFAULT		$\sim$
	Default		$\bigcirc$
	Default(Lithium 50Ah)		$\oslash$
	Default(Lithium 100Ah)		0
	No battery		$\sim$
	SELF-DEFINE		$\sim$
If no	available battery mode mobile data a	el is found, please swi Ind restart app	itch on
	Previous	Next	
		D d	

Pic 3.1.5

You can also choose self define to define the settings yourself.

Battery Capacity	100 Ah
Set battery capacity value (Ah)	
Charge Voltage	57.5 V
For the maximum charge voltag manual datasheet. Enter the ap according to the battery parame structure.	e, refer to the user propriate value carefully sters and connection
Charge Current	<b>50</b> A
For the maximum charge currer manual datasheet. Enter the ap according to the battery parameter structure.	nt, refer to the user propriate value carefully eters and connection
Discharge Current	50 A
Set the max discharge current (	only On-Grid mode)
SOC Protection	-
The battery stops discharging v discharge set below is reached. depth is set to 60%, the battery SOC reaches 40%.	when the depth of E.g. if the discharge stops discharging when
Depth Of Discharge (On-Grid mode)	90 %
DOD means the max percentag capacity that is allowed to disch SOC Protection is turned ON	e of battery power narge. Only effective when
Depth Of Discharge (Backup Mode)	90 %
DOD, the max percentage of ba allowed to discharge. Only effect is turned ON.	ttery power capacity ctive when SOC Protection
Floating Voltage	58.0 V
3V lower than charge voltage is	recommended.
Floating Current	100.0 A
Set battery floating current	
Floating Time	30.0 min ute
Set floating charge time	
Set	

Pic 3.1.6

## 7.Check the battery SOC

Now you can monitor your plant in the PV master interface.

2:16 🎔 🖪	() of HD ;	۽ 🖈 🚰 4% 🕄			
← 95048ESU20AW0008					
Work Status:No	ormal (On-Grid)	Unit:kW			
2.15 60% 0.86	0.17	-			
Safety Code		China			
Battery Model	Default(Lithiu	ım 100Ah)			
Working mode	Ger	eral Mode			
Meter Status	Communicat	ion Failure			
BMS Status		Normal			
Backup Supply		On			
Export Power Limi	tation	Off			
Overview	Parameters	Settings			
	0 <				

Pic 3.2.1