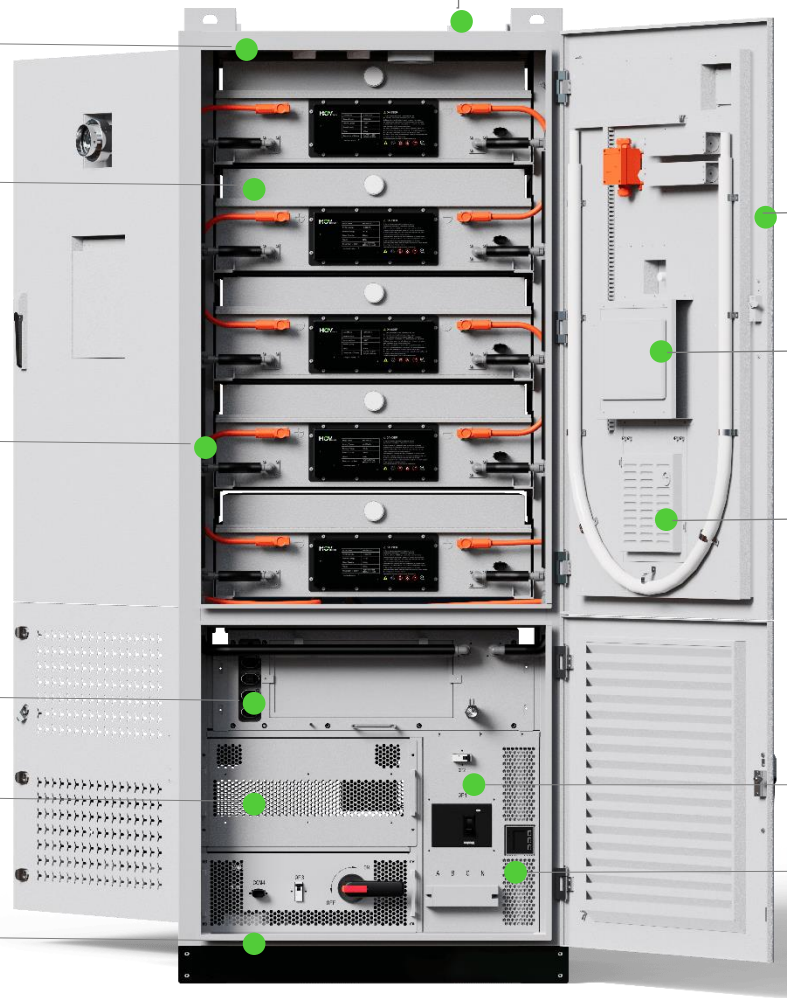
HoyUltra

100kW/215kWh
EMS, PCS and Battery All-in-One

- Outdoor Liquid-cooling
- Supporting parallel connecting, maxi 10 units
- Supporting on/off grid switching, maxi 3 units


WIFI
Fire Suppression System
Battery Pack
Extinguishing agent network with nozzles
ESCCU
Liquid-cooling Piping Network
Hydrogen Exhaust Inlet
Liquid-cooling controller
PCS
AC Switch
UPS
Battery Controller

Front View

Back View

ESCCU Introduction

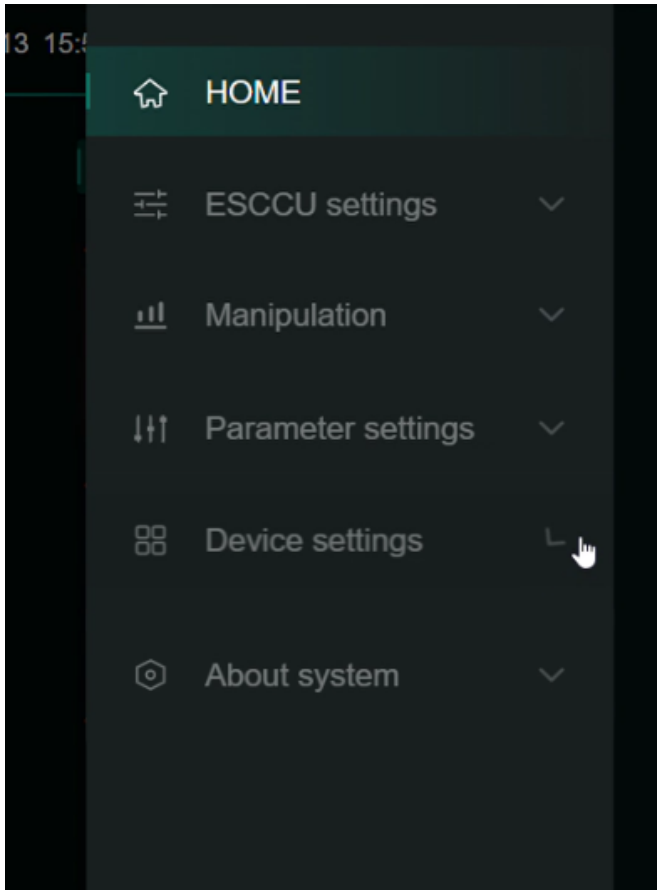
ESCCU(EMS), local application for HoyUltra

Home Page

Home Page info:

- Multiple Stack System Status
- Power Curve
- Stack topology
- Meter Info
- Warning Info

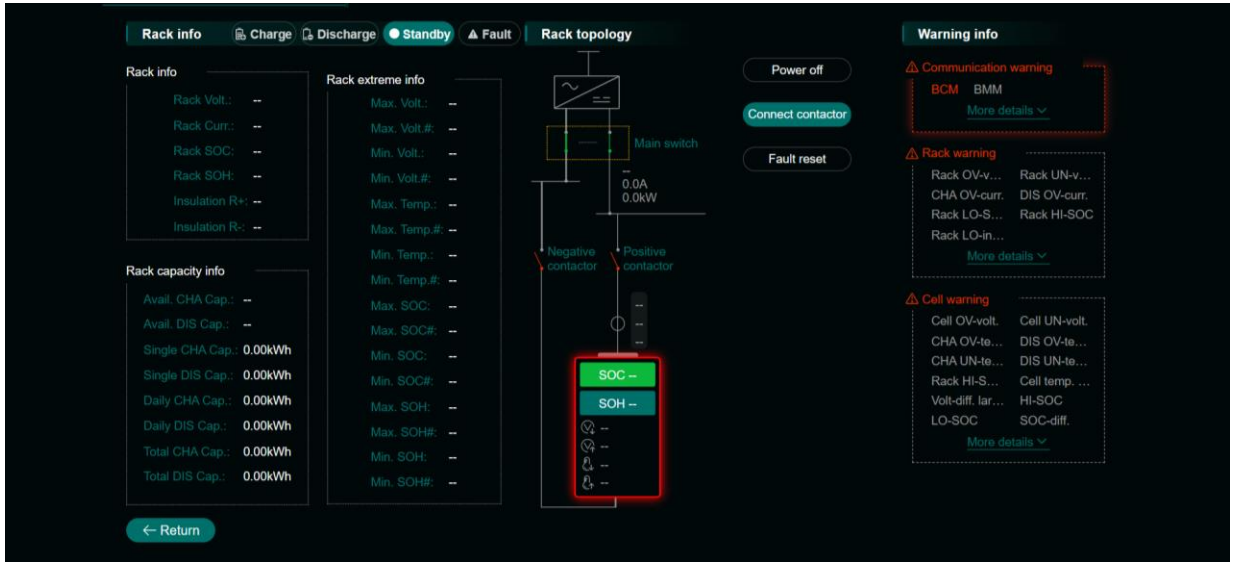
Main Menu


HOME
ESCCU settings
Manipulation
Parameter settings
Device settings
About system

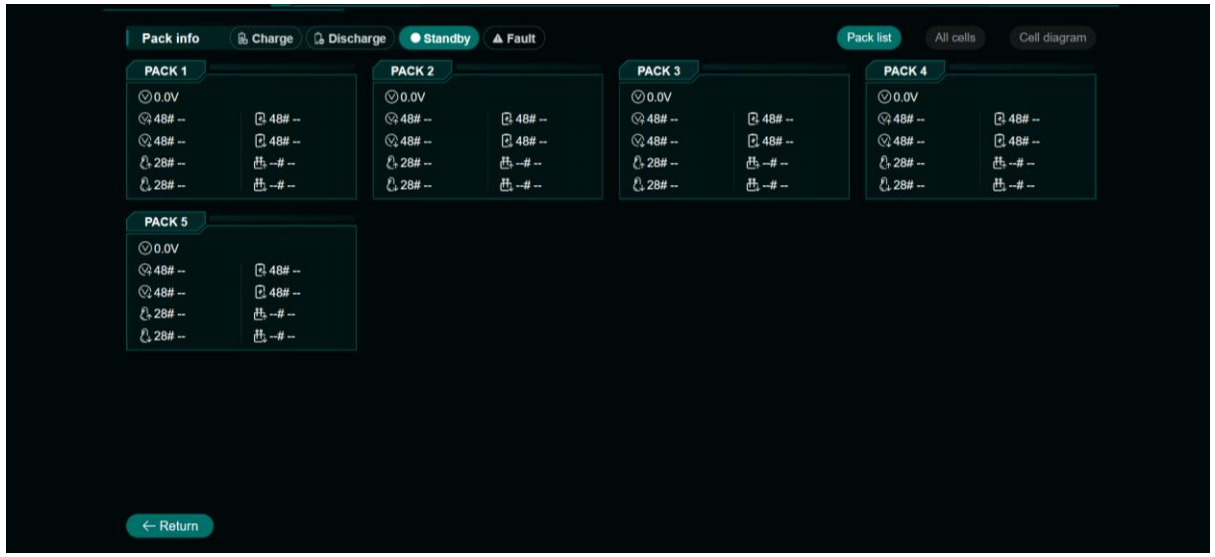

Home Page
ESCCU Settings
Manipulation
Parameter Settings
Device Setting
About System
Basic parameter
Control mode
Temp protection
Volt Protection
Demand protection
Anti-reverse Current
Protection Setting
Stack status
Rack info
Cell info
Extreme data
History data
Active warnings
Communication port
System parameters
Device port
Auxiliary control
Meter device
Master-slave setting
ESMU Setting
Password setting
Time setting
Logo setting
System info
Version update
Update log

Checking Information

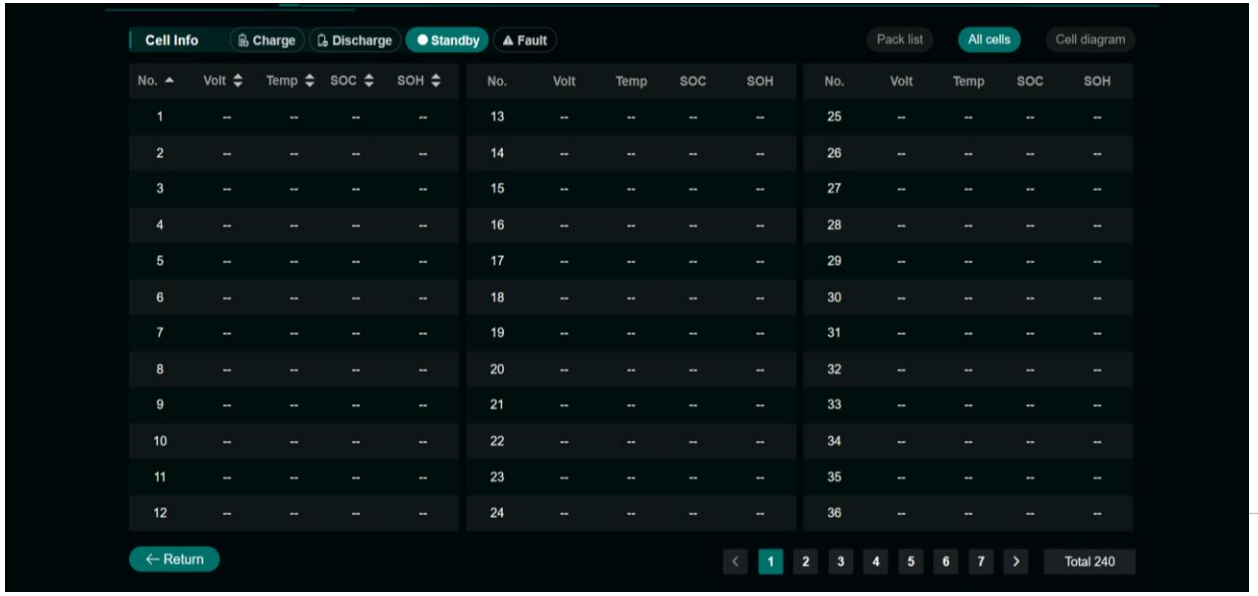
Rack Info



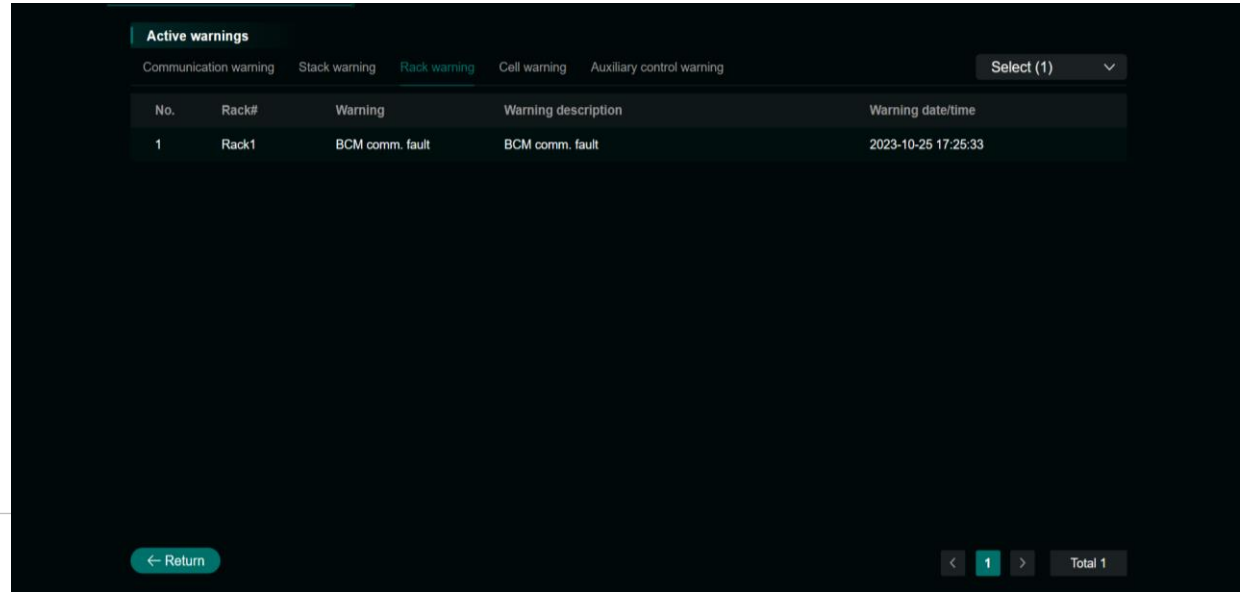
Pack Info



Cell Info

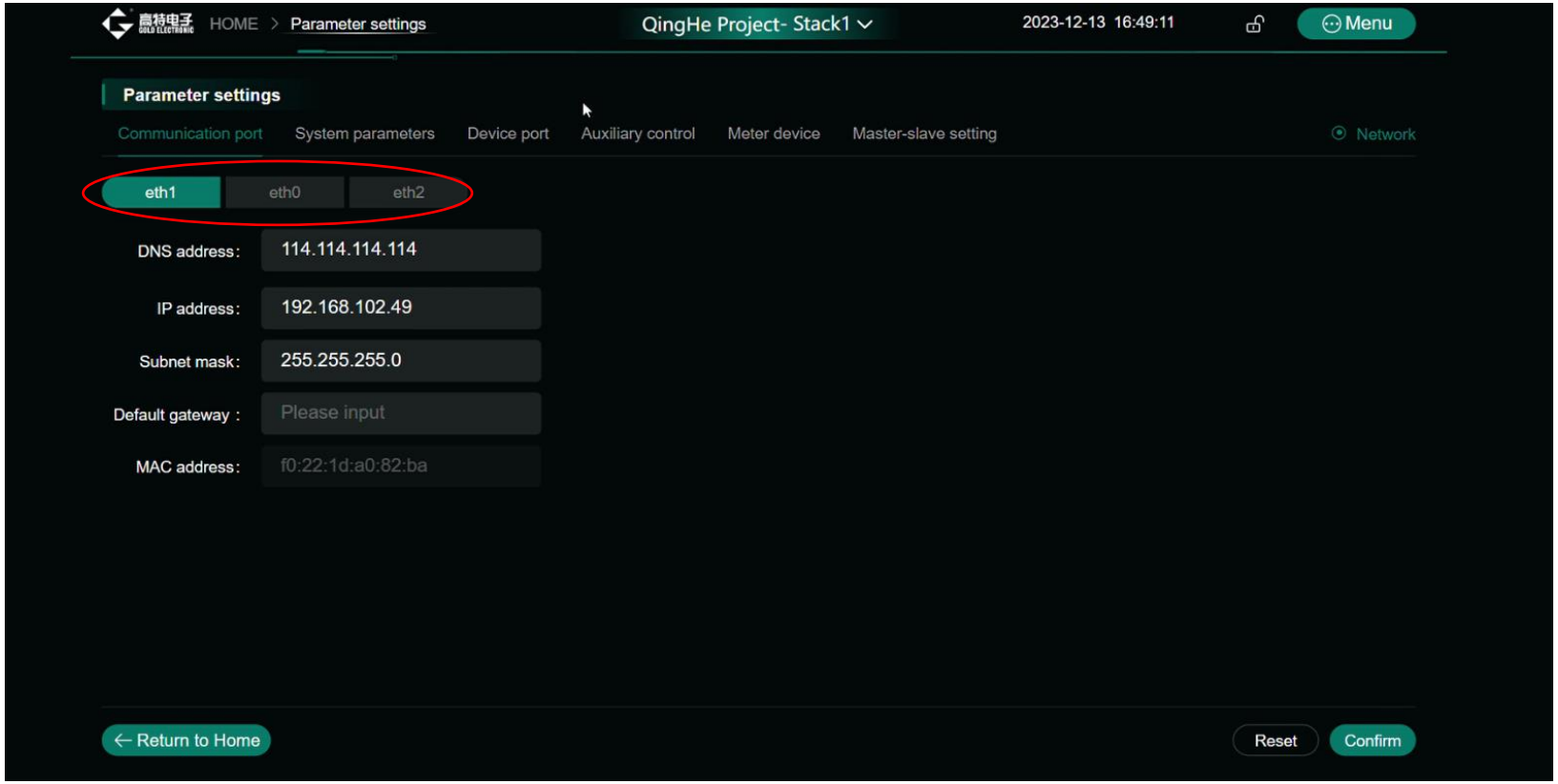


Warming



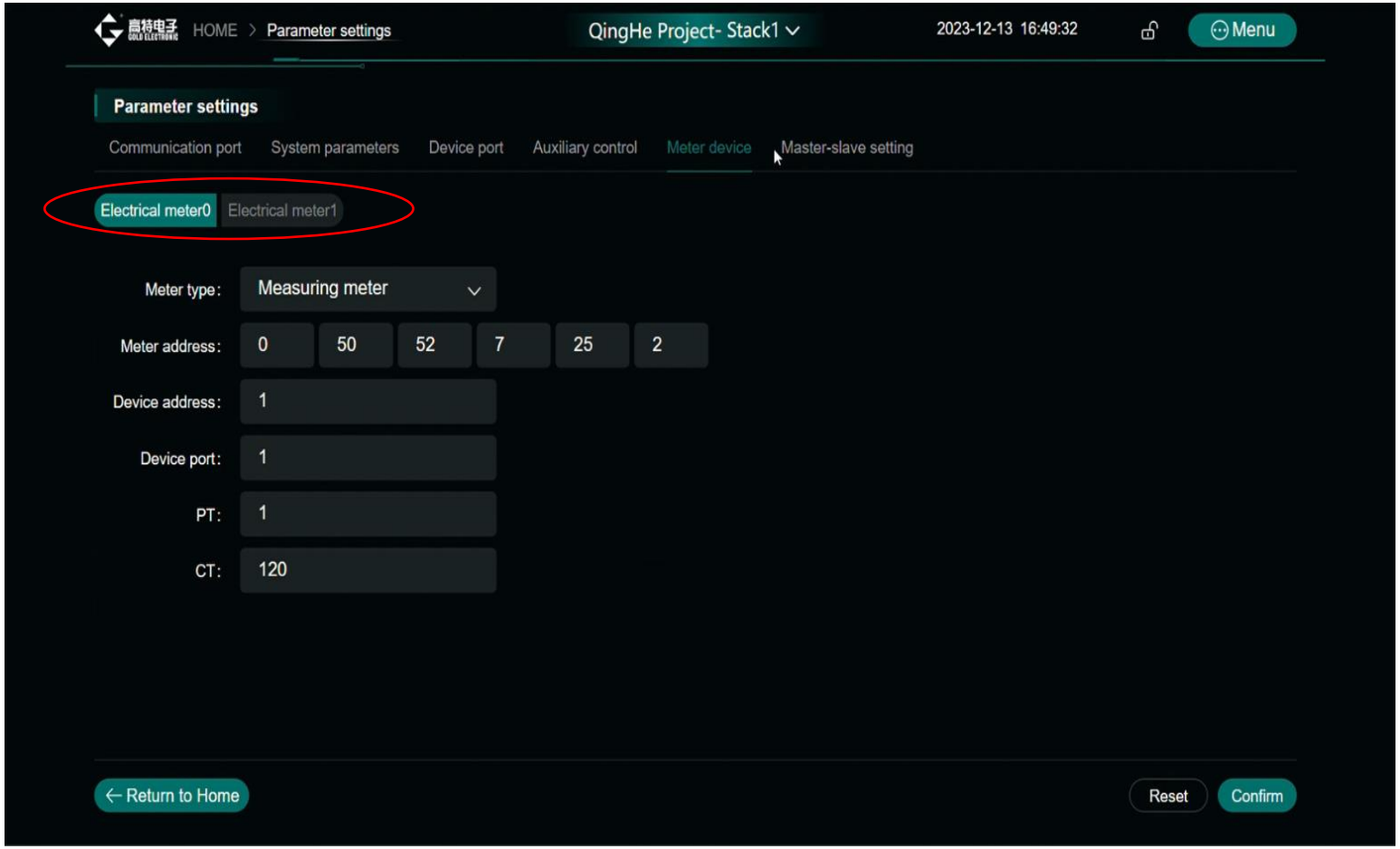
Communication setting： Menu→Parameter setting→Communication port

- Configure the right DNS address, IP address and Subnet mask of **PCS in eth1**
- Configure the right DNS address, IP address and Subnet mask of **PCS external communication in eth0**
- Configure the right DNS address, IP address and Subnet mask of **PCS in eth2**



Meter setting: Menu→Parameter setting→Communication port →Meter device

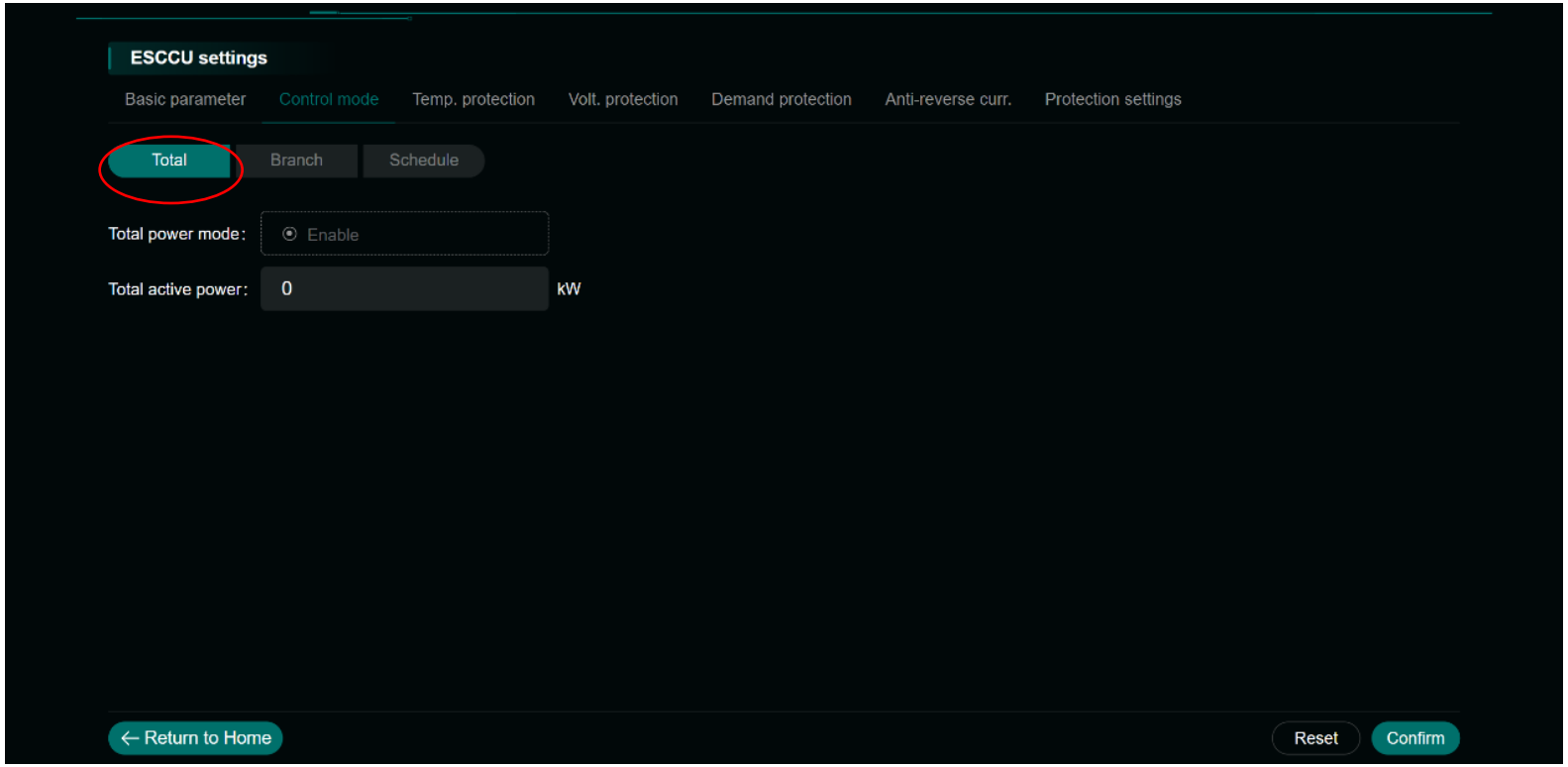
- Configure the Meter address of Metering meter in **Electrical meter0**
- Configure the Meter address of Anti-reverse meter in **Electrical meter1**(if custom requires it)



Charging/Discharging setting：Menu→ESCCU setting→Control mode

1. Total power setting

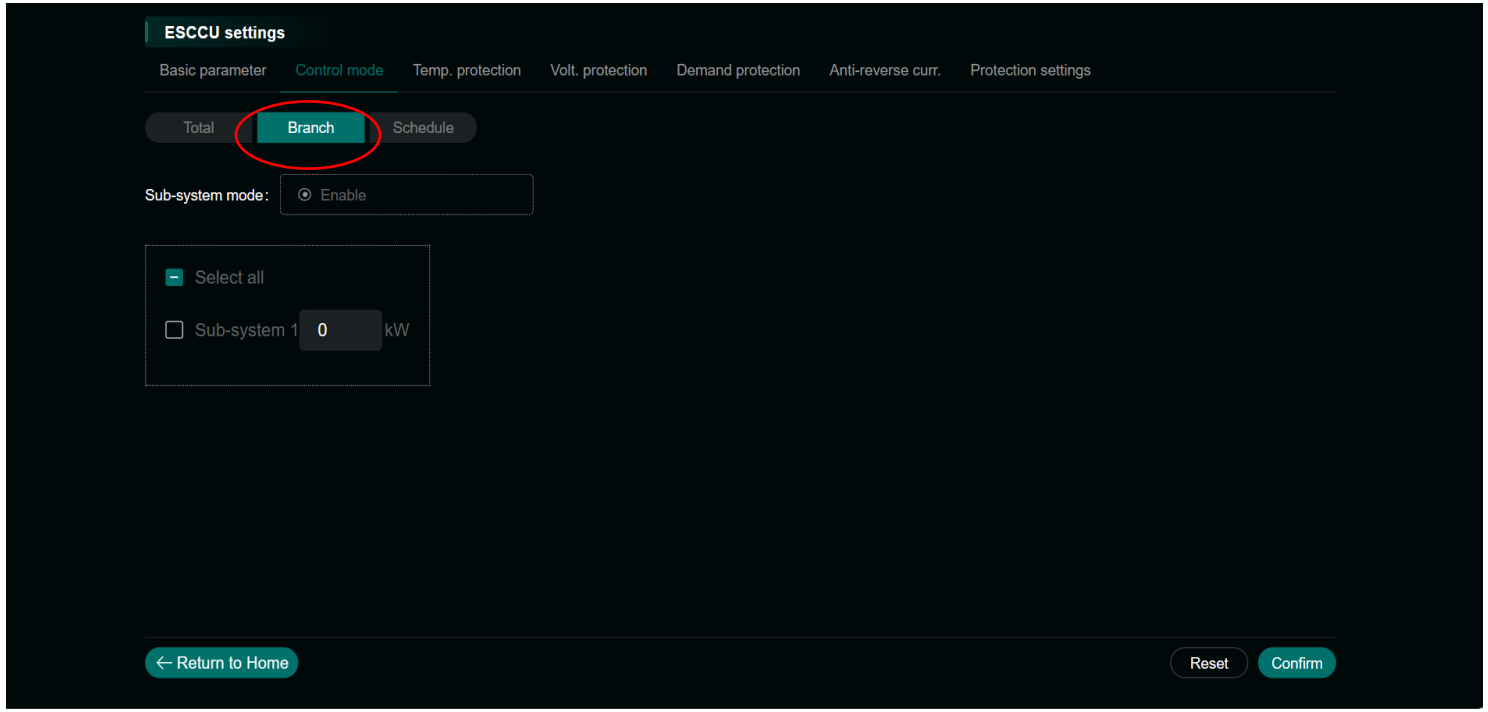
- The power is evenly distributed when multiple stacks are paralleled.
- When the power input a **positive** value, it is set to discharge.
- When it input a **negative** value, it is set to charge.
- After setting is completed, click “Confirm” to issue the power control to PCS.



Charging/Discharging setting：Menu→ESCCU setting→Control mode

2. Subsystem

- This step is not required for single cabinet system, but it is required for multiple cabinets.
- Individual rack can be configured to charge or discharge. When the power is set to a positive value, it is set to discharge.
- When it is set to a negative value, it is set to charge.
- After setting is completed, click “Confirm” to issue the power control to PCS.



Charging/Discharging setting： Menu→ESCCU setting→Control mode

3. Schedule Setting

- Set the required charging and discharging power according to the period and plan.
- It is suitable for long-term fixed charging and discharging requirements.