



# Installation and Configuration Manual With Afore

Pytes Lithium Battery HV48100  
With Afore Inverter



## Content

|                                      |    |
|--------------------------------------|----|
| WARNING .....                        | 2  |
| Prepare Tools .....                  | 3  |
| Check BOM List .....                 | 3  |
| Connect Power Cable .....            | 4  |
| Install WIFI Receiver .....          | 5  |
| Connect Communication Cable .....    | 6  |
| Set DIP Switch .....                 | 8  |
| Start System up .....                | 9  |
| Set up the Inverter .....            | 12 |
| Check battery info on inverter ..... | 13 |

## WARNING

HV48100 is a high voltage DC system and must be operated by authorized person only.

### Before connecting

- 1) Please check products and components according to enclosed packing list after unpacking. Please contact PYTES if there is any damage or missing of products and / or components.
- 2) Make sure power sources are cut off and battery system is powered off before installation.
- 3) Wiring correctly by identifying positive and negative cables to ensure no short circuit with external devices.
- 4) It is forbidden to connect the battery directly with AC power.
- 5) Battery system must be well grounding and the resistance must be less than  $0.1\Omega$ .
- 6) Make sure the electrical parameters of battery system are compatible with related equipment.
- 7) Keep the battery away from water and fire.

### In Operation

- 1) Battery must be physically powered off in case of any move or repair.
- 2) It is forbidden to connect HV48100 to other types of battery.
- 3) It is forbidden to connect the battery to a faulty or incompatible inverter.
- 4) It is forbidden to disassemble the battery (QC label removed or damaged).
- 5) In case of fire, only dry powder fire extinguisher can be used, liquid fire extinguishers are prohibited.
- 6) Please do not open, repair or disassemble the battery other than staffs from Pytes or authorized by Pytes. Pytes do not undertake a consequences or related responsibility caused by violation of safety operation or design, production and equipment safety standards.

### Caution

- 1) Please read this manual carefully before installation and any operation.
- 2) Charge the battery every 6 months to keep battery SOC > 90% if long term storage.
- 3) Battery must be charged within 12 hours when low voltage alarm triggered.
- 4) Battery DC output voltage exceeds 48V. It is vital to pay attention to personal safety in any case when operating.
- 5) All battery terminals must be disconnected before maintenance.
- 6) Please contact with Pytes within 24 hours if there is anything abnormal.
- 7) Battery being damaged directly or indirectly by above cases will result in warranty failure.

## Prepare Tools

Before installation, prepare the following tools to ensure your safety.

|                                                                                   |                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| Wire Cutter                                                                       | Crimping Modular Plier                                                            | Cable Ties                                                                          |
|  |  |  |
| Screw Driver Set                                                                  | Electric Screw Driver                                                             | Insulating Gloves                                                                   |
|  |  |  |
| Adjustable Wrench                                                                 | 1500VDC Isolating nut drivers                                                     | 2000VDC Multimeter                                                                  |

## Check BOM List

Before installation, you should prepare following items.

| Item                  | Quantity |
|-----------------------|----------|
| PYTES HV48100 Battery | 1        |
| Afore Inverter        | 1        |
| Positive Power Cable  | 1        |
| Negative Power Cable  | 1        |
| Communication Cable   | 1        |

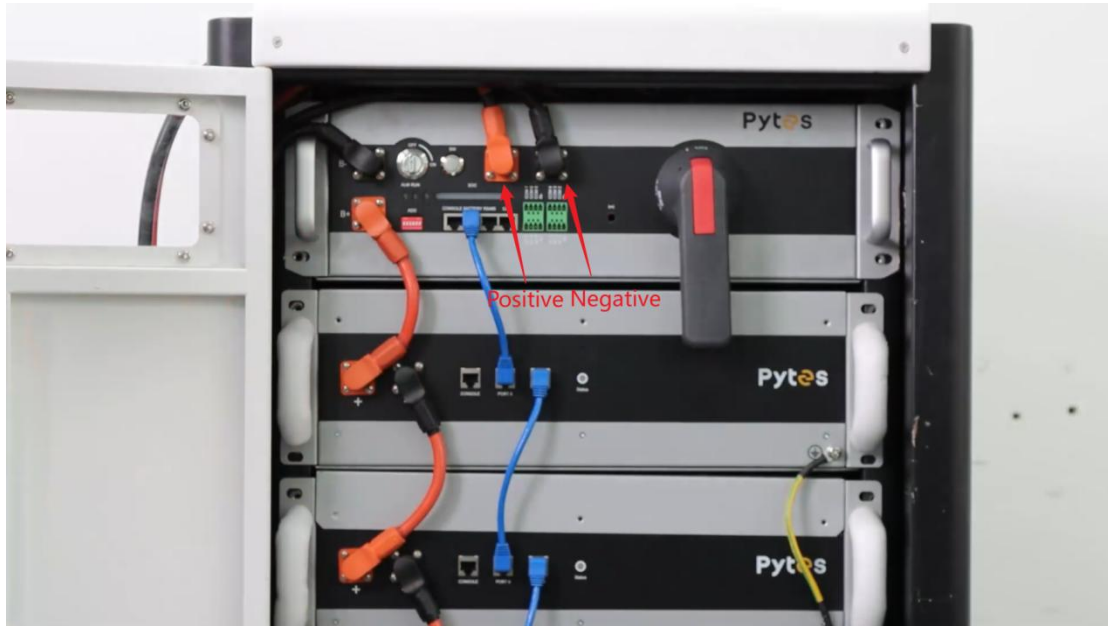
## Connect Power Cable

### Step 1

Double-check to ensure the battery power switch is in the off position before operation.

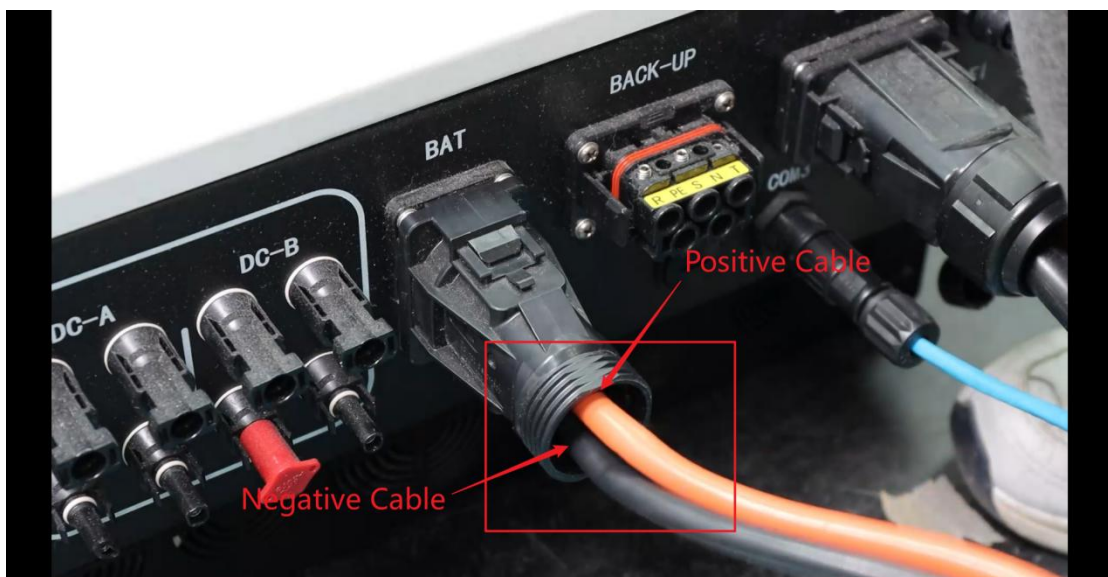
### Step 2

Open the cabinet and plug the positive and negative power cables into the battery power terminals.



### Step 3

Connect the opposite ends of the positive and negative power cables to the corresponding positive and negative terminals of the inverter.



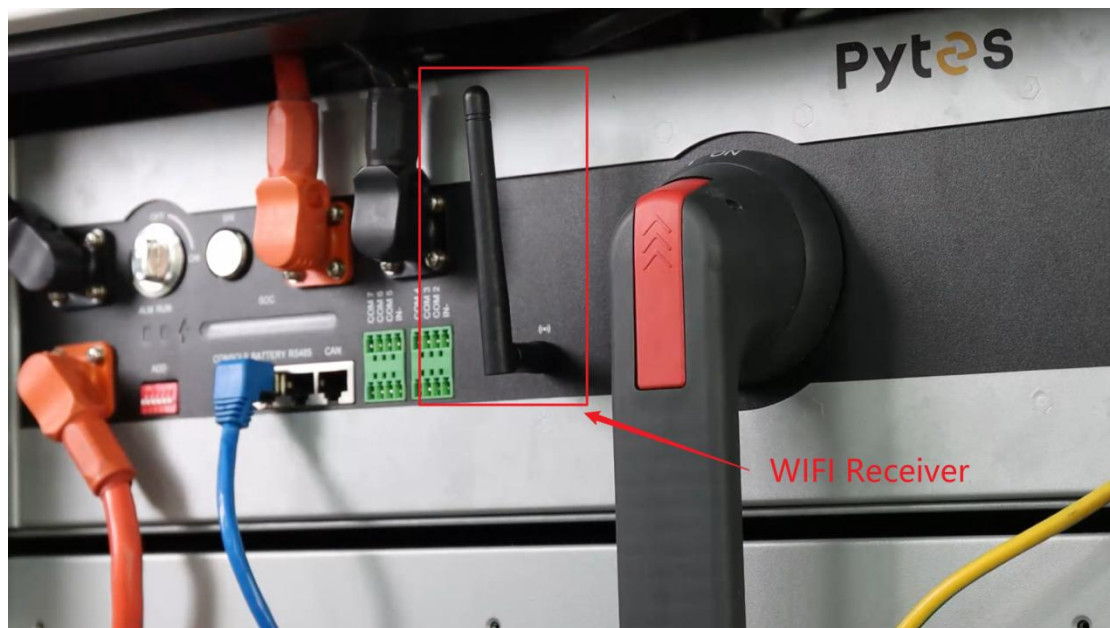
## Step 4

Double-check to ensure that the positive terminal of the battery is connected to the positive terminal of the inverter, and the negative terminal of the battery is connected to the negative terminal of the inverter.

## Install WIFI Receiver

### Step 1

Screw the WIFI receiver in.



## Connect Communication Cable

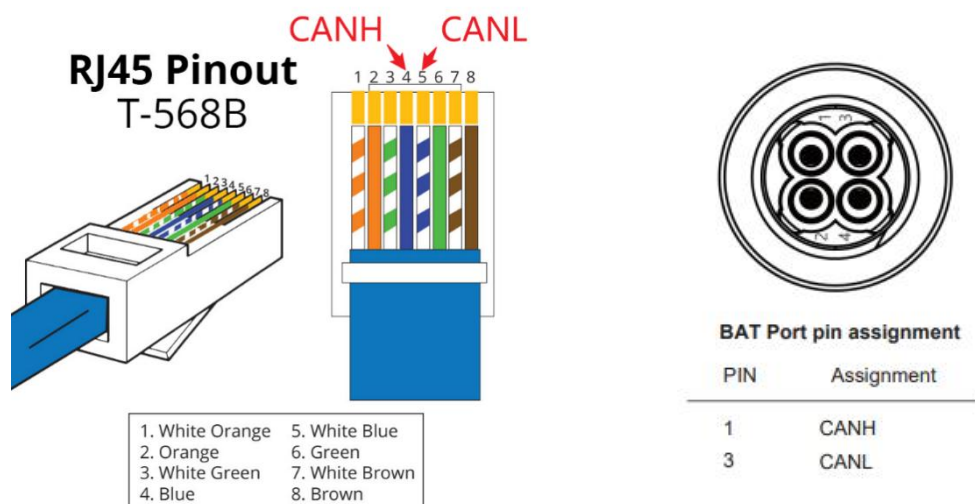
### Step 1

Connect one end of the communication cable to the **CAN** port of the battery.



### Step 2

Connect the opposite end of the communication cable to the **CAN\_H (1)** and **CAN\_L (3)** ports of the inverter. (Blue line to CAN\_H and blue-white line to CAN\_L)





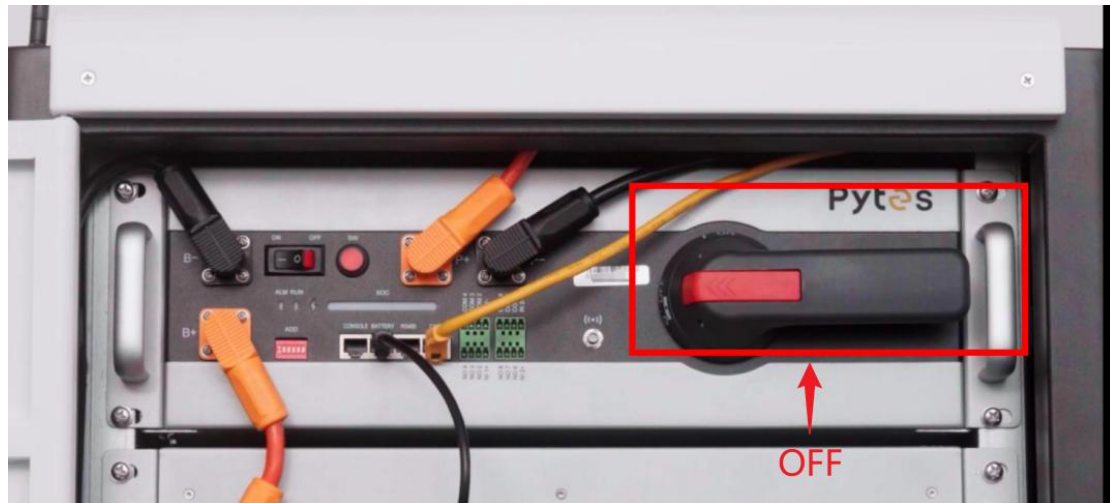




## Set DIP Switch

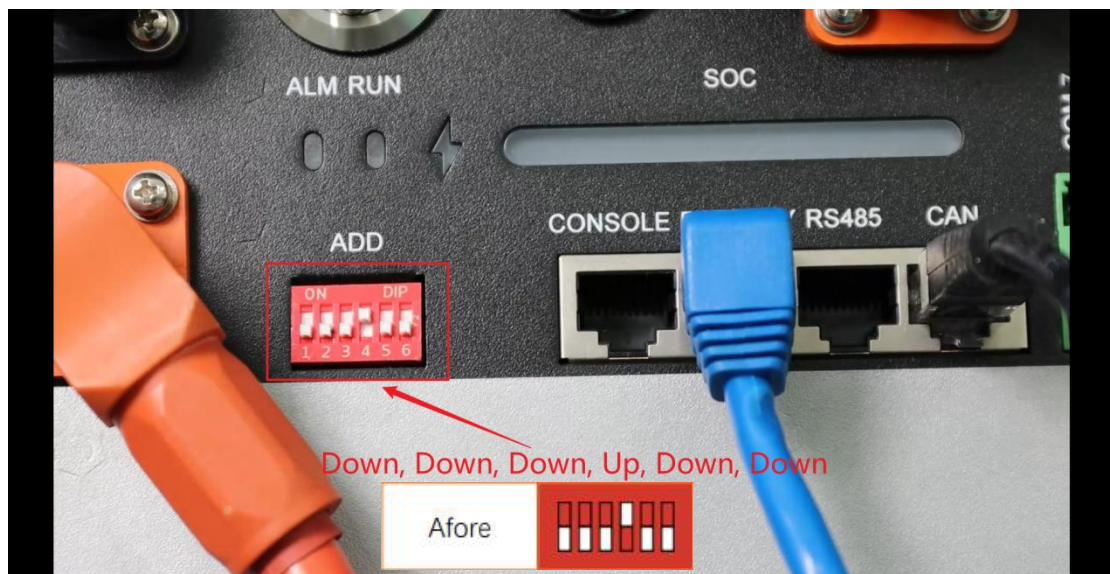
### Step 1

Check to ensure that the isolation switch is in off position.



### Step 2

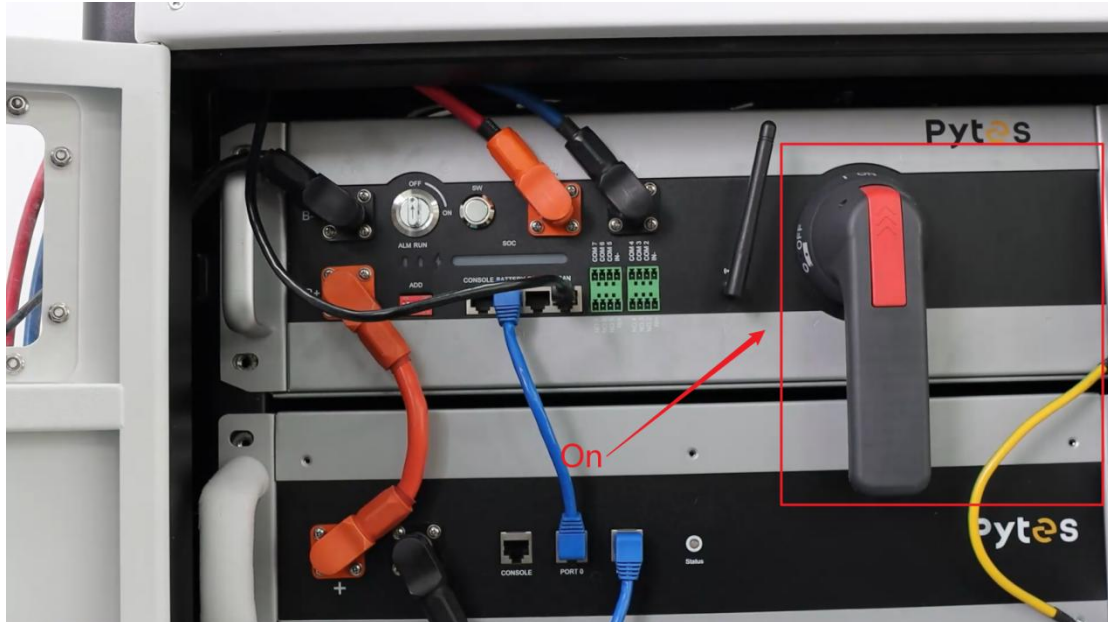
Set the DIP switch to the position as shown in the following pictures.



## Start System up

### Step 1

Open the isolation switch.



### Step 2

Power on the physical switch.



## Step 3

Press the SW button for 1 second.



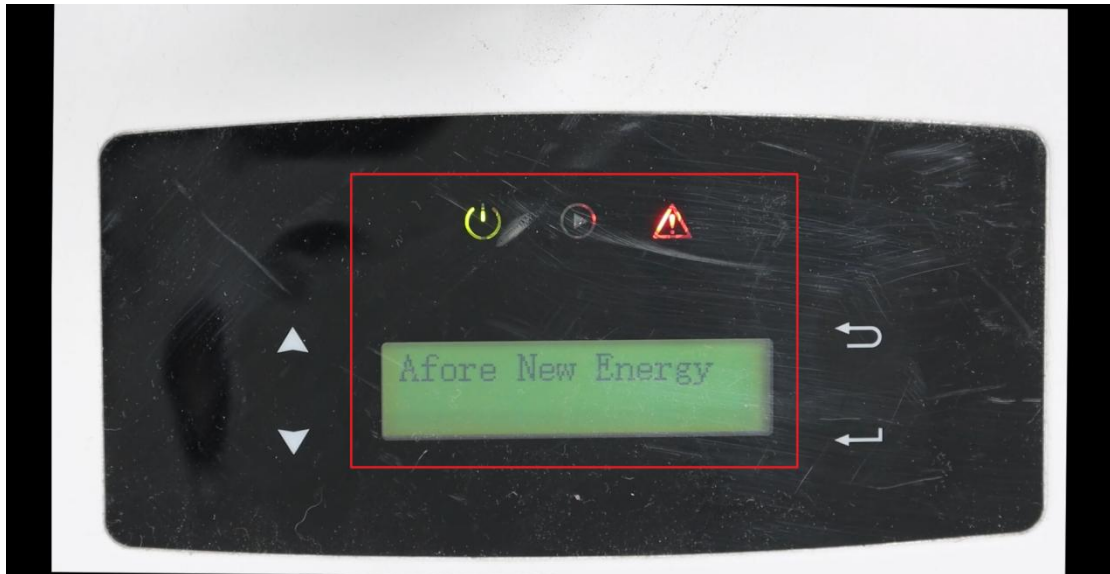
## Step 4

Ensure that the indicator is lighting.



## Step 5

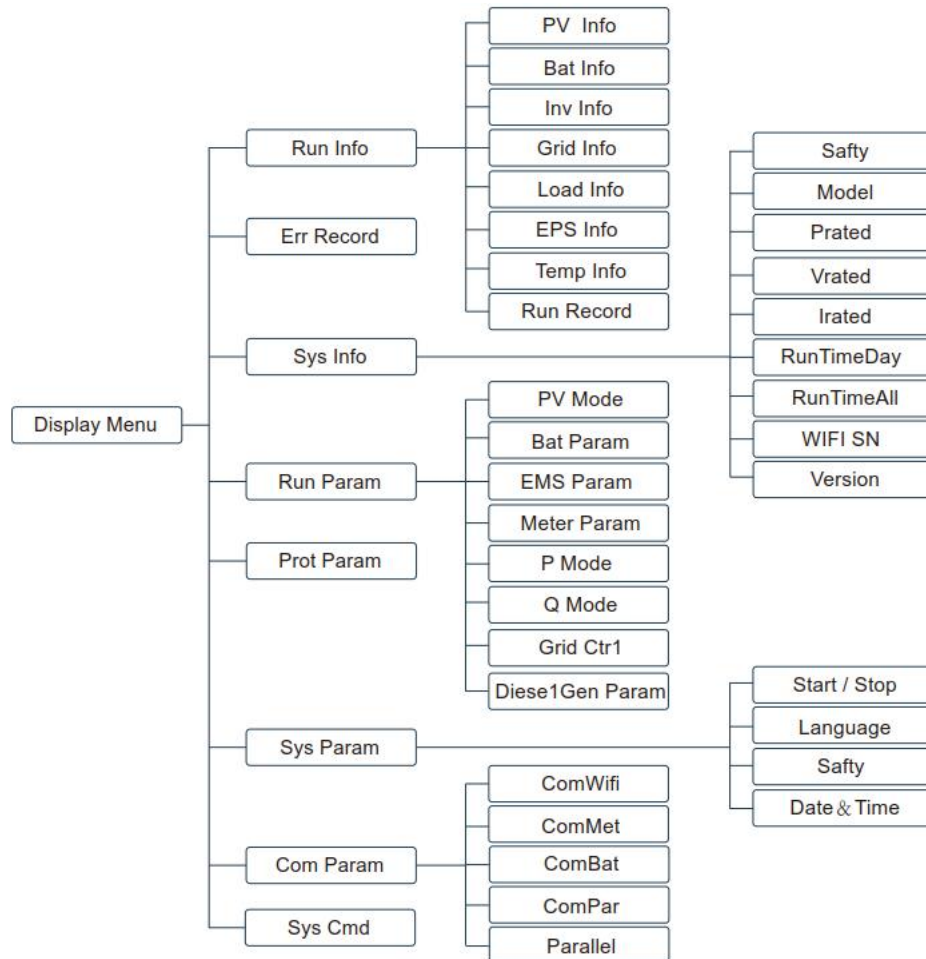
Ensure that the panel light is on.



## Set up the Inverter

CAUTION: For more information, please refer to the user manual of the inverter.

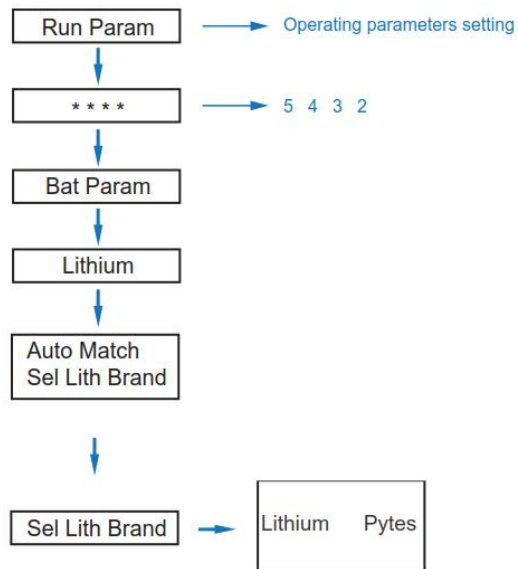
Menu Overview:



### Step 1

Follow the instructions to set the inverter brand to Pytes.





## Check battery info on inverter

### Step 1

The inverter will show battery soc and other Information.

