



# Installation and configuration manual With hoymiles

**Pytes Lithium Battery V5° series**

**With hoymiles Inverter HYS-(3-6)LV-EUG1, HAS-(3-5)LV-EUG1**



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**BOM LIST**

Before installation, you should prepare following items.

<b>Item</b>	<b>Remarks</b>	<b>Quantity</b>
<b>Power Cable (DC)</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Conductor cross-section: 50 mm<sup>2</sup> to 95 mm<sup>2</sup></li> <li><input type="checkbox"/> Cable diameters: 14 mm to 25 mm</li> <li><input type="checkbox"/> Only copper cables may be used.</li> <li><input type="checkbox"/> 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
<b>Com. Cable</b>	CAN communication or RS485 communication	1
<b>Battery</b>	V5° series	Depends on the number of batteries and the connection method
<b>Inverter</b>	Hoymiles	1

**Notice:**

1. Definition of RJ45 Port Pin for BMS is as follow.

The version of V5°.

V5°



V5°alpha



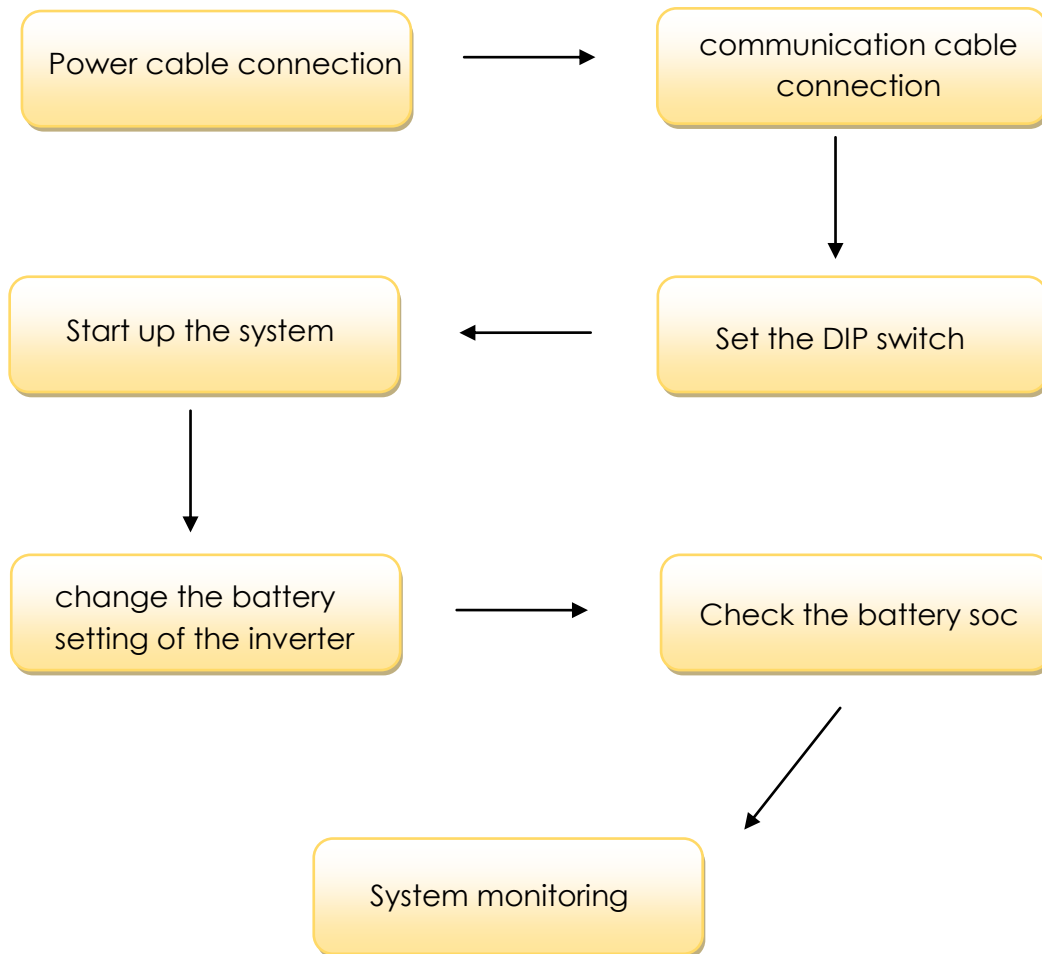
**CAN port definition**

Version of V5°	Pin number of com. cable
V5° & V5°a	

2. We have already listed by hoymiles. But please confirm that the ARM version of inverter is 0.2.18 or above. If not, please updating it before setup the whole system.

Link: [Hoymiles-Compatible-Battery-List\\_V1.41.pdf](#)

## HOW TO INSATLL

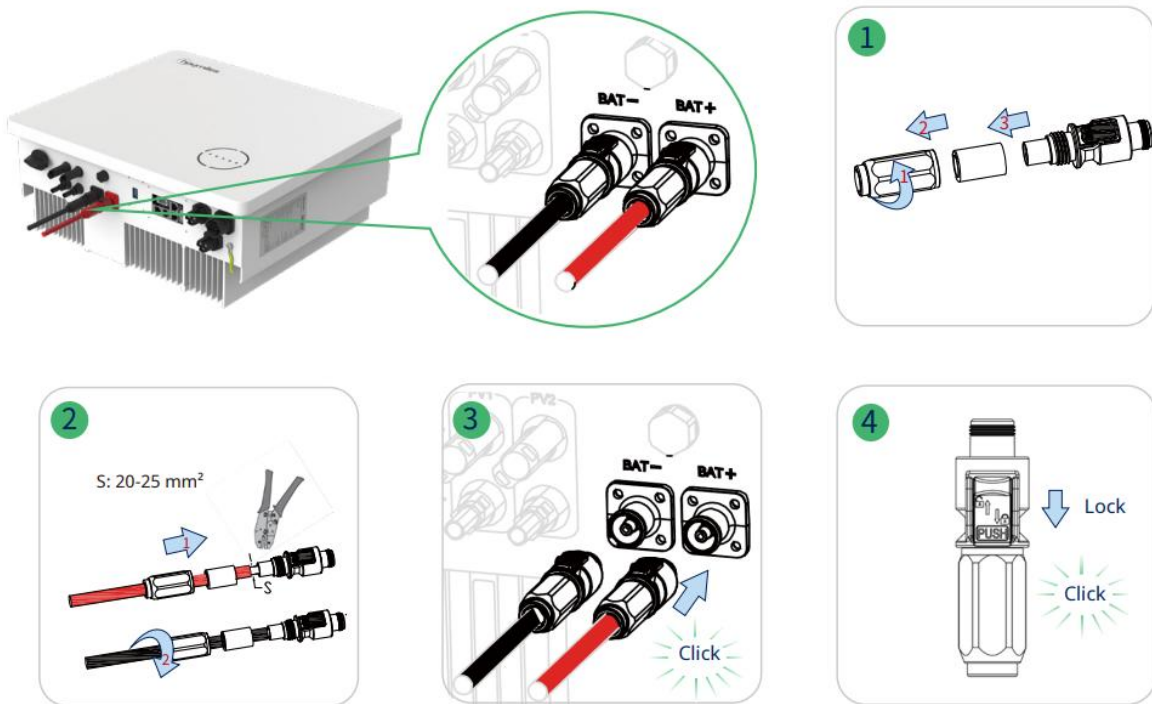


**CAUTION:** If you want to get more inverter-related settings, please refer to the inverter user manual first.


# 1. Power Cable Connection

## Step.1

Connect the red and black cables to the inverter DC connector as shown in Pic 1.1.1.

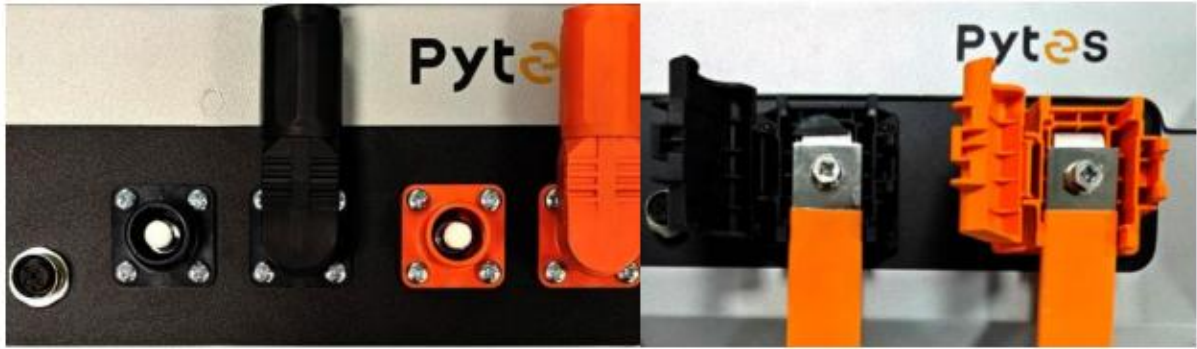


Pic 1.1.1

 <p>NOTICE</p>	<ul style="list-style-type: none"><li>• Use the battery connectors in the accessory box for battery connections.</li></ul>
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## Step.2


At the other end of the cable, connect to the battery as shown Pic 1.1.2. (Ensure that the battery power switch is off)






Pic 1.1.2

## 2. Communication Cable Connection

Connect the end of the cable to the inverter communication port as shown in pic 1.2.1. Make sure which communication port to use.

DI	DRM			 Para1	8-485A_2	120 Ohm	
2	4	6	8		7-485B_2	ON	OFF
IN-	D2/6	D4/8	REF		6-485A_1		
1	3	5	7	5-485B_1	DO1		
IN+	D1/5	D3/7	COM	4-CANL	1	2	
				3-CANH	NO1	COM1	
				2-DI IN-	DO2		
				1-DI IN+	1	2	
					NO2	COM2	

 Meter	8-NC	 BMS	8-485B	 Para2	8-485A_2
	7-NC		7-485A		7-485B_2
	6-NC		6-NC		6-485A_1
	5-485B		5-CANL		5-485B_1
	4-485A		4-CANH		4-CANL
3-NC	3-NTC-	3-CANH	3-NTC+	3-CANH	
2-NC	2-NC	2-DI IN-	2-NC	2-DI IN-	
1-NC	1-NTC+	1-DI IN+	1-NTC+	1-DI IN+	

Pic 1.2.1

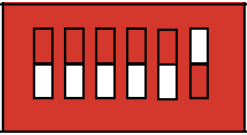
Connect the other end of the cable to the battery communication port as shown in pic 1.2.2. (Ensure the correct sequence of communication cable)



Pic 1.2.2

**3. Set the DIP Switch**

Set the DIP switch as shown in Pic 1.3.1.

Version of V5°	ADD setting
V5° & V5°a	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <span style="font-size: 1.2em; font-weight: bold; margin-right: 10px;">Hoymiles</span>  </div>

Pic 1.3.1

**4. Start up the system**

Once the unit has been properly installed and the batteries are connected well, turn on the batteries, then turn on the Battery Breaker (if have), Grid Breaker, Backup Breaker and Main breaker

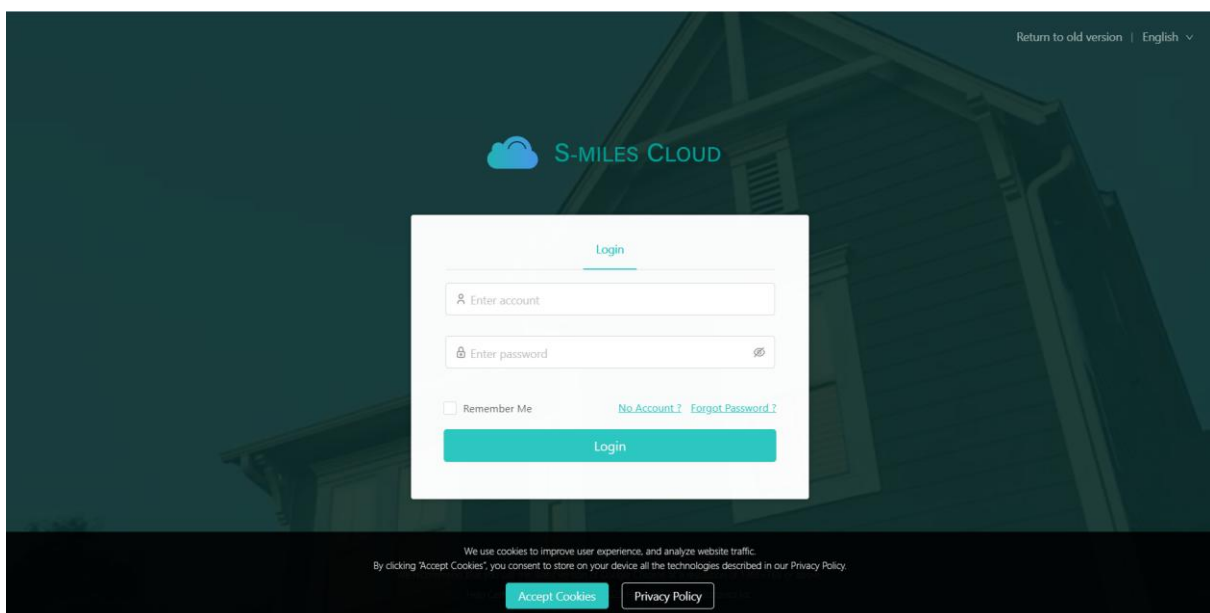


to power the system.

## 5. Change the battery setting of the inverter

※**CAUTION:** If you want more details about the batteries settings, please check the operating manual of inverters.

Log in with your account and password on S-MILES Cloud.



Pic 2.2.1

Select Li-ion Battery and PYTES BMS protocol.

S-MILES CLOUD Home

Plant / Devices

Dashboard Devices

All Devices Enter SN

SN

430122480938

200422440850

000100001810

Device Maintenance

Inverter SN:

Plant:

Software Ver. (System):

Software Ver. (Safety):

Device Maintenance:

### Select Battery Type

Name	Value	Unit	Range
Battery Config	Li-ion Battery	-	-
BMS Protocol	PYTES	-	-
Battery Capacity	100	Ah	0-1000

Cancel Confirm

Pic 2.2.2

## 6. System monitoring

※**CAUTION:** If you want more details about system monitoring, please check the operating manual of inverters.

Please download the S-Miles Cloud App from the Google Play Store or the Apple App Store. The QR code below can also be scanned to download the App. **Please refer to the S-Miles Cloud User Manual from [www.hoymiles.com/resources/download/](http://www.hoymiles.com/resources/download/) for details.**

Download the app from the app store.



S-Miles Installer



S-Miles End-user

Pic 3.2.1

-END-