

## How to set Ethernet communication on a new inverter

REFUso1 100K

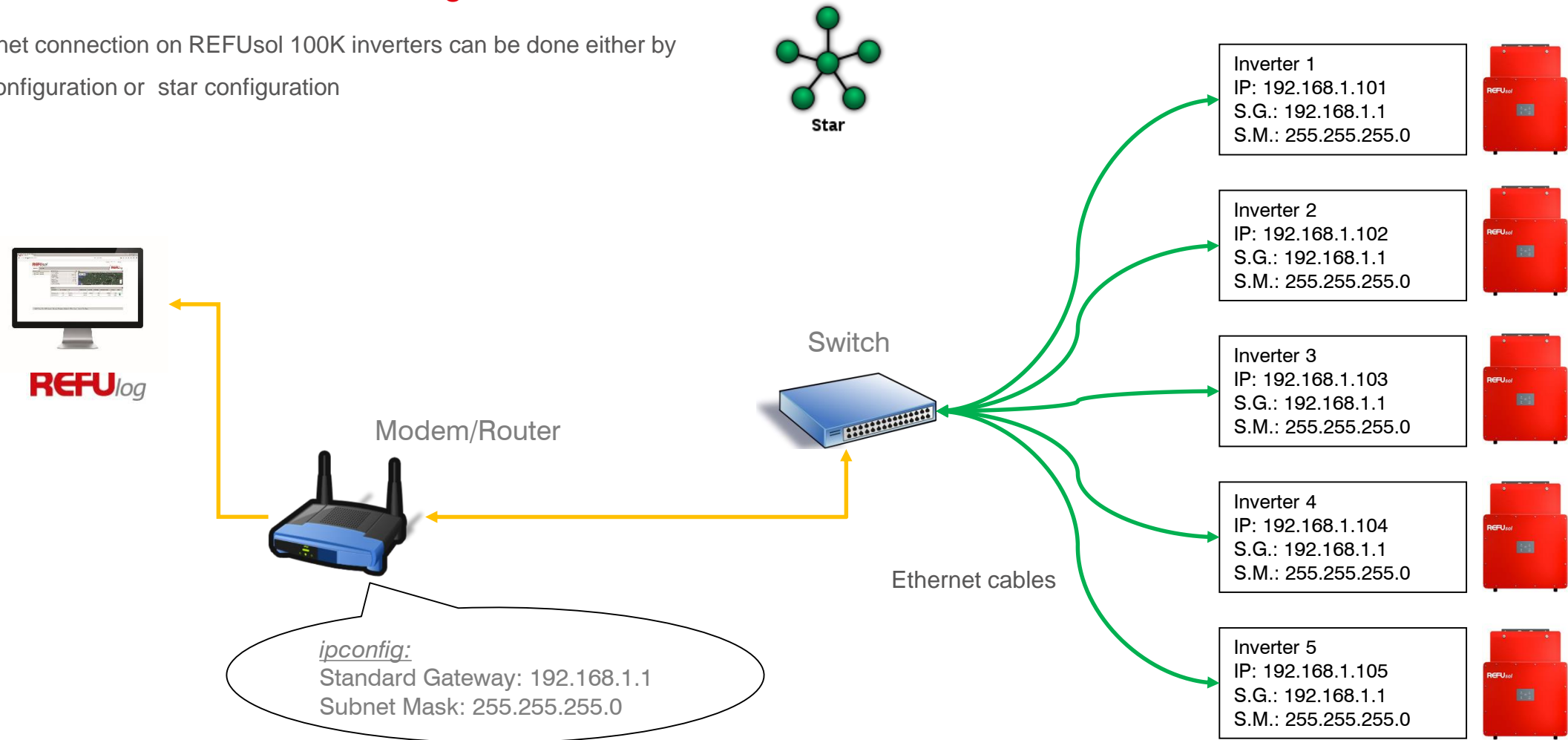
REFUstore 50/88K

by using REFUset Application via Bluetooth<sup>®</sup> connection



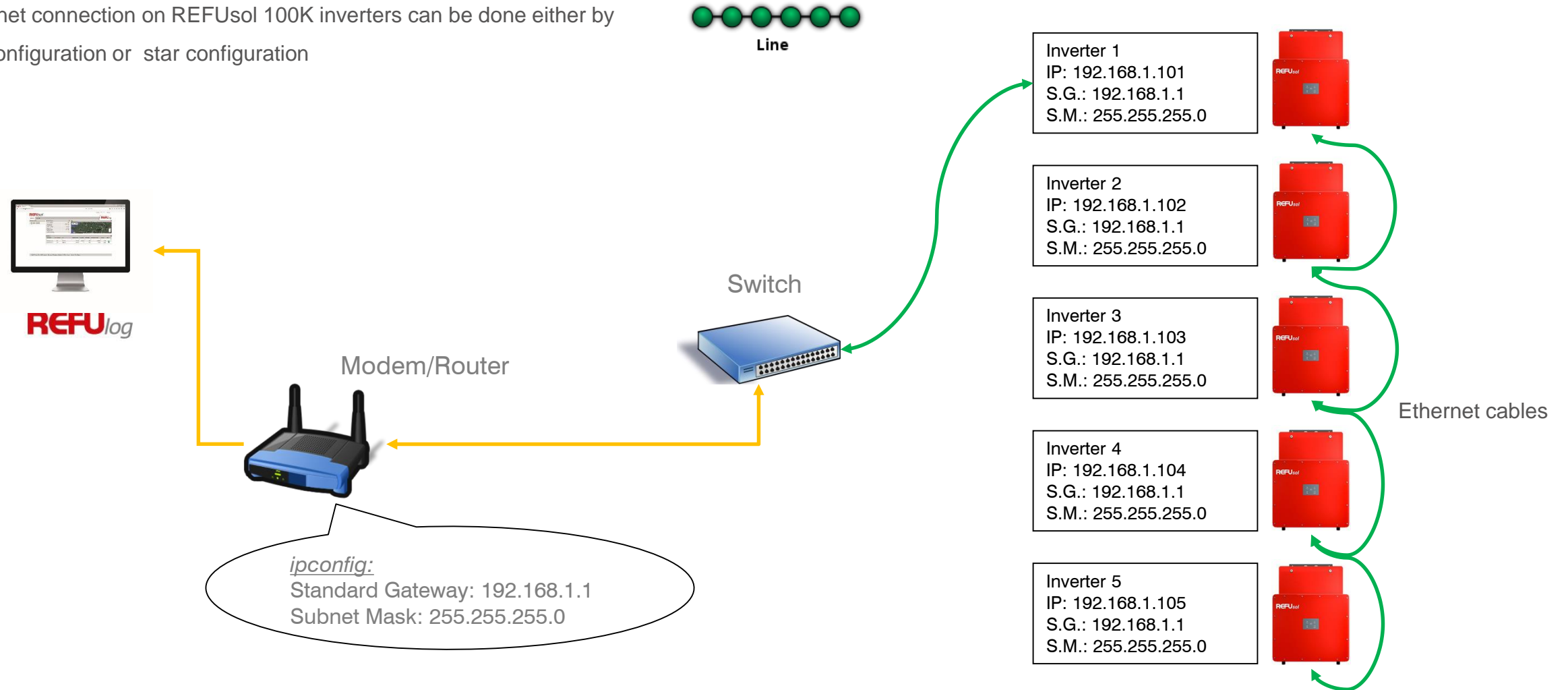
## Ethernet installation – Star Configuration

Ethernet connection on REFU<sup>sol</sup> 100K inverters can be done either by line configuration or star configuration



## Ethernet installation – Line Configuration

Ethernet connection on REFU sol 100K inverters can be done either by line configuration or star configuration



## Download REFUset application (iOS or Android)

Visit App Store or Play Store and Download REFUset app for your mobile or tablet.



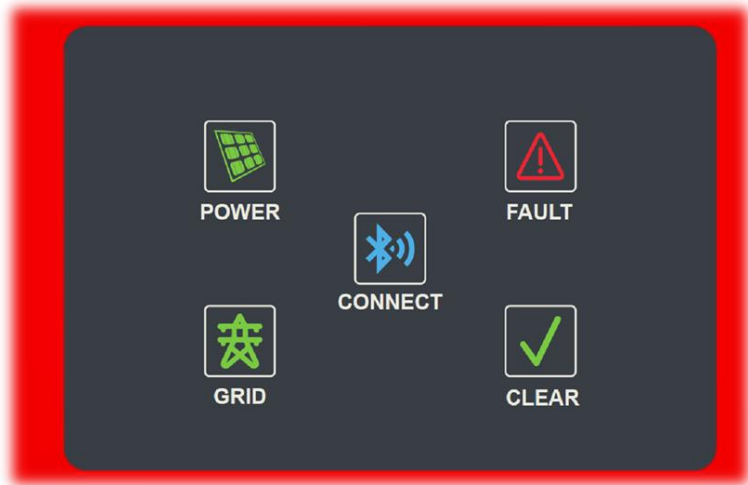
**REFUset**

REFU Elektronik GmbH

Enable Bluetooth communication on your device.



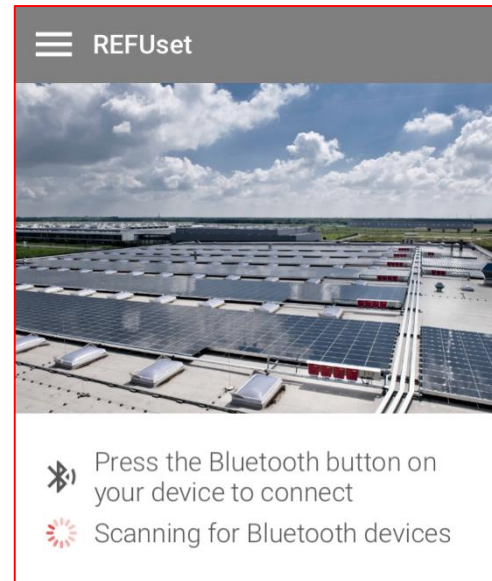
## Connect your mobile to inverter



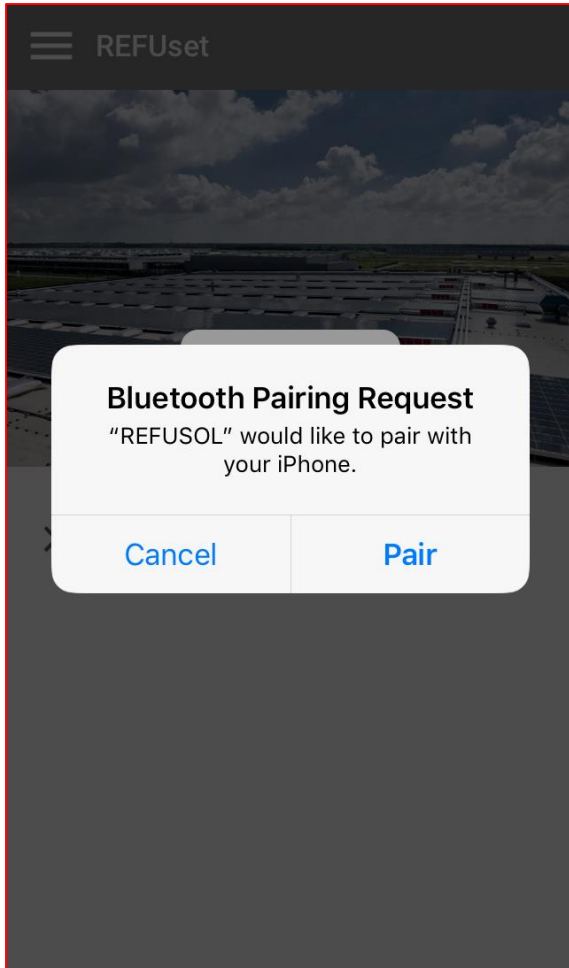
Once you are ready, approach inverter and press the Bluetooth Connect icon.  
Icon will start blinking.

Launch REFUset app on your mobile.

Application will scan for available inverters.



## Connect your mobile to inverter

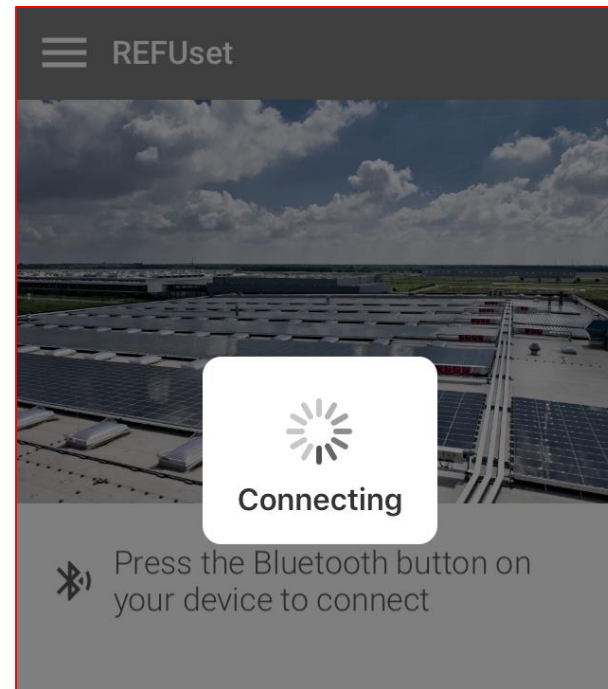


You will be requested to pair your mobile with inverter.

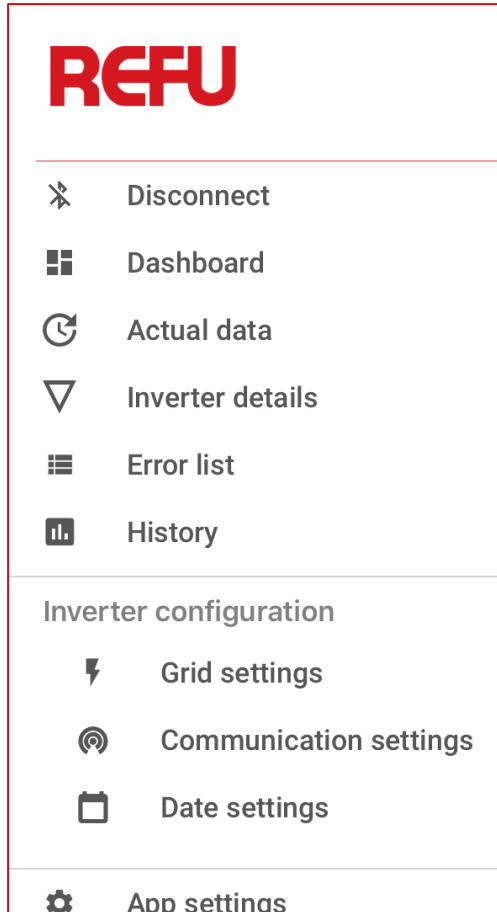
Select “Pair”.

Then your mobile will connect to inverter.

Bluetooth Connect icon will become stable blue.



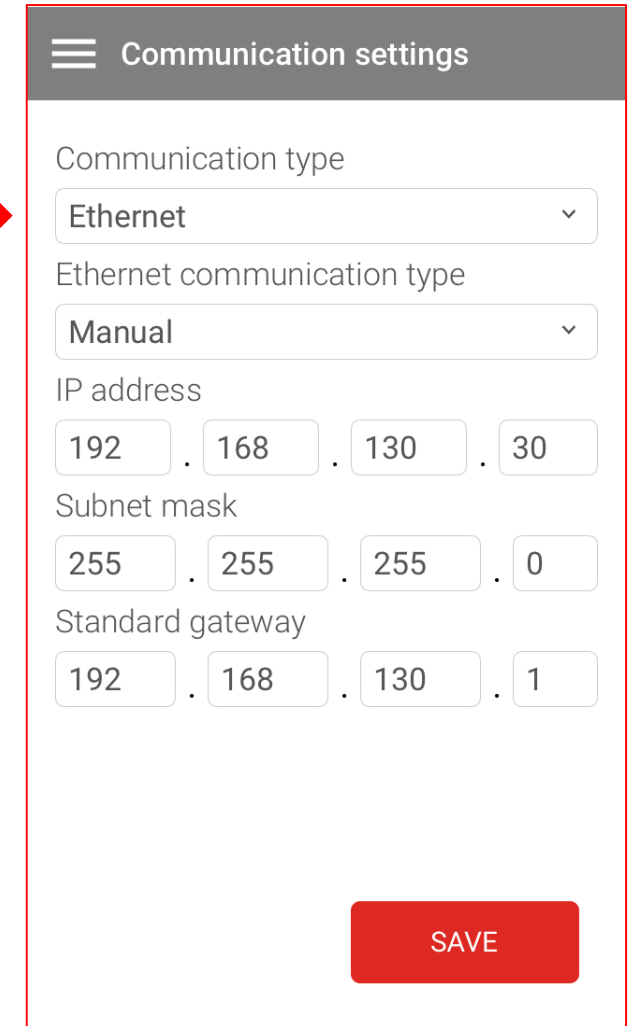
## Ethernet set up



The screenshot shows the main menu of the REFU application. At the top is the REFU logo. Below it are several menu items: Disconnect, Dashboard, Actual data, Inverter details, Error list, and History. A section titled 'Inverter configuration' contains Grid settings, Communication settings, and Date settings. At the bottom is App settings. A red arrow points to the 'Communication settings' option.

At the main window navigate to Communication settings and select:

- Communication type → Ethernet
- Ethernet communication type → Manual



The screenshot shows the 'Communication settings' screen. It has a title bar with a hamburger menu icon and the text 'Communication settings'. The settings are as follows: 'Communication type' is set to 'Ethernet'; 'Ethernet communication type' is set to 'Manual'; 'IP address' is 192.168.130.30; 'Subnet mask' is 255.255.255.0; and 'Standard gateway' is 192.168.130.1. A red 'SAVE' button is at the bottom right. A red arrow points to the 'Communication type' dropdown.



## Ethernet set up

### Communication settings

Ethernet

Ethernet communication type

Manual

IP address

192 . 168 . 1 . 101

Subnet mask

255 . 255 . 255 . 0

Standard gateway

192 . 168 . 1 . 1

1 2 3

4 5 6

7 8 9

, 0

Insert:

- IP address → a unique address for each inverter
- Subnet mask → same as router / same to all inverters
- Standard gateway → same as router / same to all inverters

At the end press "Save"



### Communication settings

Communication type

Ethernet

Ethernet communication type

Manual

IP address

192 . 168 . 1 . 101

Subnet mask

255 . 255 . 255 . 0

Standard gateway

192 . 168 . 1 . 1

SAVE



## Ethernet set up

REFUset app 'Inverter setup' screen for a REFUsol 100K inverter. A modal dialog box is displayed in the center with a loading icon and the text "Settings are being stored, inverter performs a restart". A red arrow points from the text on the right to this dialog box. The background settings are dimmed, showing options for "Manual" mode, IP address (192.168.1.101), Subnet mask (255.255.255.0), and Standard gateway (192.168.1.1). A "SAVE" button is visible at the bottom right.

Inverter will store all settings and restart.

After that, if an active internet connection is present, the data transmission to portal REFUlog will begin

