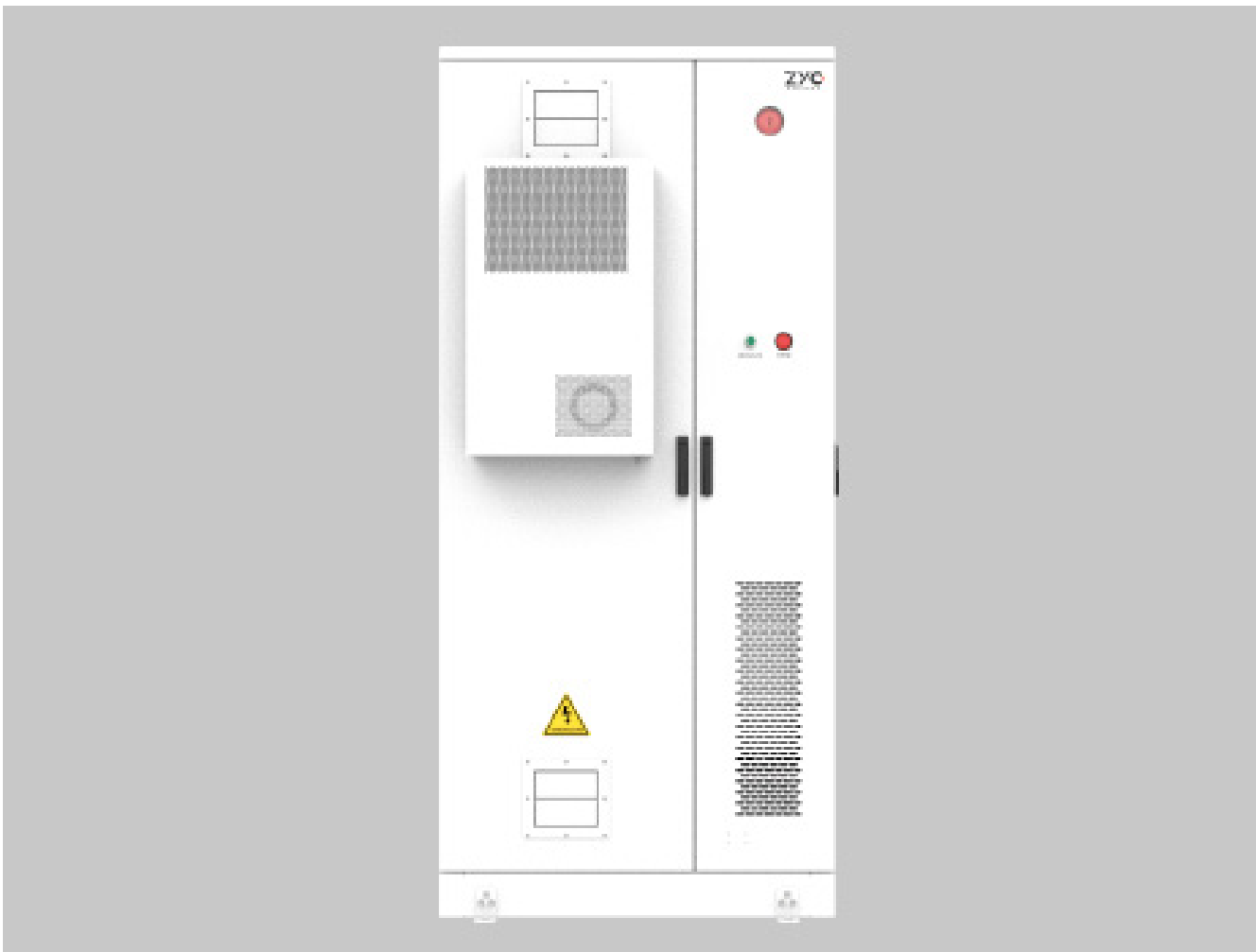


# SIMPO ProE92

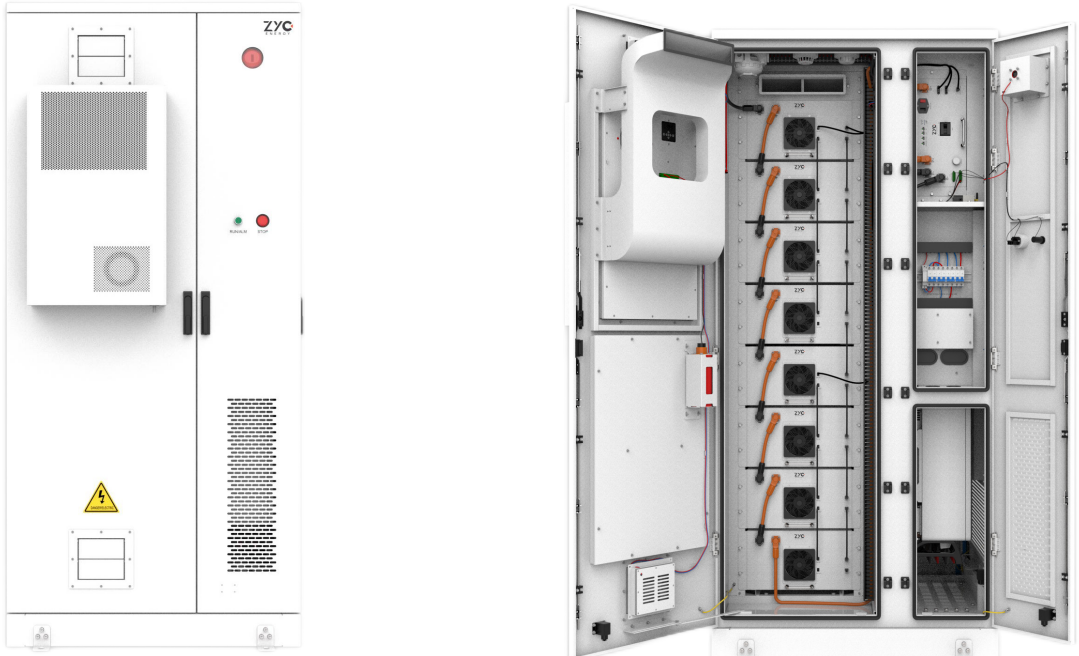
## Quick Start Guide(EN)

ZYC ENERGY  
ZERO YOUR CARBON

Version:V1.0  
Released Date: 2025-07-09



### Datasheet



#### Specification of SIMPO ProE92

| System Data            |                                  |
|------------------------|----------------------------------|
| Nominal Voltage        | 92.16kWh                         |
| Number of Modules      | 8                                |
| Module Data            |                                  |
| Nominal Voltage        | 76.8V                            |
| Operating Voltage      | 60~87.6V                         |
| Module Energy          | 11.52kWh                         |
| System Electrical Data |                                  |
| Nominal Voltage        | 614.4V                           |
| Operating Voltage      | 480~700.8V                       |
| Max Constant Current   | 150A                             |
| Peak Current           | 200A(5s)                         |
| General Data           |                                  |
| Weight(kg)             | 1450kg                           |
| Dimension(W*H*D)       | 2380*1080*1170mm                 |
| Protection Class       | IP55 Outdoor                     |
| Working Temperature    | -20~55°C                         |
| Altitude               | ≤ 3000m                          |
| Efficiency             | ≥ 95%                            |
| Cooling                | HVAC                             |
| Communication          | CAN/RS485/Modbus TCP/IP          |
| Application            | On Grid/Self Consumption/Back up |
| Certifications         | IEC62619,UN38.3,CE               |
| Warranty               | 10 Years Performance Warranty    |

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### Safety

When installing, commissioning, operating and maintaining the product, the safety requirements in the manual should be strictly observed. Incorrect operation or work may lead to damage to the product and other properties or injury or death of the operator or third parties.

When fixing the product with screws or other parts, use the correct tool and reinforce it with the torque indicated in the manual or on the label of the product, otherwise the product may be unstable or damaged.

When using different tools, master the tools in advance to prevent the installer from being injured due to improper handling.

Please read this manual thoroughly before installation to ensure proper and safe installation and use of the product.

### Warning & Caution

- Installers and users are obliged to familiarise themselves with this manual.
- Ensure that a fire extinguisher is in place prior to installation and use.
- Installation and operation must be carried out by qualified personnel and the system must be installed in restricted access areas.
- The battery module is with certain weight.With the help of tools if necessary.

### Handling

- Installers should be cautious during installation to prevent damage to the battery.
- If the battery has been damaged before installation, including but not limited to shell damage, terminal port damage. Please do not use and contact us.
- Protect the battery from being damaged during transporting and handling
- Do not clean the battery with corrosive solution or stuff or allow foreign objects to enter the battery.
- Do not unplug any cables directly while the battery is in operation.
- Avoid subjecting the battery to external forces, such as being dragged on the ground

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### Manufacturer

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### Scoop of Delivery

#### Rack Package



Module Lifting Ring\*1



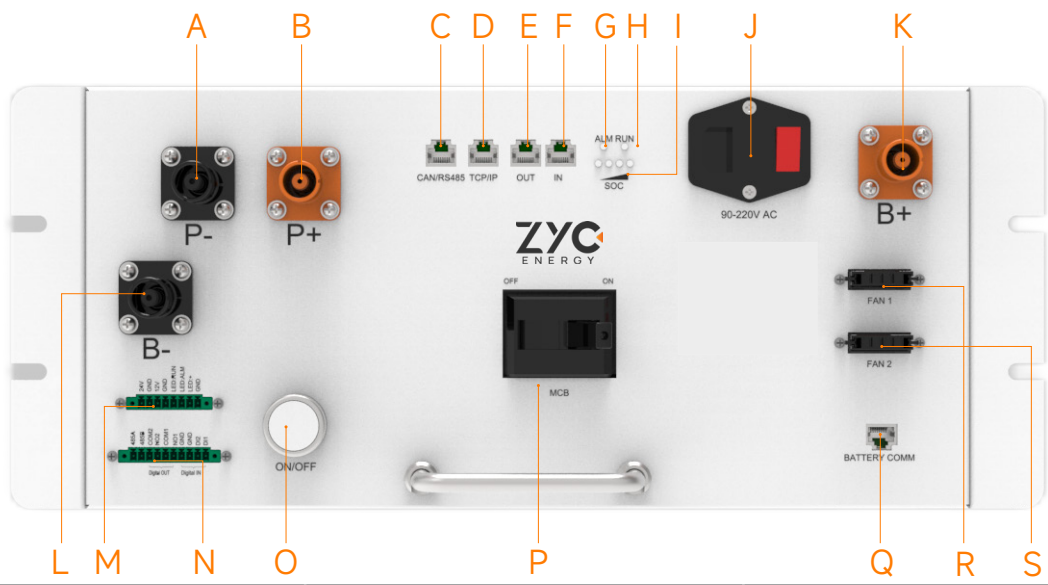
Rack Lift Ring\*4



HVAC Drain\*1

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### SIMPO ProE92 PDU Interface



| Letter | Lable        | Function                      |
|--------|--------------|-------------------------------|
| A      | P-           | DC-(To PCS)                   |
| B      | P+           | DC+(To PCS)                   |
| C      | CAN/RS485    | CAN/RS485 Comm Port           |
| D      | TCP/IP       | TCP/IP Comm Port              |
| E      | OUT          | For comm between PDU          |
| F      | IN           | For comm between PDU          |
| G      | ALM          | Alarm LED                     |
| H      | RUN          | Run LED                       |
| I      | SOC          | Indicate System SOC           |
| J      | 90-220V AC   | For AC Power In               |
| K      | B+           | Power Terminal + (to Battery) |
| L      | B-           | Power Terminal - (to Battery) |
| M      | -            | Functional interface          |
| N      | -            | Functional interface          |
| O      | ON/OFF       | System start up/shut down     |
| P      | MCB          | Main Circuit Breaker          |
| Q      | BATTERY COMM | Comm Port (to Battery)        |
| R      | FAN 1        | For fan power                 |
| S      | FAN 2        | For fan power                 |

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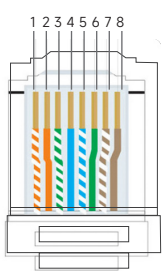
### LED Status on PDU

There are three LEDs on the front panel of SIMPO ProE92 that indicate battery status,ALM, RUN and SOC.

| LED | Status                                                                | Operational State                                               |
|-----|-----------------------------------------------------------------------|-----------------------------------------------------------------|
| ALM |                                                                       | Error occurs                                                    |
|     |                                                                       | There is no error existing                                      |
| RUN |                                                                       | Always On<br>The system is ON and working in communication mode |
|     |                                                                       | Flashes slowly<br>The is working in no-communication mode       |
| SOC |                                                                       | The system is not working                                       |
|     |                                                                       | 75%<SOC ≤ 100%                                                  |
|     |                                                                       | 50%<SOC ≤ 75%                                                   |
|     |                                                                       | 25%<SOC ≤ 50%                                                   |
|     |                                                                       | 0%<SOC ≤ 25%                                                    |
|     | While SOC<5%, the first LED flashes quickly (0.5s ON, then 0.5s OFF)  |                                                                 |
|     | While discharging, the last LED flashes normally (1s ON, then 1s OFF) |                                                                 |
|     | While charging, the last LED flashes slowly (2s ON, then 2s OFF)      |                                                                 |

### Definition of CAN/RS485 Port Pin

#### DEFINITION OF 'CAN/RS485' PORT PIN



| PIN No.    | 1       | 2   | 3   | 4     | 5     | 6       | 7      | 8      |
|------------|---------|-----|-----|-------|-------|---------|--------|--------|
| Definition | 11V GND | 12V | 11V | CAN_H | CAN_L | 12V GND | RS485B | RS485A |

Change the pin order if necessary.

#### DEFINITION OF 'IN' &'OUT' &'TCP/IP' PORT PIN

IN, OUT, TCP/IP port all use Cat5e Ethernet cable.

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### Scoop of Delivery

#### PDU Box



SIMPO ProE92 PDU



Fan Power CableA(1000mm)\*1



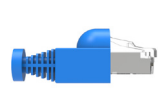
Fan Power CableB(1960mm)\*1



Comm CableA\*1



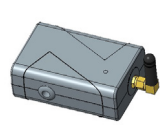
PDU Terminal Resistor\*1



Module Terminal Resistor\*1



M6x16 Screws\*4



SIMPO WIFI

#### Module Box



SIMPO ProE92 Module



Power Cable A\*1



Fan Power CableC(225mm)\*1



Comm CableB\*1



M6x16 Screws\*4

### Tools



Safety Shoes



Insulated Gloves



Goggles



Screw Driver



Torque Wrench



Multimeter



Wire Cutter



Utility Knife



Lift Cart



Electrical Screw Driver

### SIMPO ProE92 Module Interface



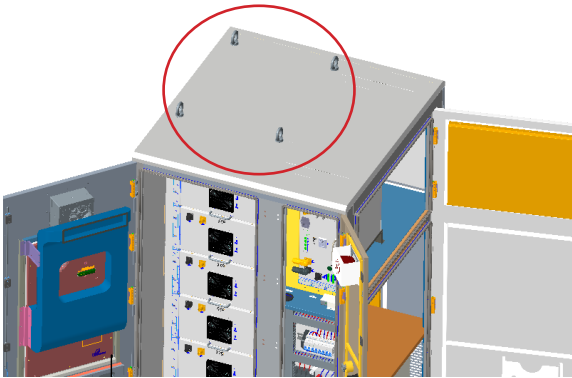
| Letter | Lable   | Function                                            |
|--------|---------|-----------------------------------------------------|
| A      | -       | DC-                                                 |
| B      | +       | DC+                                                 |
| C      | FAN IN  | For fan power                                       |
| D      | FAN OUT | For fan power                                       |
| E      | COM 1   | For communication between different modules and PDU |
| F      | COM 2   | For communication between different modules and PDU |

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### Installation

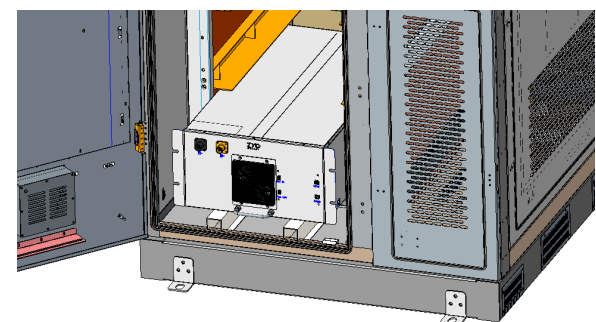
#### Step 1

Install four lift rings



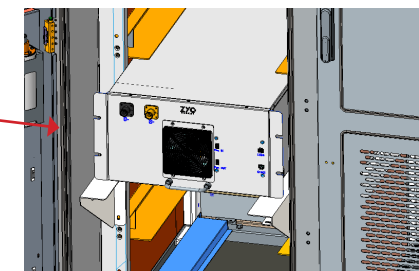
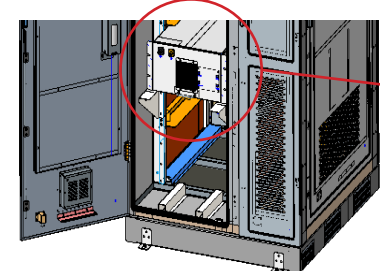
#### Step 2

Slide in the bottom battery



#### Step 3

Use Lift Cart or any useful tools to lift up the battery modules and slide in. Lock with four M6x16 screws for each module.

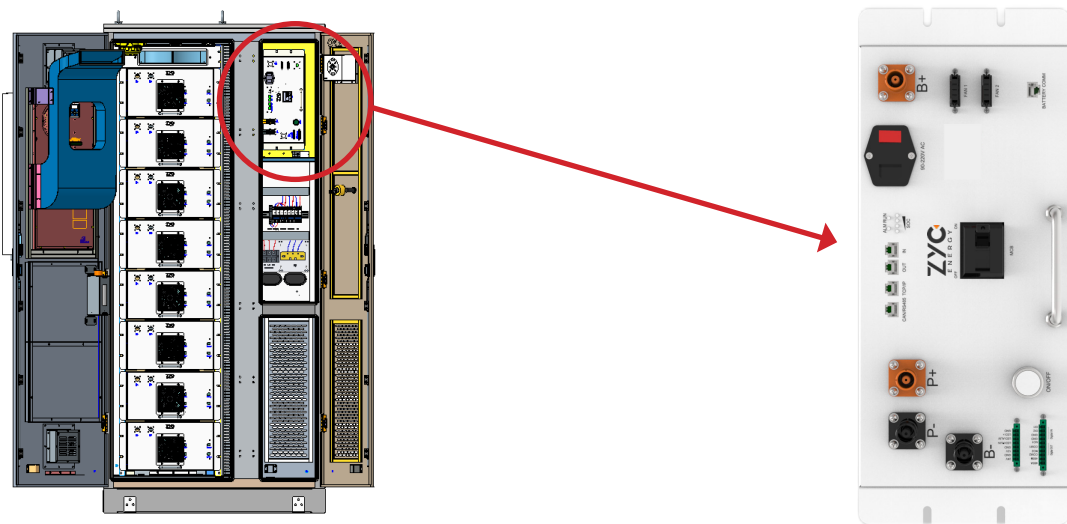


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## Installation

## Step 4

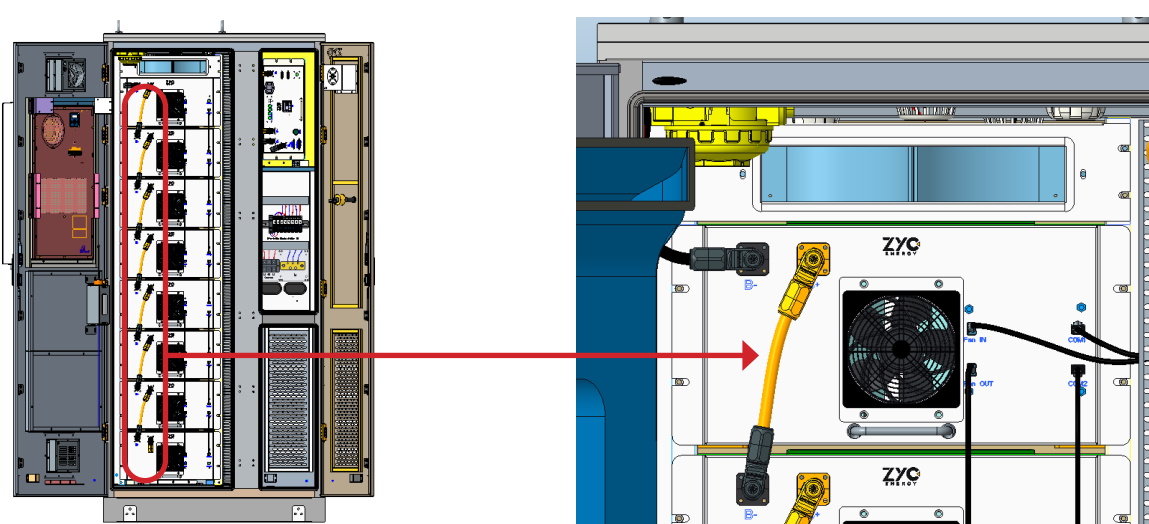
Install the PDU according to the orientation shown below



## Step 5

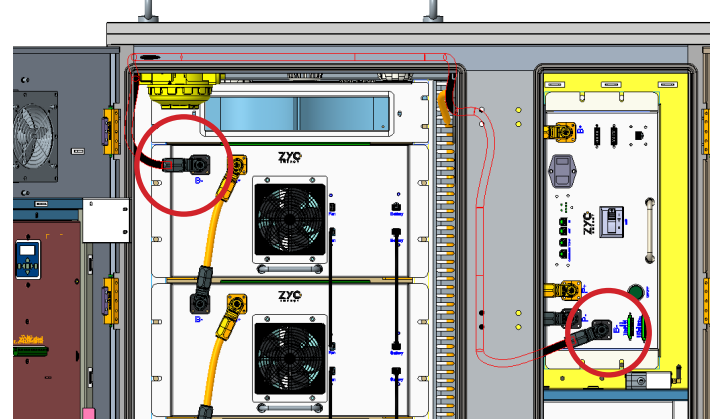
Connect all the power cables between battery modules

\*Orange connectors to orange terminals, black connectors to black terminals



## Step 6

Connect the pre-wired Power Cable(Black Cable) to battery on top(B-) and PDU(B-)

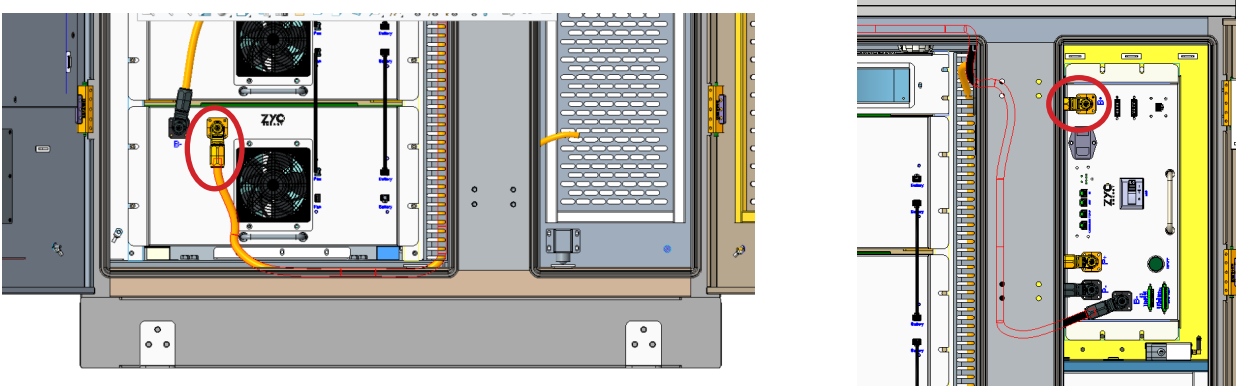


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## Installation

## Step 7

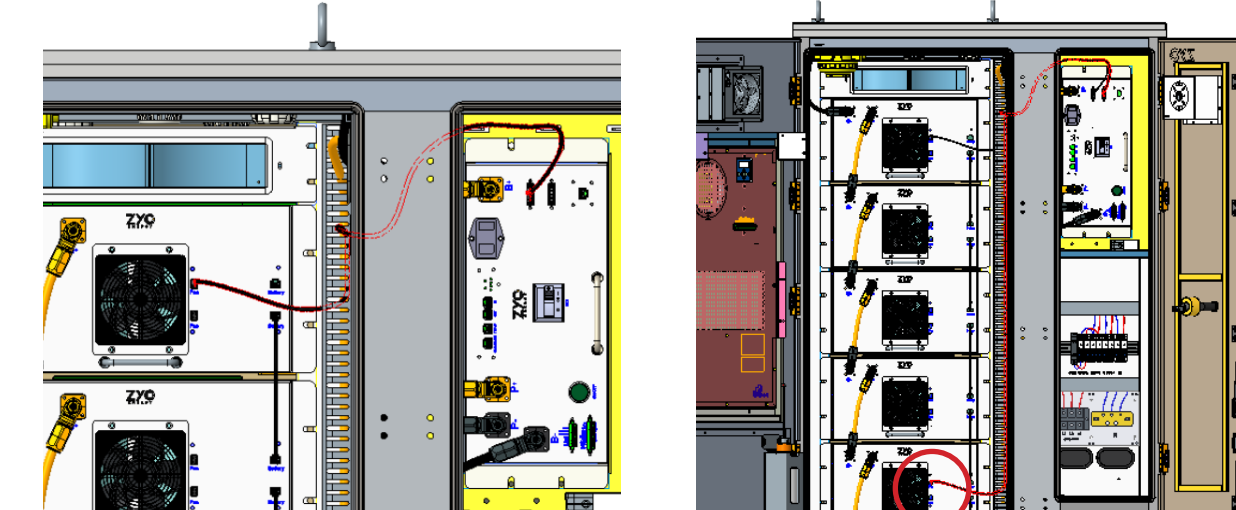
Connect the pre-wired Power Cable(Orange Cable) to battery at the bottom(B+) and PDU(B+)



## Step 8

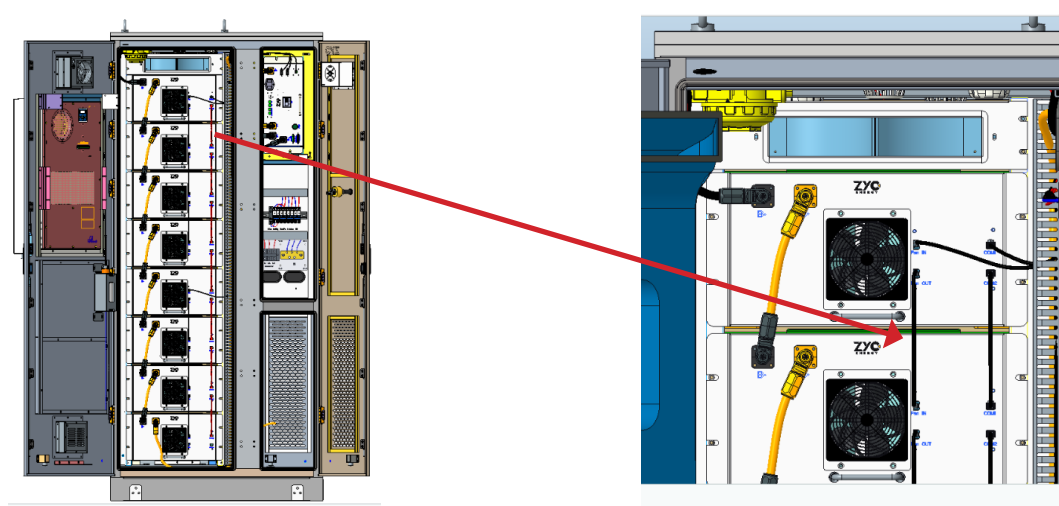
Connect 'Fan Power CableA' from PDU 'FAN 1' to 'FAN IN' of battery on top

Connect 'Fan Power CableB' from PDU 'FAN 2' to 'FAN IN' of the fifth battery from the top



## Step 9

Connect the rest 'FAN IN' and 'FAN OUT' with Fan Power CableC



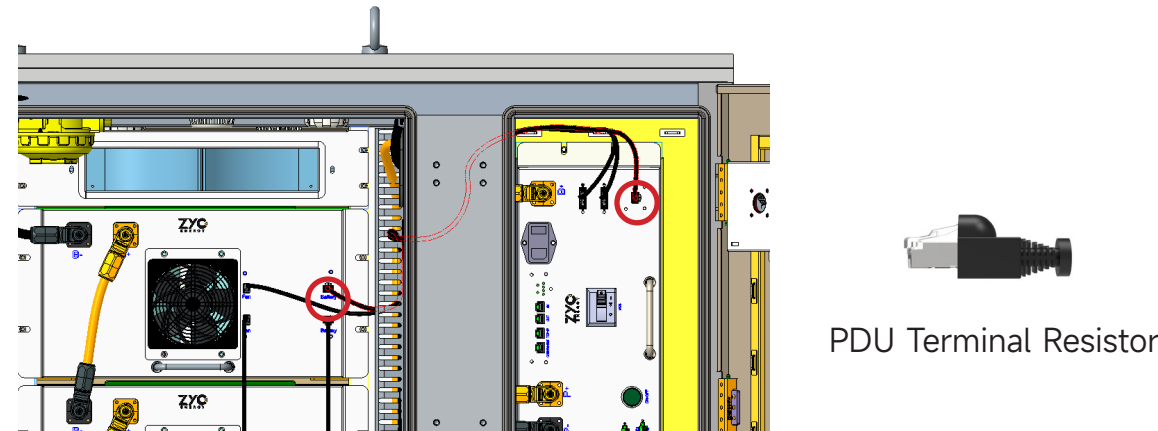
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## Installation

## Step 10

Connect Comm CableA from 'BATTERY COM' of PDU to 'COM 1' of battery on top

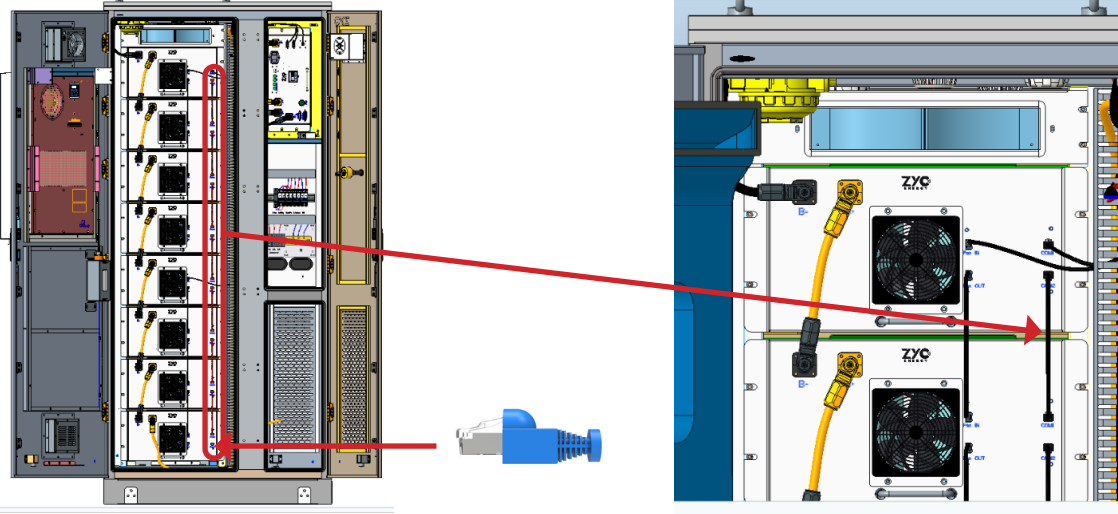
\*Insert PDU Terminal Resistor(Black one) to 'OUT' of PDU



## Step 11

Connect Comm CableB from 'COM 2' of battery on top to 'COM 1' of next battery, from 'COM 2' of 2nd battery from top to 'COM 1' of 3rd battery from top....

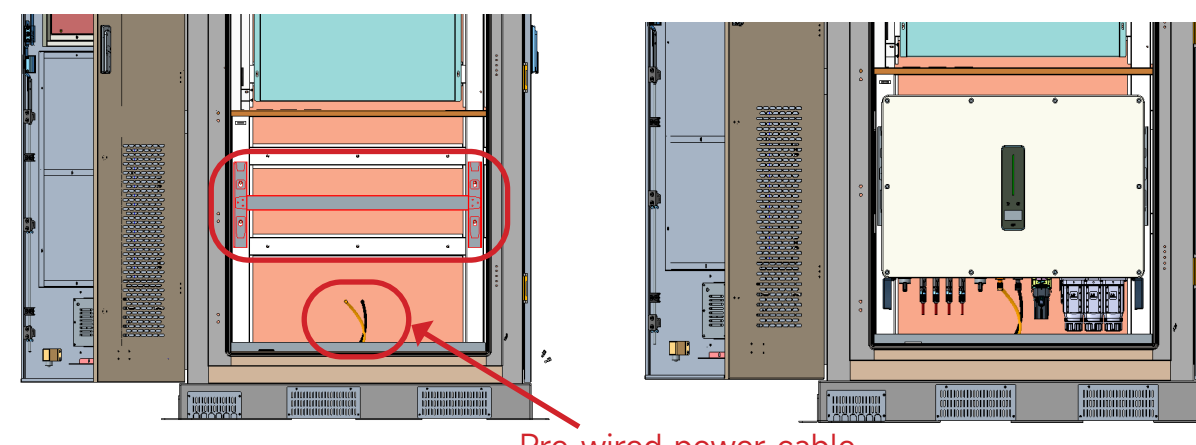
\*Insert Module Terminal Resistor(Blue one) to 'COM 2' of bottom battery.



## Step 12

Install the bracket for PCS as well as the PCS

\*Power Cable for PCS are also pre-wired, please connect from 'P+' and 'P-' of PDU to PCS



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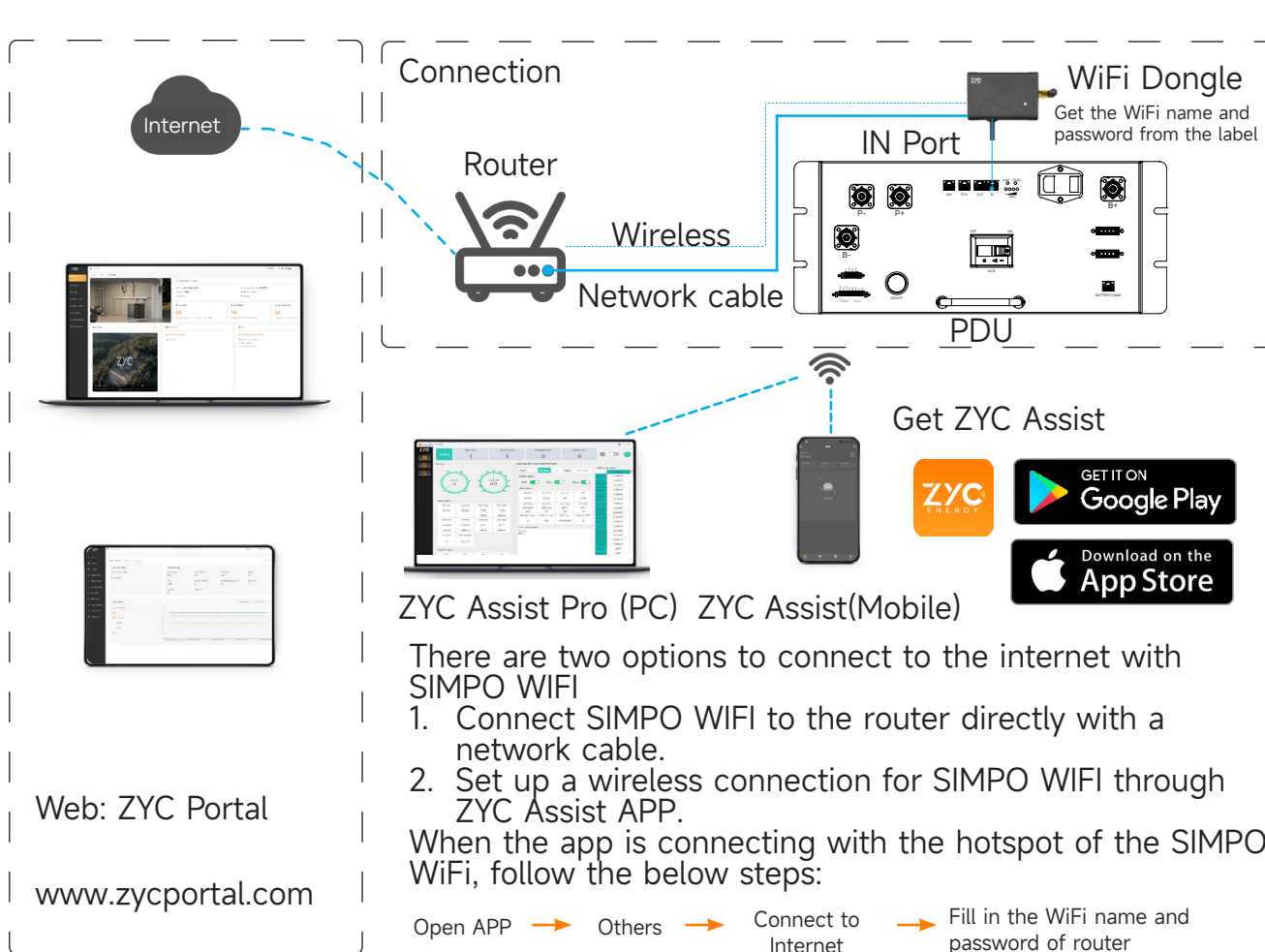
## Installation

## Step 16(Optional)

The reserved PE cable terminals are located at the bottom of the PCS holder. Connect if needed.



## Data Reading &amp; Remote Monitoring

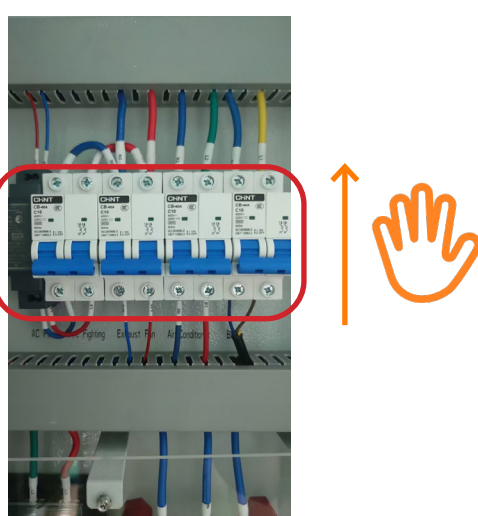


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## System Start Up

Before starting up the system, please make sure that all the cables are connected as the instructions in this document. Check all the MCBs and DC breakers(if any) are off before starting up the system.

Step1: Turn on the MCBs on AC side.



Step 2: Turn on the 'MCB' on PDU as ②

Step 3: Press the 'ON/OFF' button as ③

The 'RUN' and 'SOC' LED indicators will light up after the system starts working.



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## Black Start

SIMPO ProE is equipped with Black Start function to power up the PCS in off-grid scenarios. After start up the system, click the 'ON/OFF' button 3 times to Black Start.

\*NOTE: After black start is on, P+ and P- are both with high DC voltage and may lead to severe damage, please be cautious while operating.



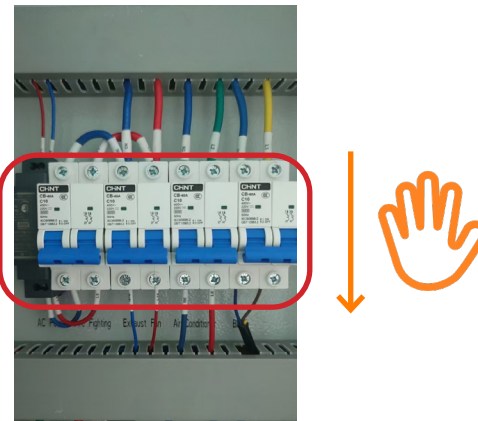
## System Shut Down

Step 1: Press and hold the 'ON/OFF' button for three seconds as ①

Step 2: The MCB on PDU will break automatically to ② state. But before next use, please push the handle to 'OFF' status as ③



Step 2: Turn off the MCBs on AC side

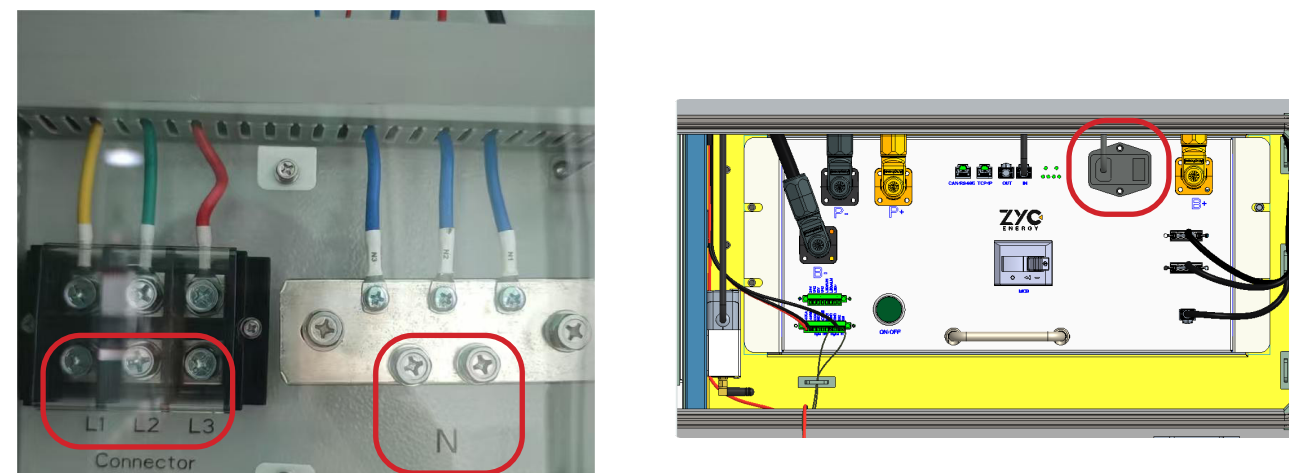


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## Installation

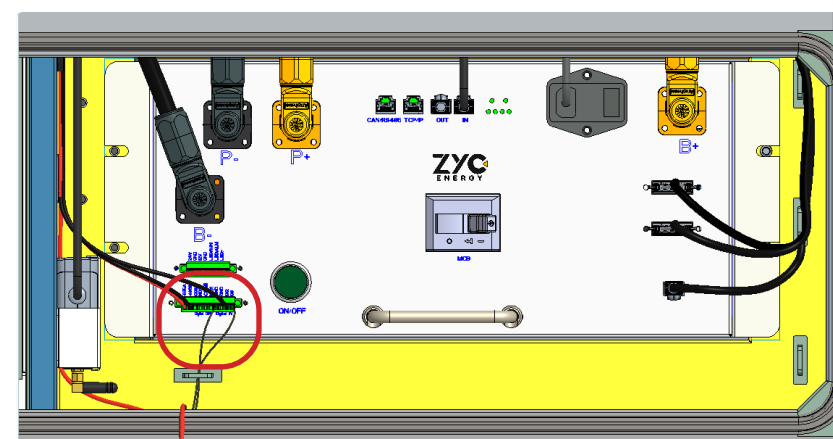
## Step 13

Connect the AC power supply to AC distribution aera inside the rack and plug in the pre-wired AC cable to PDU



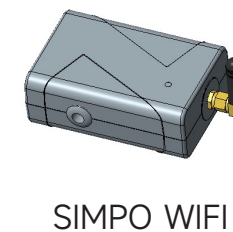
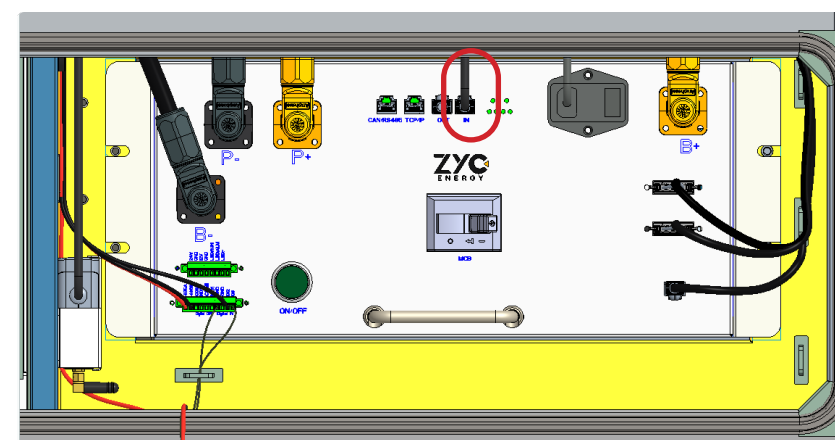
## Step 14

Connect the pre-installed 8-pin dry contact connector to the pluggable terminal block on PDU



## Step 15

Connect SIMPO WIFI to 'IN' port of PDU.



SIMPO WIFI

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## Contact us

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