VRM Portal - Dashboard

1.Introduction & available information
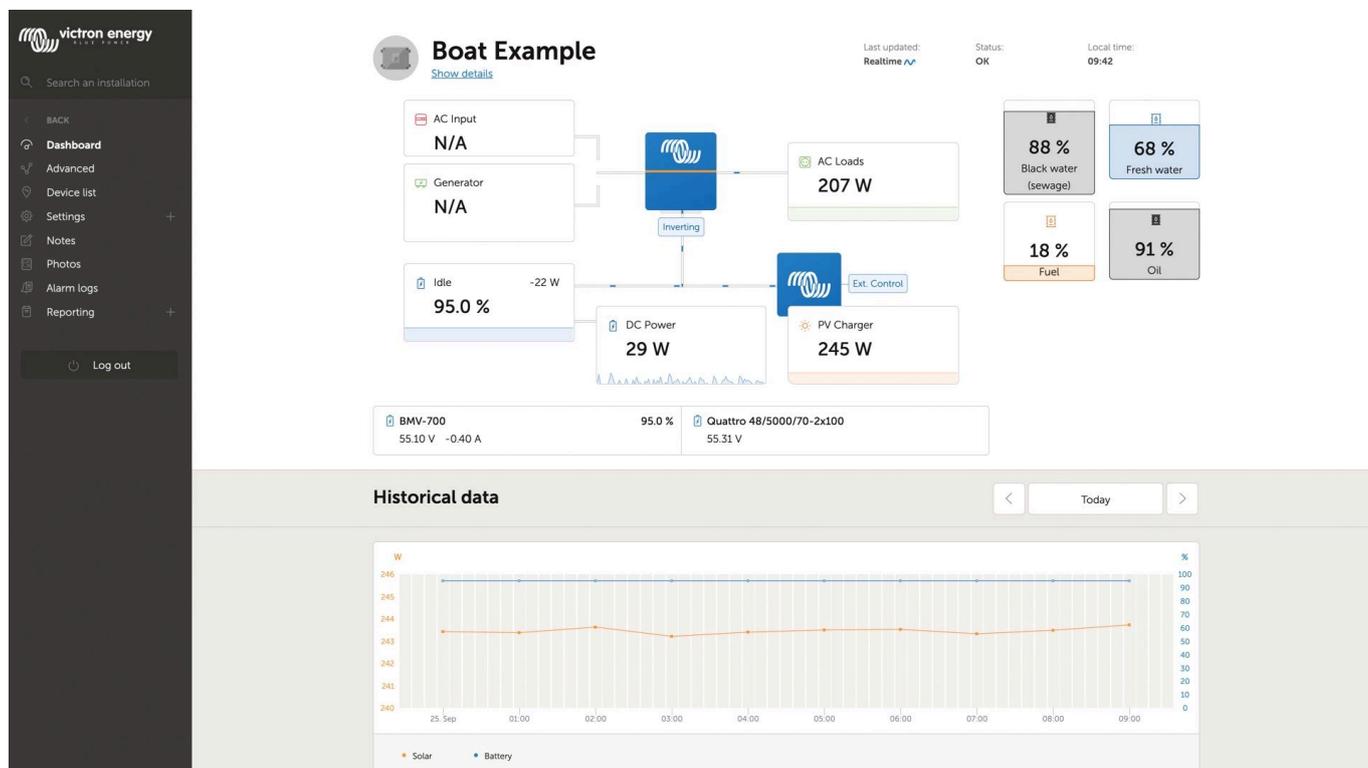
The dashboard is the main page. It shows all information on the installation at a glance.
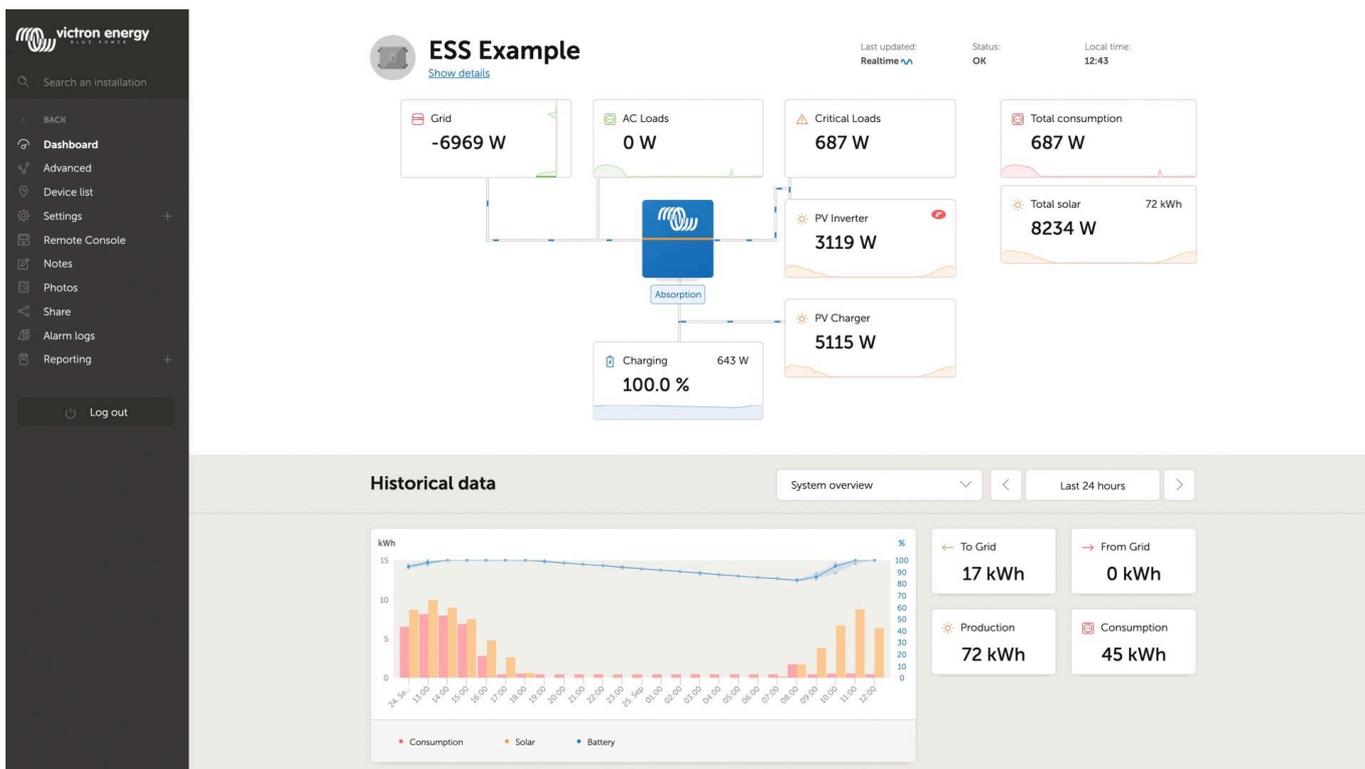
1.1 Introduction video

1.2 Example screenshot for yacht installation

1.3 Example screenshot for ESS installation

1.4 Example screenshot for Off-grid installation
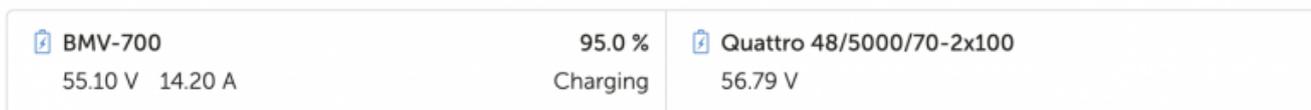
TODO

1.4. Details per section

1.4.1 Schematic visualisation

The information shown adopts itself to the system installed. For systems without inverter/charger,

separate blocks with information are shown, without connected lines with moving ants.

1.4.2 Battery block

| BMV-700	95.0 %	Quattro 48/5000/70-2x100
55.10 V 14.20 A	Charging	56.79 V

Intended for installations with multiple batteries. For each battery the system shows its name, the voltage, current as well as state of charge.

To see this information, the following must be done:

- Configure the battery settings on the GX Device, in the Settings → System Setup → Marine MFD App menu - Meet all the requirements for the Real time feature, as this information is only available when in Real time mode. See Chapter 2.

1.4.3 Historical data

Depending on available information, this block will either show a graph showing bars for kWh production and consumption together with a blue line showing state of charge, like so:
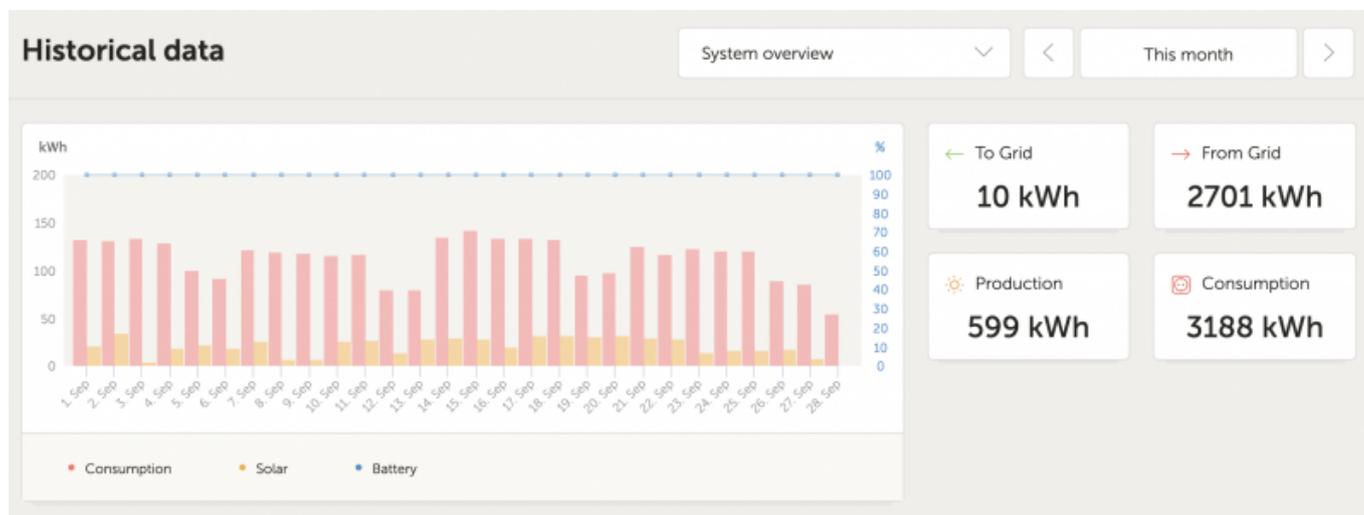

Or, in case that information is not available, it will show a line diagram. The parameters used in the line diagram depend on the products installed:

- Battery monitor (BMV, SmartShunt or similar): Voltage on the left axis and SOC on the right access
- Phoenix Inverter: Output power on the left axis, Battery voltage on the right axis
- Solar Charger: Output power on the left axis, Battery voltage on the right axis.

Requirements for the kWh production and consumption data are explained VRM Portal - Frequently asked questions.

Screenshot of an installation with only a Phoenix Inverter, and thus showing the line diagram:

Historical data
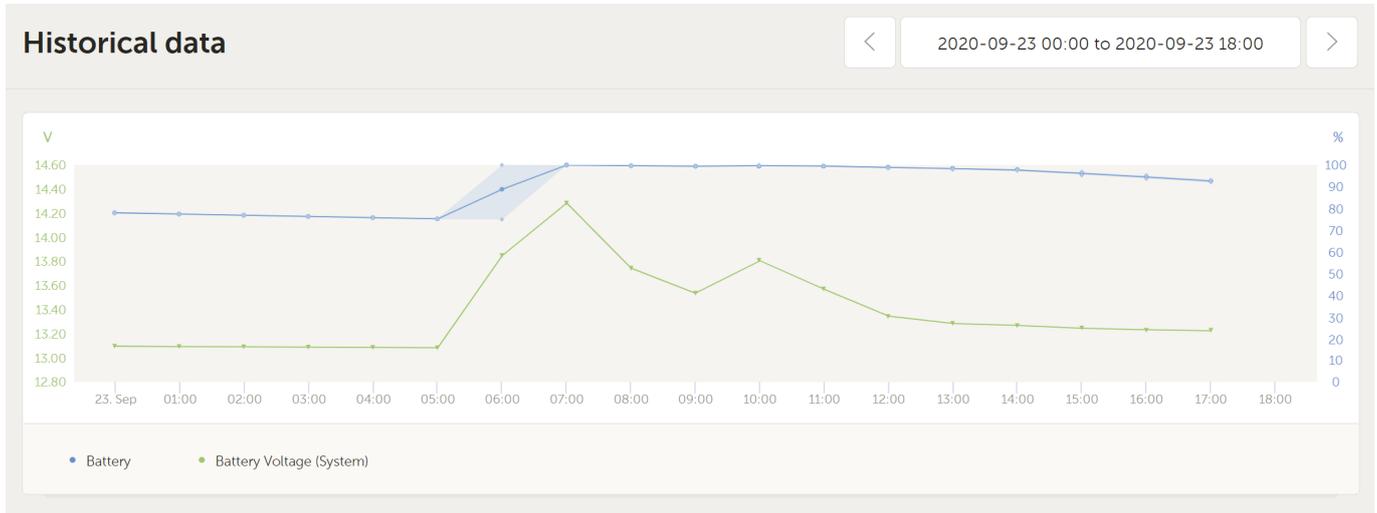
2. Real time data

2.1 Introduction

The dashboard can show real time data, meaning that data updates every two seconds and is sent straight from the installation to your browser. Rather than pulled from the database at which the information is stored at the interval configured in Settings → VRM Portal → Interval (default 15 minutes).

The new dashboard increases the GX CPU load. Data usage is also increased. Both the CPU load and data usage are only increased while the dashboard is being observed.

Check the top of the page to see if its in real time mode. Here is a screenshot when using real time data:

And here is a screenshot of a system not using real time data:


2.2 Requirements

- A GX Device, with Venus OS v2.60 or later
- Good internet connection
- Settings → VRM Portal → Two way communication must be enabled
- Sufficient CPU resources (see below)

2.3 GX Device CPU Load

Transmitting the data to the VRM Dashboard causes an extra load on the CPU in the GX Device. As

such, for systems already operating at 100% CPU, or close to it, would be overloaded. Meaning that tasks are waiting, visible by slow response on Remote Console, slow data updates, and eventually also reboots of the GX Device.

To prevent this, the dashboard will automatically suspend itself in case the CPU load is too high. In which case a warning is shown on the lower right on your screen:
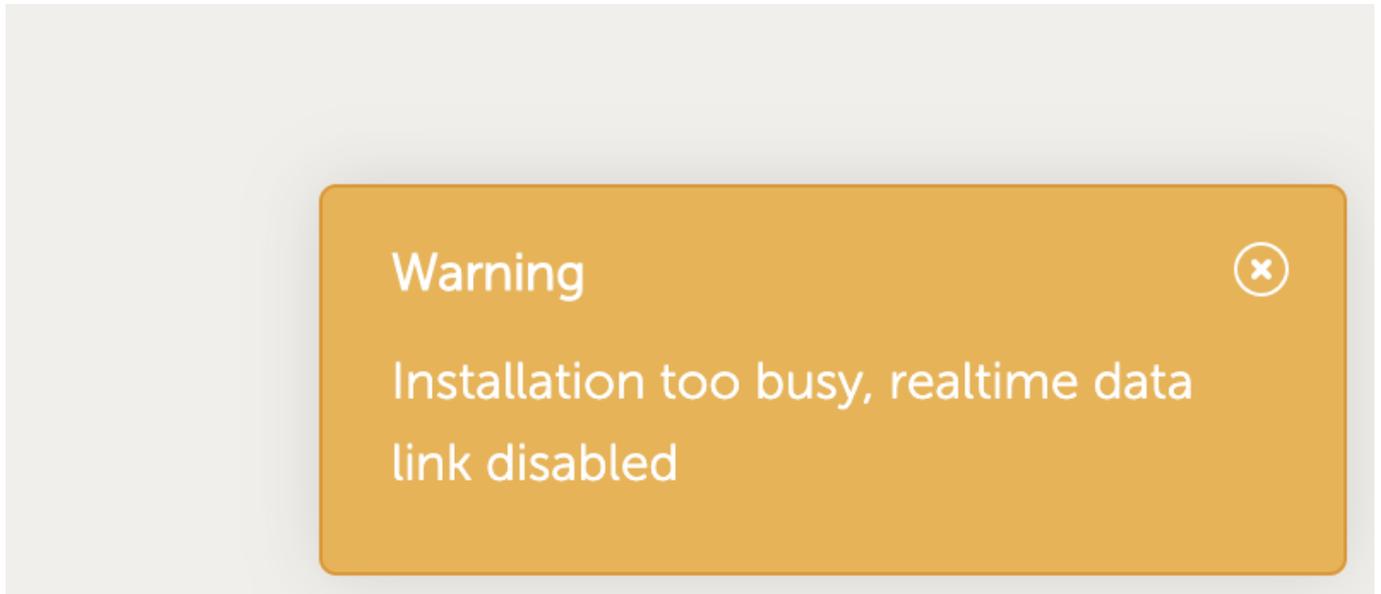
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