SOLINTEG DATALOGGER PARALLEL SOLUTION

——202408

INTEGRATE SOLAR INTELLIGENTLY

1 INTRODUCTION

The Solinteg RML-1000 is an intelligent energy management device specially designed for the inverter industry.

It achieves efficient use and management of energy by integrating inverters, batteries, and other devices into a single platform. RML-1000 can help users maximize energy utilization, reduce energy costs, and improve energy reliability and sustainability through data collection, analysis and optimization.

With the RML-1000, you can connect up to 90 on-grid inverters and 10 hybrid inverters, allowing owners to manage multiple solar plants simultaneously.

Solinteg Parallel Connection
——*With RML-1000*
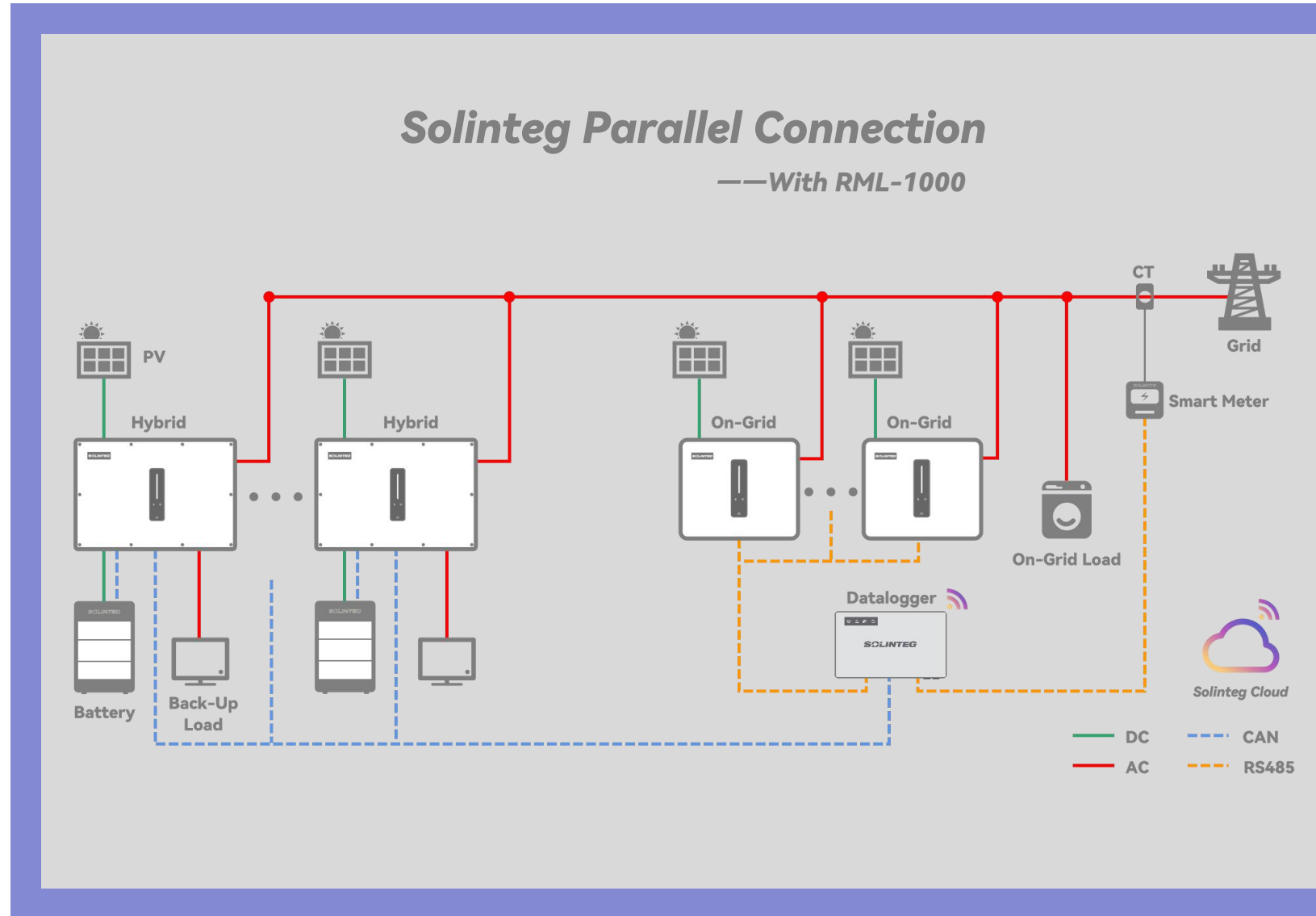
Multiple On-grid Inverters Parallel

Support up to 90 units on-grid inverter parallel connection

Energy Storage Plants Parallel

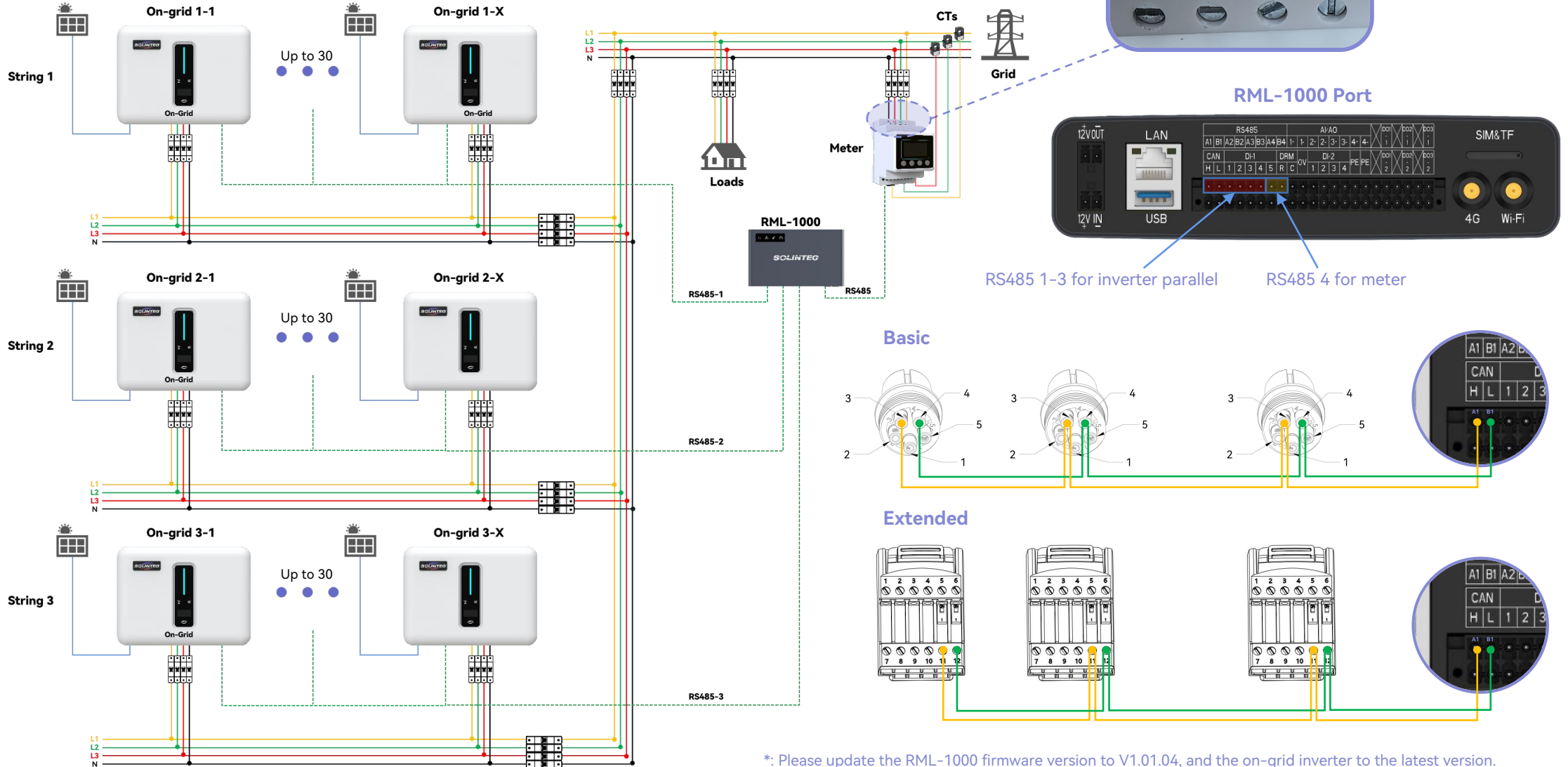Support up to 10 units hybrid inverter parallel connection

Mixed Plants Parallel

Support different types inverter parallel connection
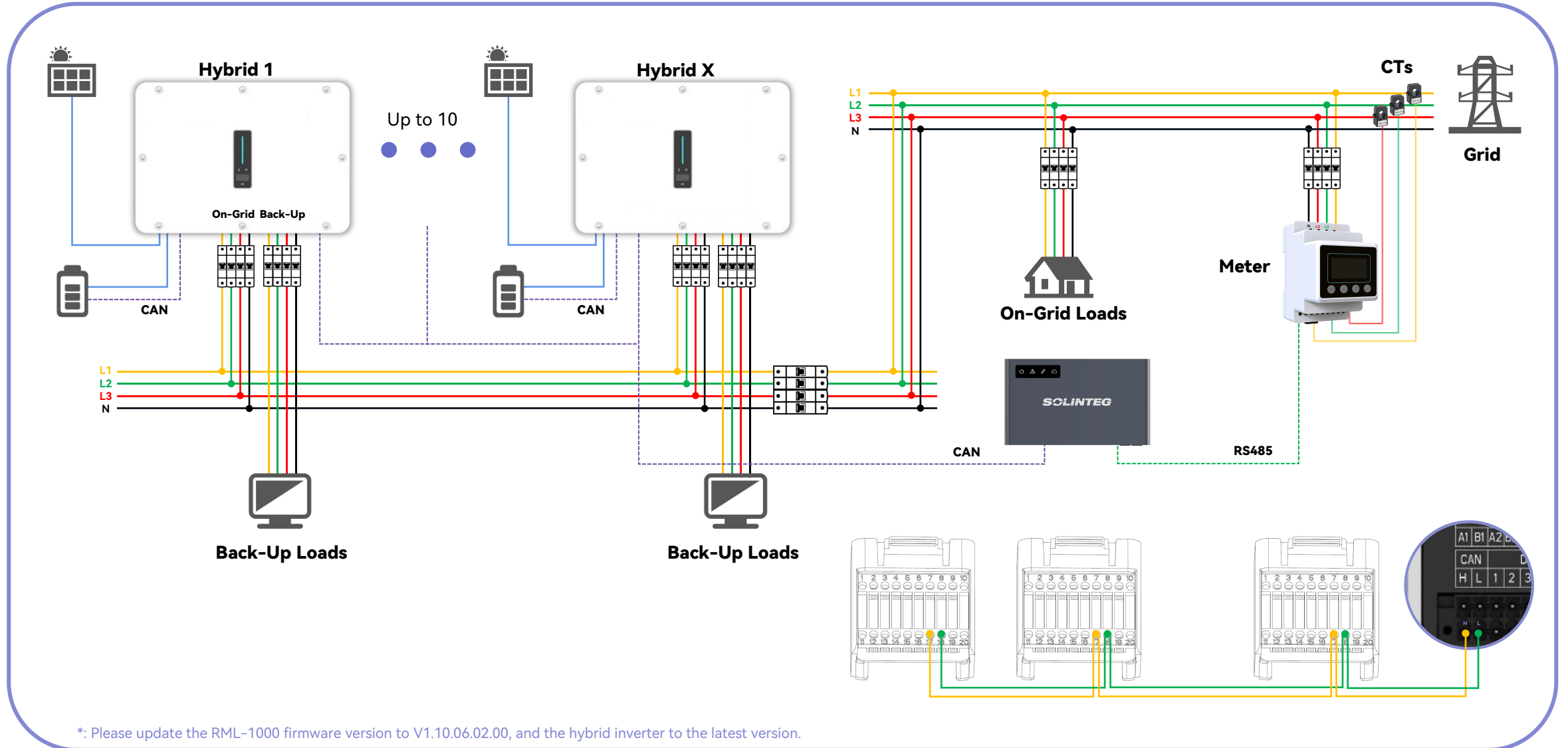
3 ON-GRID INVERTER

WIRING DIAGRAM

N   L3   L2   L1

RML-1000 Port

RS485 1-3 for inverter parallel

RS485 4 for meter

On-grid 1-1   On-grid 1-X

String 1

Up to 30

On-Grid   On-Grid

On-grid 2-1   On-grid 2-X

String 2

Up to 30

On-Grid   On-Grid

On-grid 3-1   On-grid 3-X

String 3

Up to 30

On-Grid   On-Grid

L1
L2
L3
N

CTs

Grid

Meter

Loads

RML-1000

RS485-1   RS485

RS485-2

RS485-3

Basic

3   4
2   1   5

3   4
2   1   5

3   4
2   1   5

A1 B1 A2 B
CAN   D
H L 1 2 3

Extended

1 2 3 4 5 6

7 8 9 10 11 12

1 2 3 4 5 6

7 8 9 10 11 12

1 2 3 4 5 6

7 8 9 10 11 12

A1 B1 A2 B
CAN   D
H L 1 2 3

*: Please update the RML-1000 firmware version to V1.01.04, and the on-grid inverter to the latest version.

HYBRID INVERTER
WIRING DIAGRAM

Hybrid 1

Up to 10

Hybrid X

On-Grid Back-Up

CAN

CAN

CTs

Grid

L1
L2
L3
N

Meter

On-Grid Loads

L1
L2
L3
N

SOLINTEG

CAN

RS485

Back-Up Loads

Back-Up Loads

A1 B1 A2

CAN
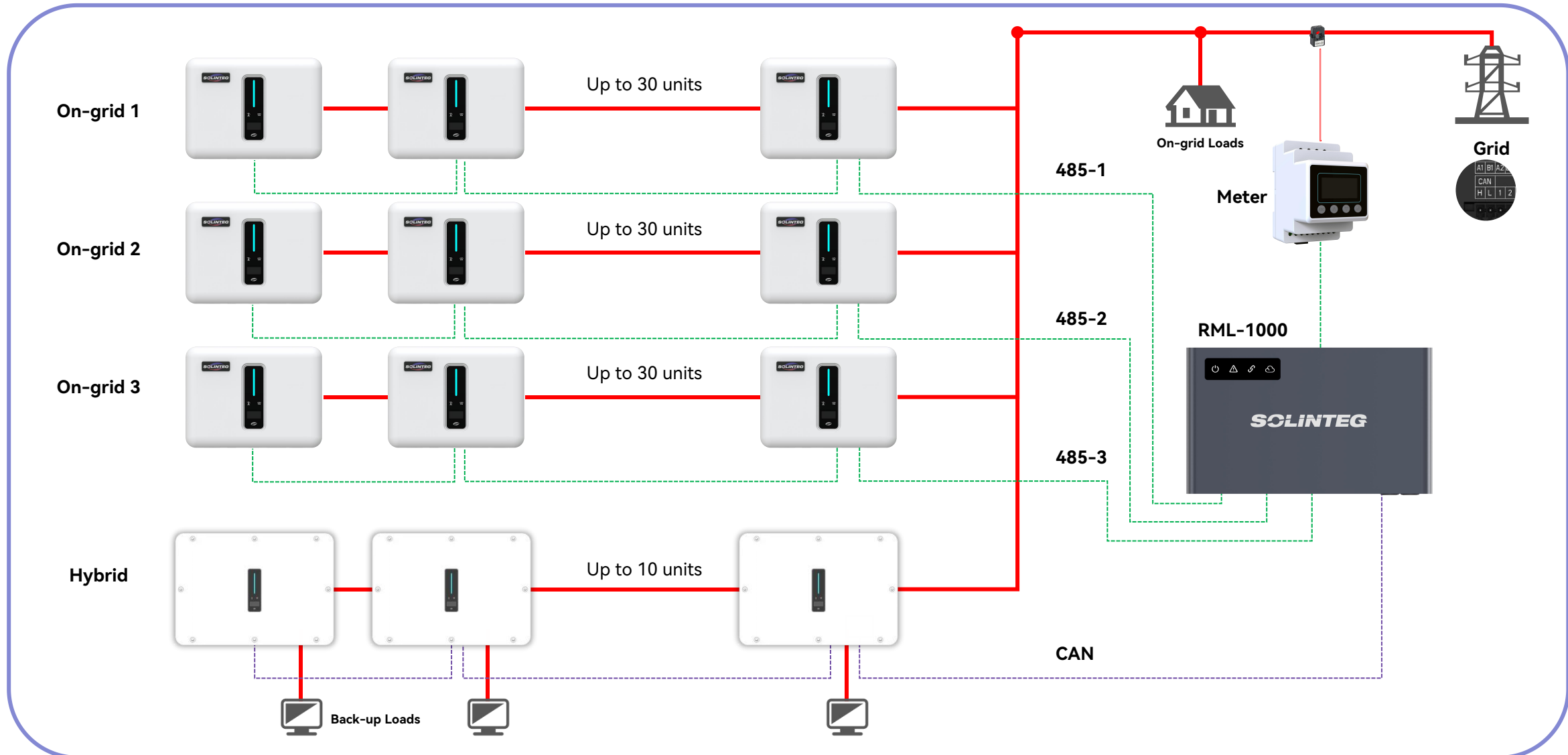
H L 1 2 3

*: Please update the RML-1000 firmware version to V1.10.06.02.00, and the hybrid inverter to the latest version.
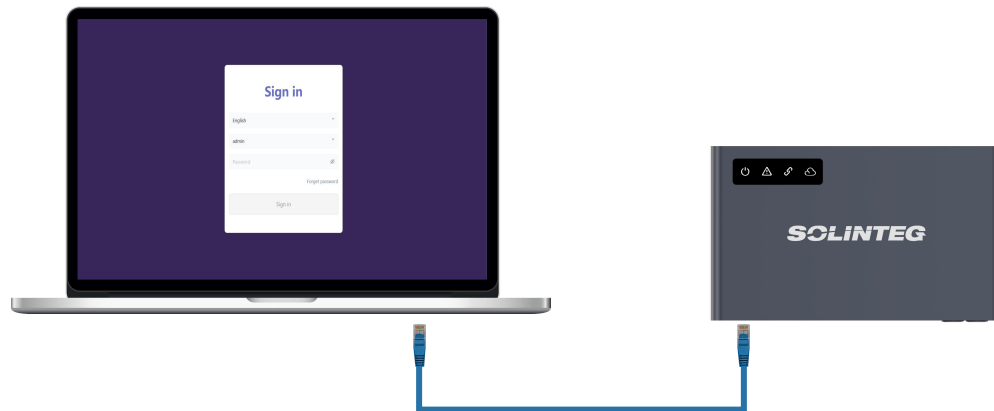
MIXED INVERTER

WIRING DIAGRAM

On-grid 1 — Up to 30 units

On-grid 2 — Up to 30 units

On-grid 3 — Up to 30 units

Hybrid — Up to 10 units

485-1

485-2

485-3

CAN

On-grid Loads

Grid

Meter

RML-1000

Back-up Loads

6 CONFIGURATION
WIRING & PREPARATION

Step1:

Connect your PC to RML-1000 by network cable.

Step2:

Set your PC IP address as below.

Path: *Settings / Network and Internet / Ethernet*

Manual Operation

IP Address: 18.18.18.X (X: 2-254)

Subnet Mask: 255.255.255.0

Gateway: 18.18.18.1

DNS: 8.8.8.8

OFF

CONFIGURATION

SIGNIN & GUIDE
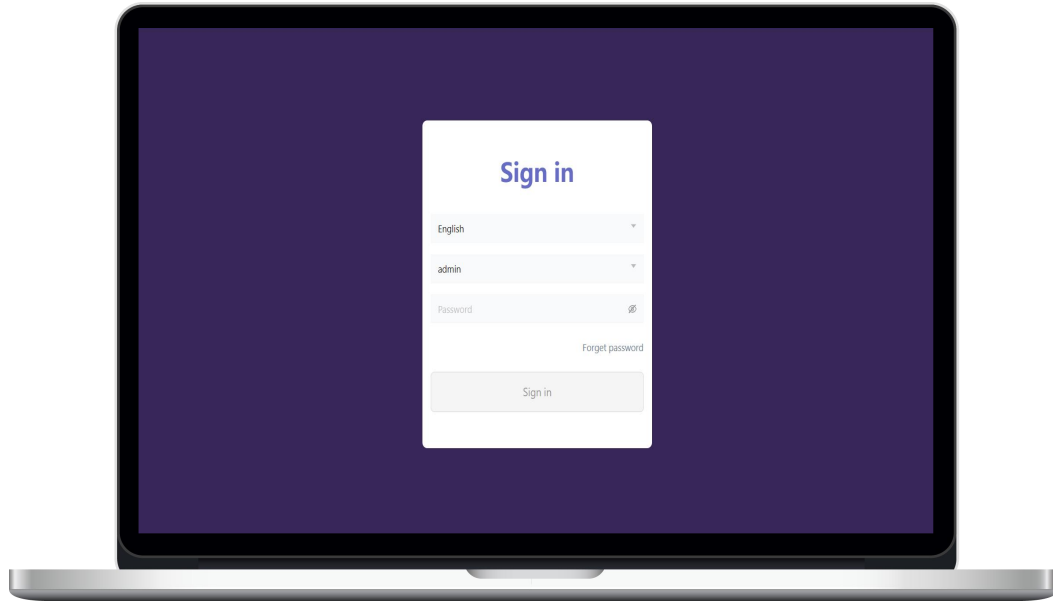
Sign in:

- Enter **18.18.18.18** on your browser.
- Select the language and enter the password. The password is the device check code on the nameplate.
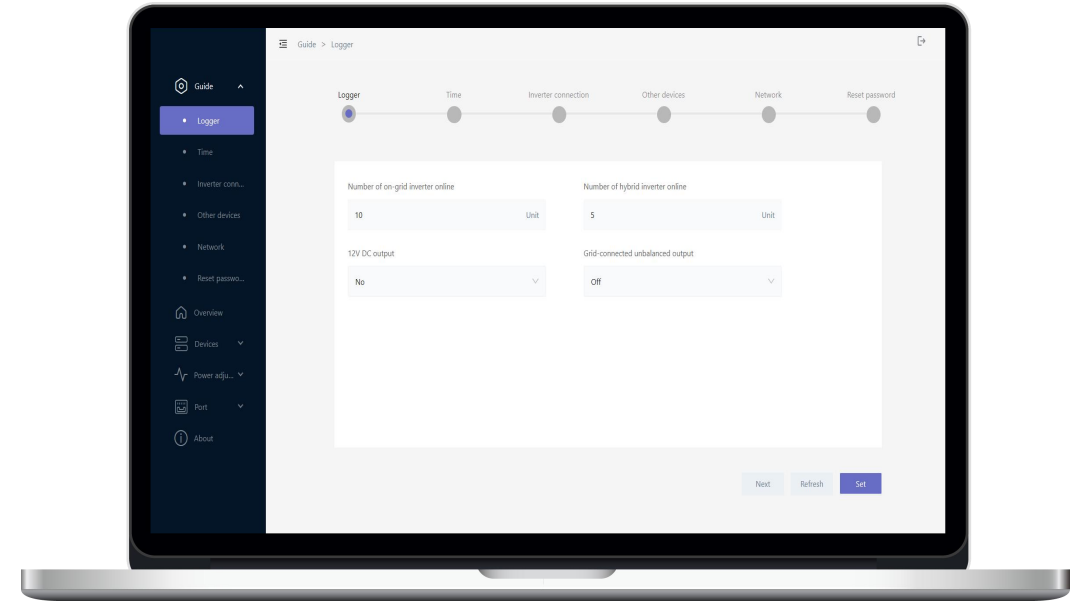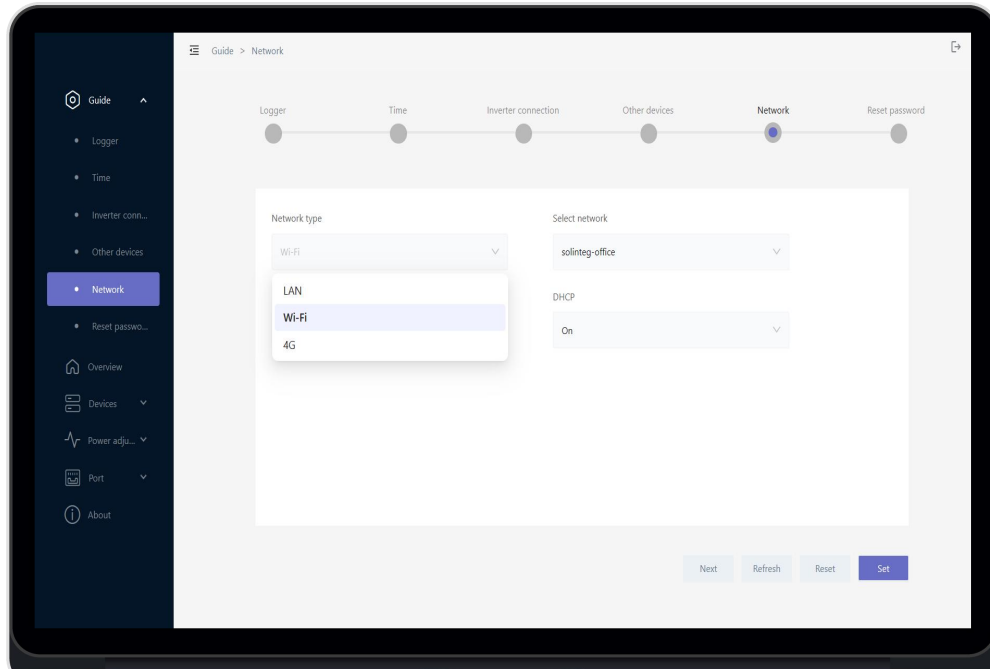
Guide:

For the first time configuration, please follow the guide order.

Incorrect configuration order may cause data error.
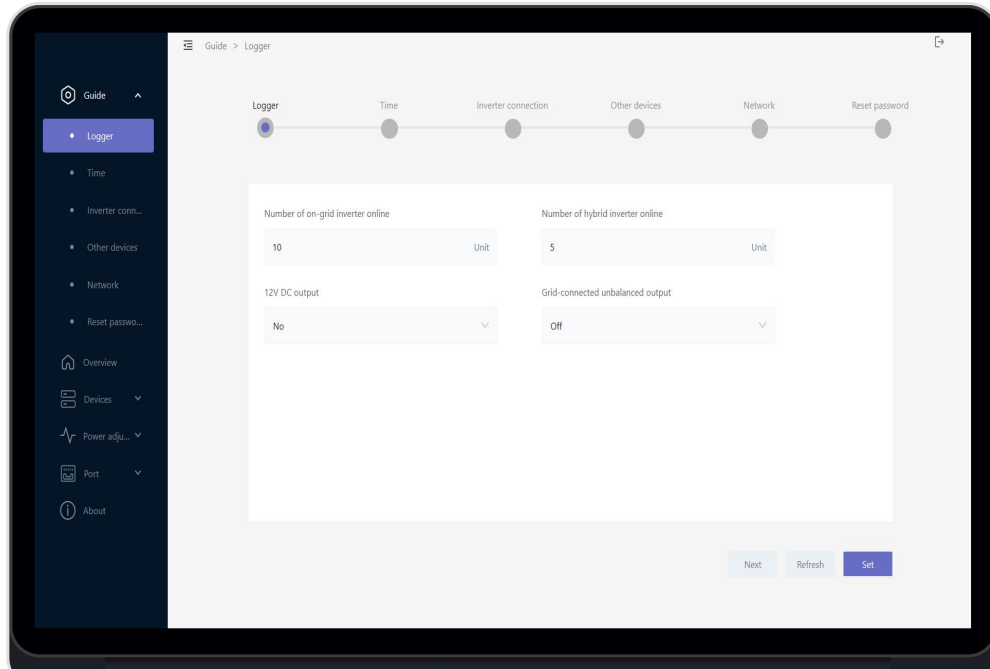
6 CONFIGURATION

SET THE NETWORK
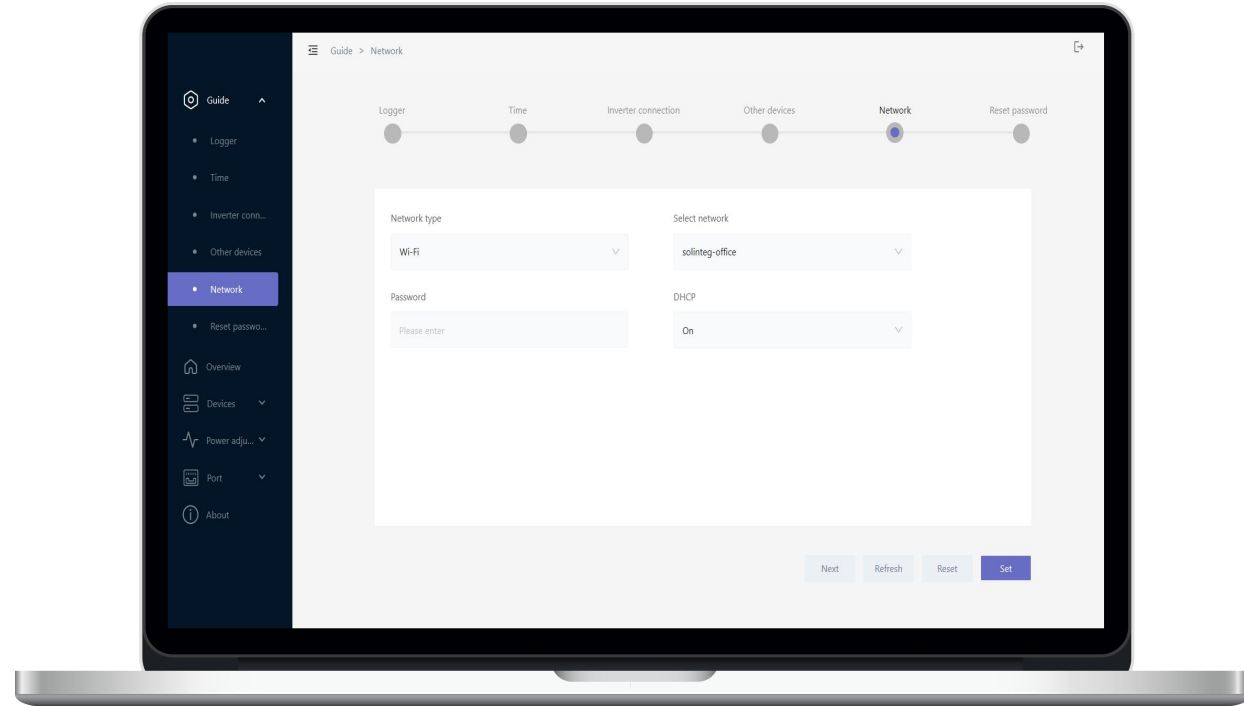
Network:

- Choose your network type: 4G/LAN/Wifi.

- If you are using the LAN, please reconnect the cable to RML-1000 after the configuration.
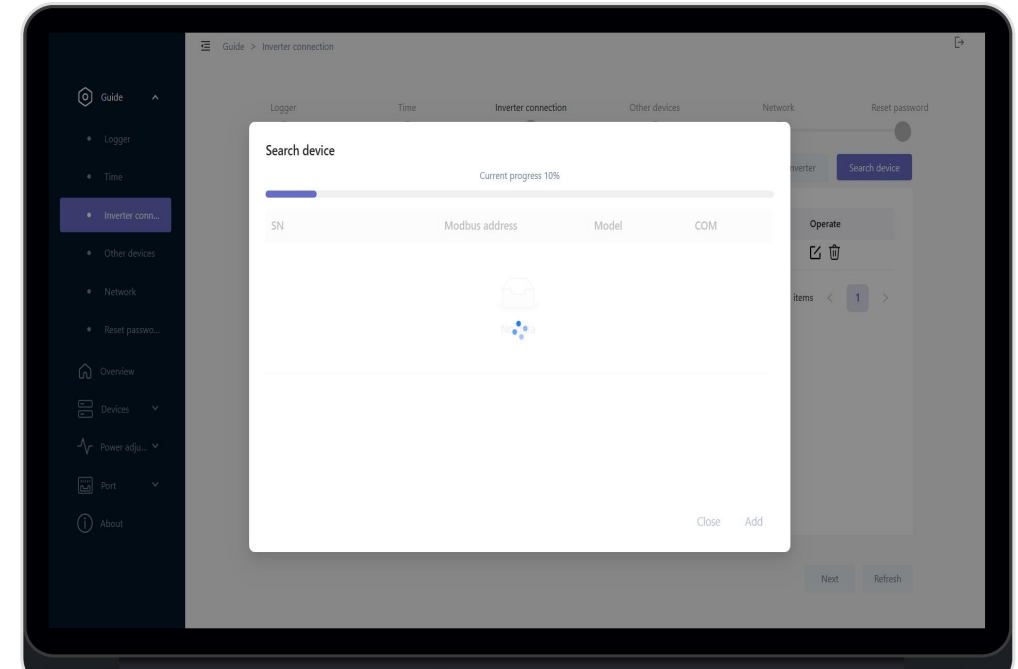
Step 1:

Enter the on-grid or hybrid inverter number you connected to the datalogger on the 'Logger' page.
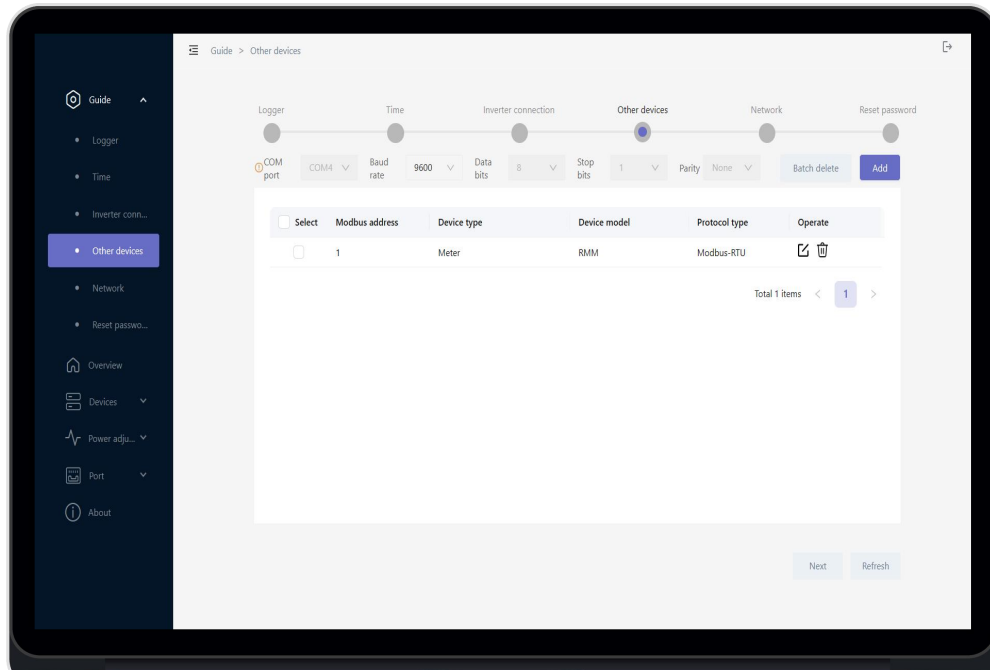
Step 2:

Click the 'Search Device' button at the inverter connection page. Add them into the logger. The logger will search the inverter and distribute the address automatically.
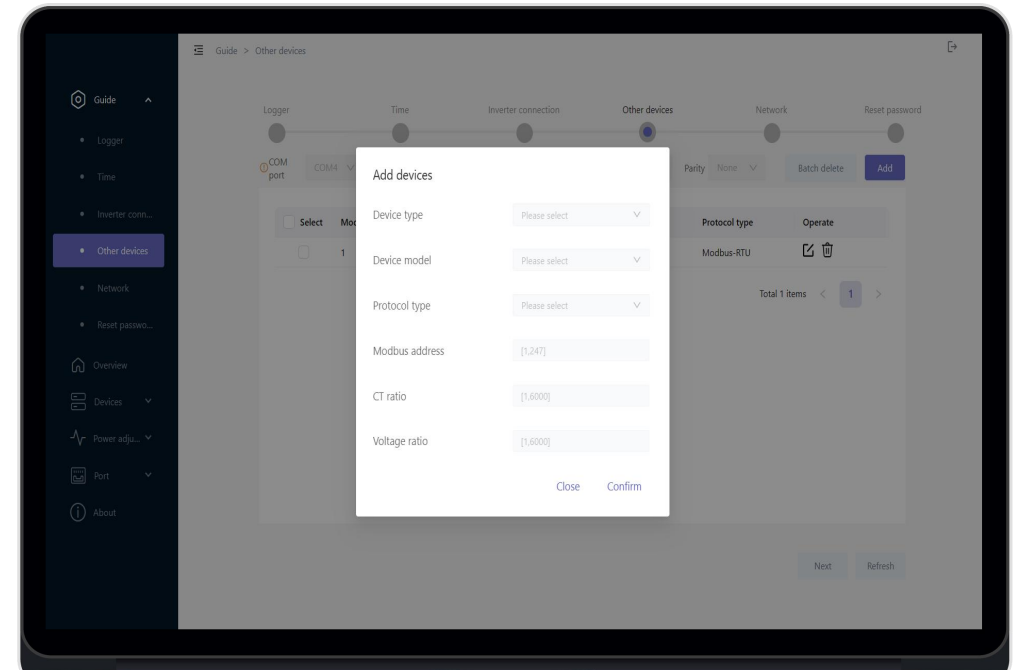
Step 1:

Click the 'Add' button at the other devices page.

Step 2:

Input the info at the configuration page. The meter modbus address is fixed to 1.

END
Visit Solinteg website to find out more

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