

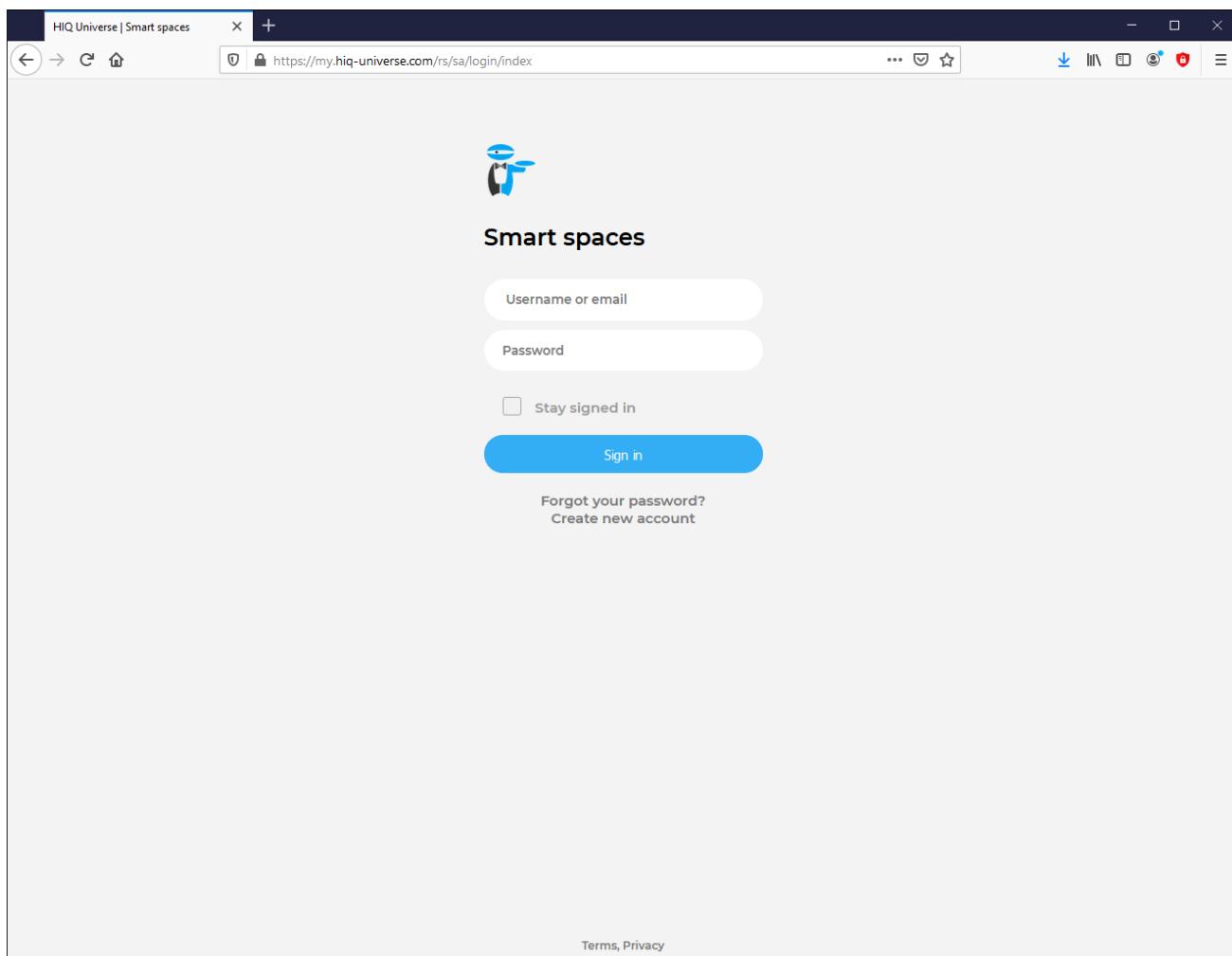
HIQ UNIVERSE

HIQ Universe is a cloud service that enables:

- An overview of current power consumption
- An overview of the history of electrical power and energy consumption and production
- An overview and control of connected devices

Access point: <https://my.hiq-universe.com>

HIQ Universe Log-in

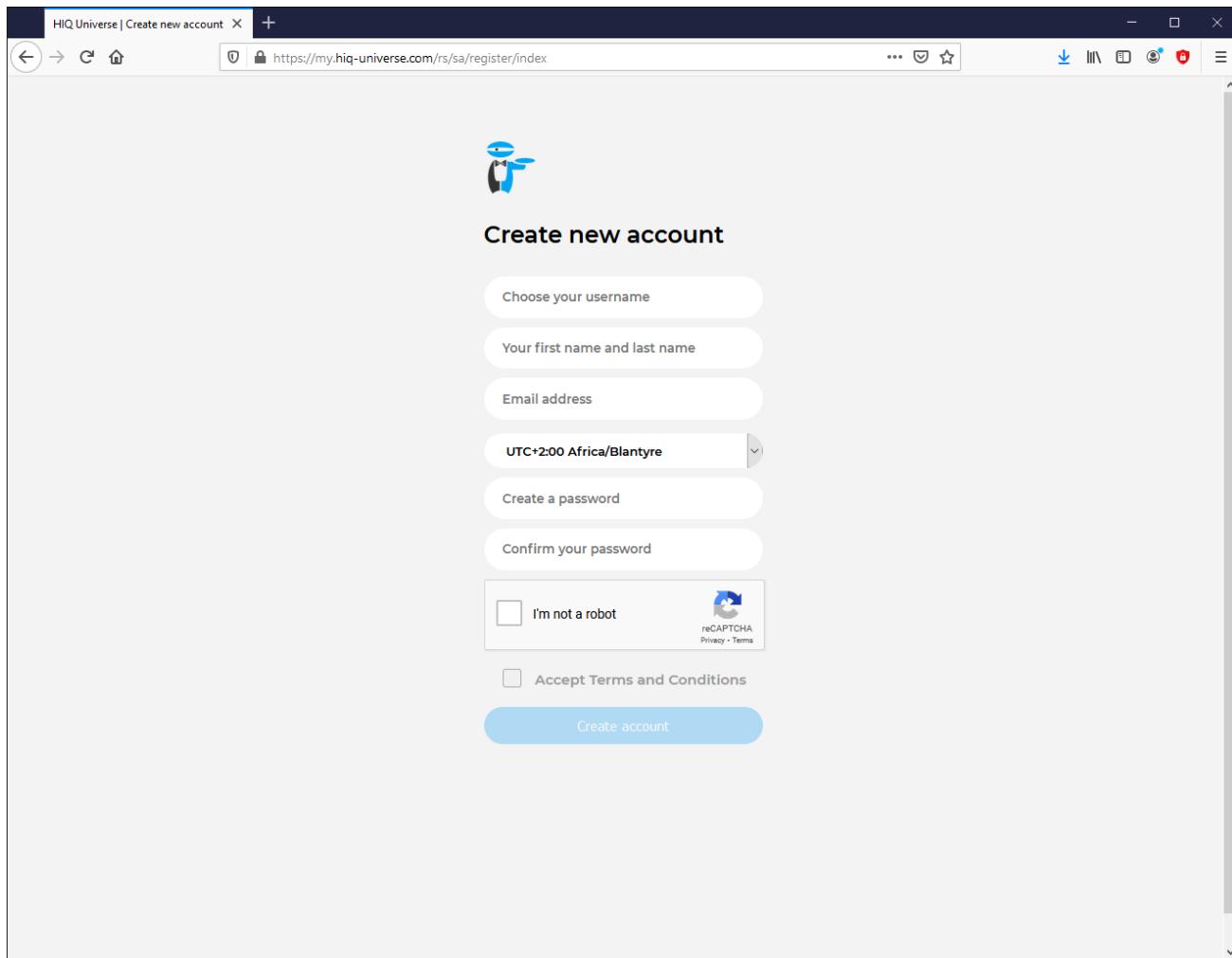


Log in with your username or email and password to see your [HIQ Universe subscription dashboard](#).

To reset forgotten password click on "[Forgot your password?](#)"

To create new account click on "[Create new account](#)".

Create HIQ Universe account



The screenshot shows a web browser window with the title 'HIQ Universe | Create new account'. The URL in the address bar is <https://my.hiq-universe.com/rs/sa/register/index>. The page content is a 'Create new account' form. It includes fields for 'Choose your username', 'Your first name and last name', 'Email address', 'UTC+2:00 Africa/Blantyre' (a dropdown menu), 'Create a password', 'Confirm your password', and a reCAPTCHA section with a checkbox for 'I'm not a robot' and a link to 'Privacy · Terms'. Below the reCAPTCHA is a checkbox for 'Accept Terms and Conditions'. At the bottom is a large blue 'Create account' button.

In the appropriate fields, enter:

- **Username**
- **First and Last name**
- **E-mail address**
- **Timezone**
- **Password**

Click on "I'm not a robot"

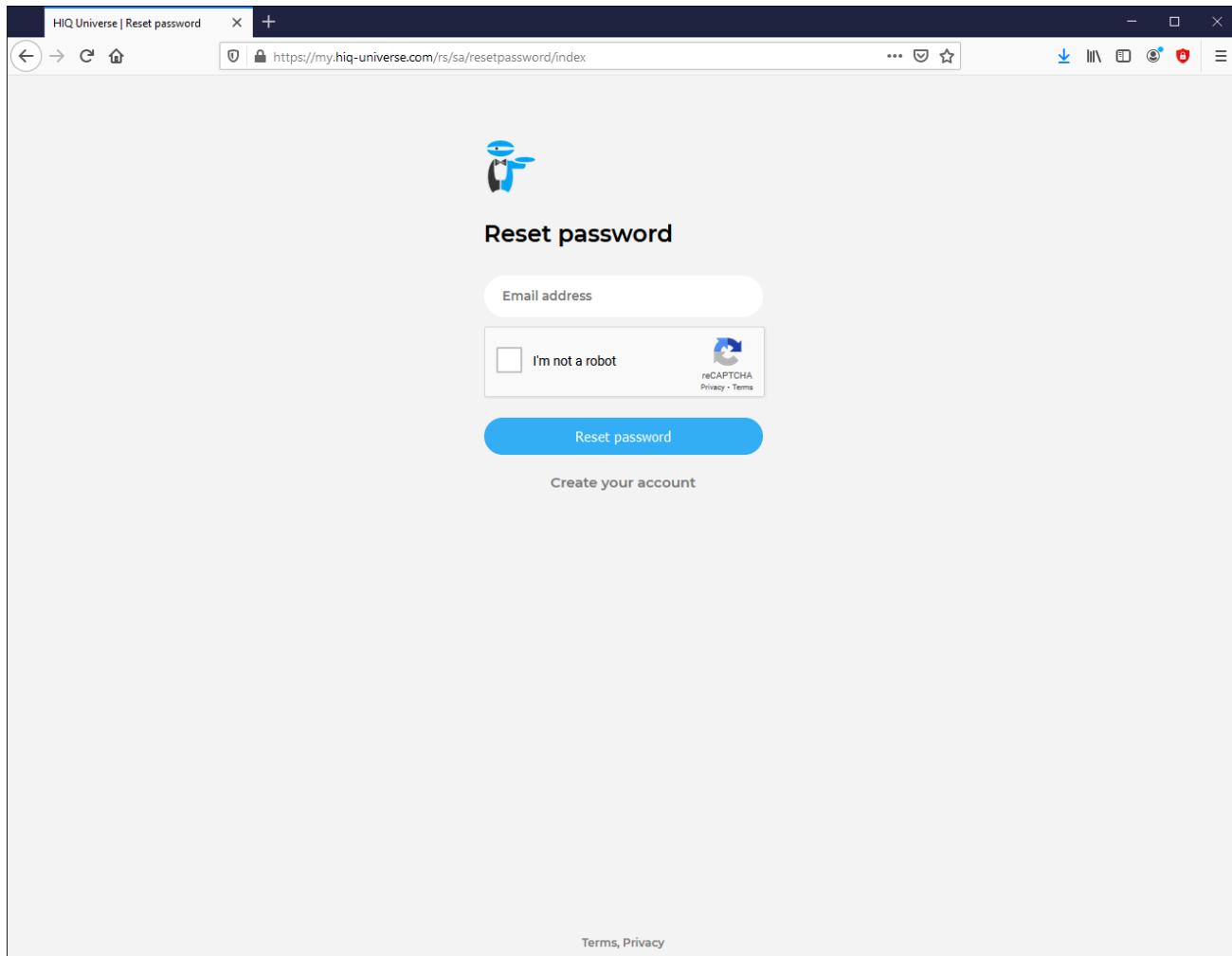
Accept Terms and Conditions.

Click on Create account.

A confirmation link will be sent to your email address.

Proceed to "[HIQ Universe Log-in](#)" screen.

Reset forgotten password

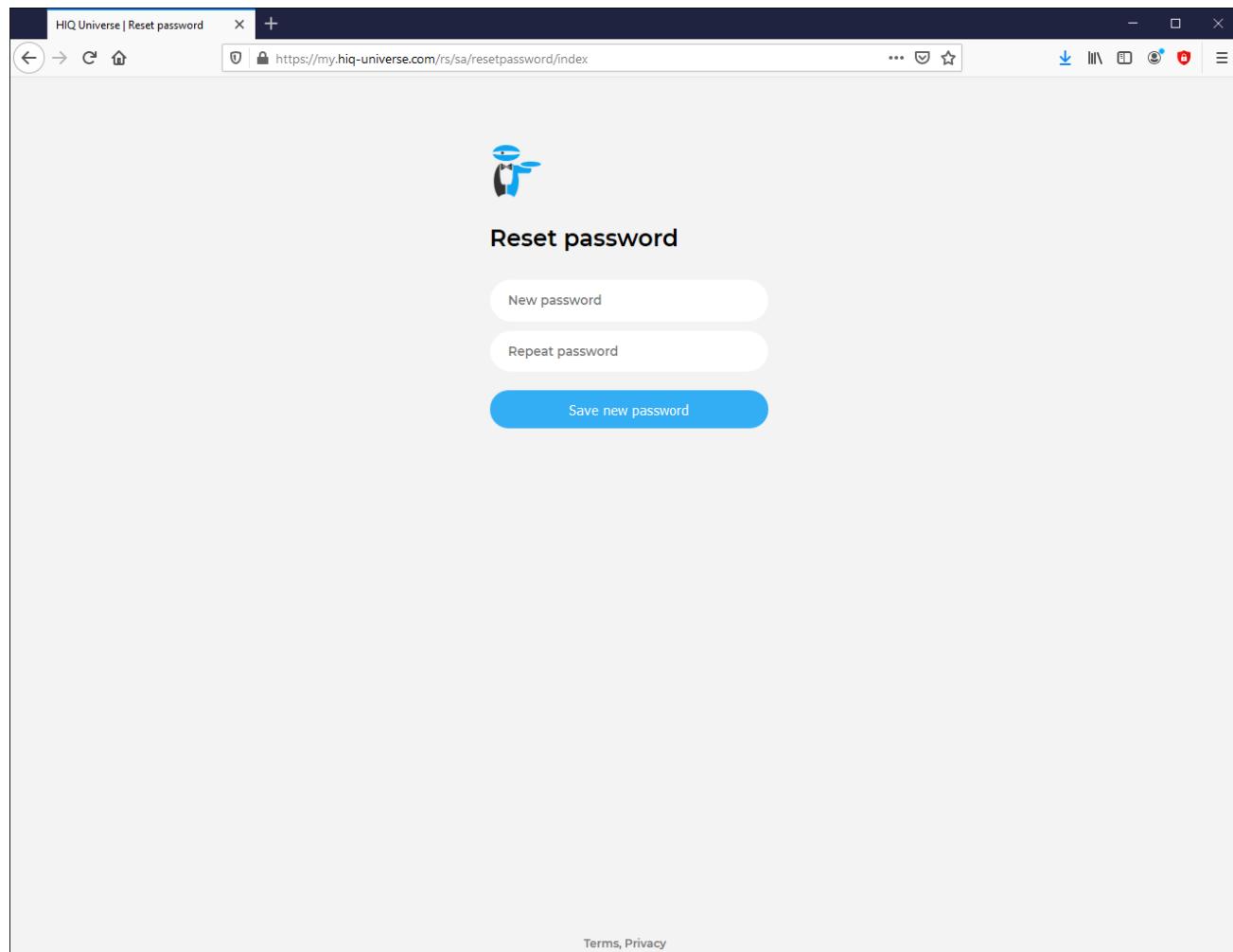


In the appropriate field, enter email address.

Click on "I'm not a robot"

Click on "Reset password".

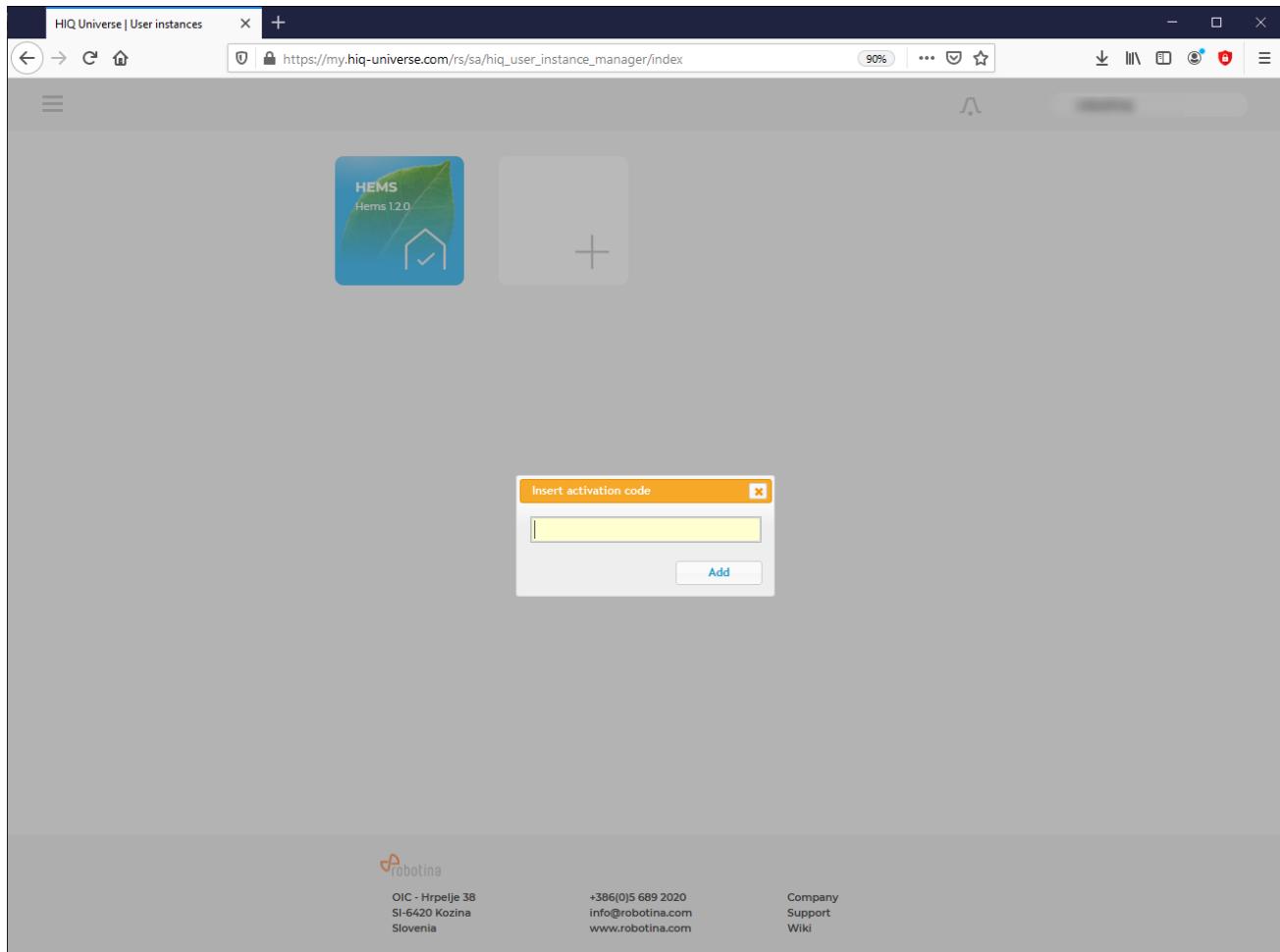
You will receive email with password reset link.



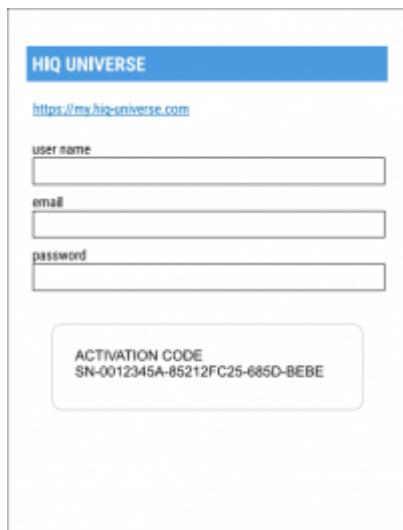
Enter new password and click on "Save new password".

Proceed to "[HIQ Universe Log-in](#)" screen.

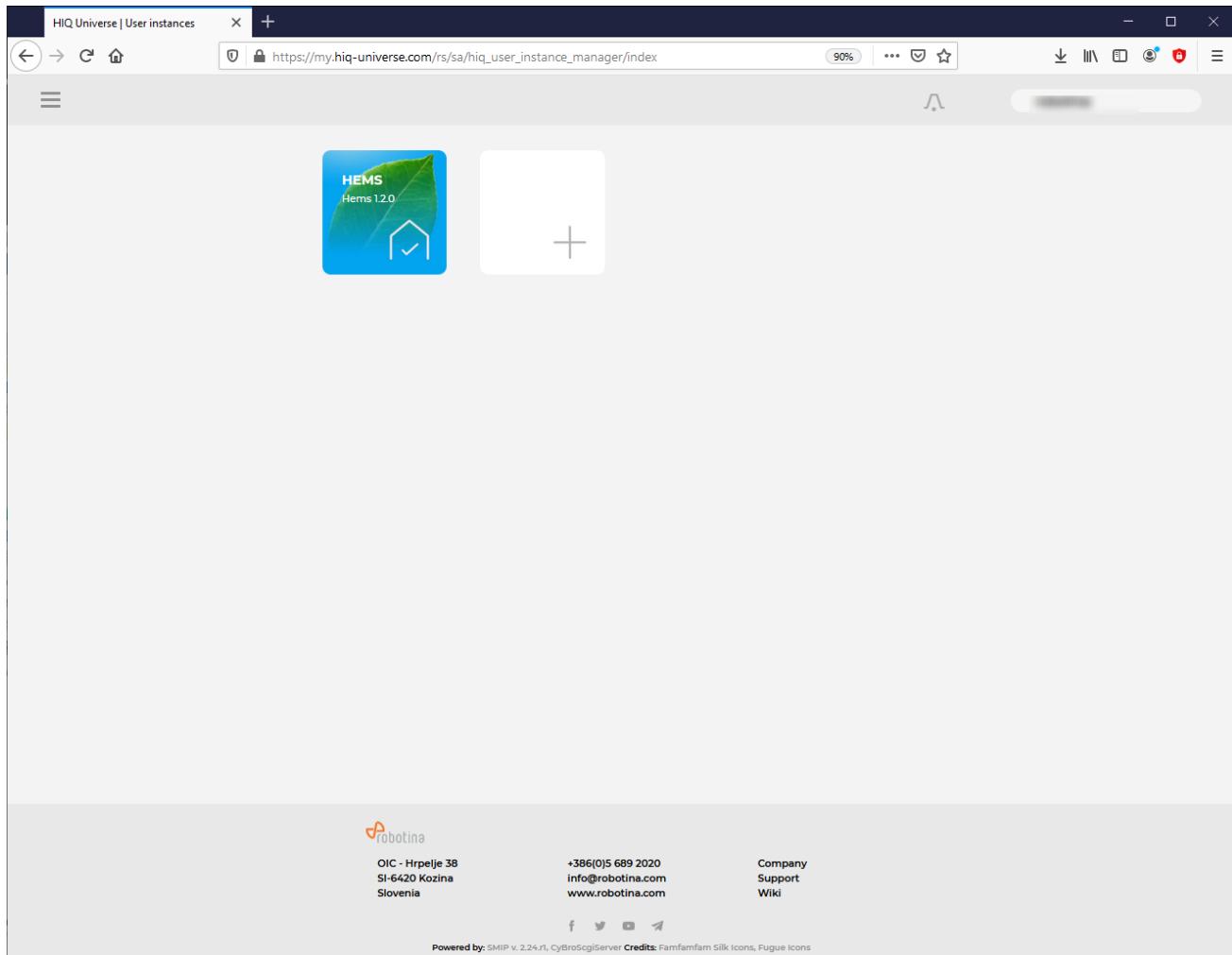
Add HEMS controller



Enter HEMS activation code from "HEMS Quick Set-Up Guide" found in HEMS box.



HIQ Universe subscription dashboard



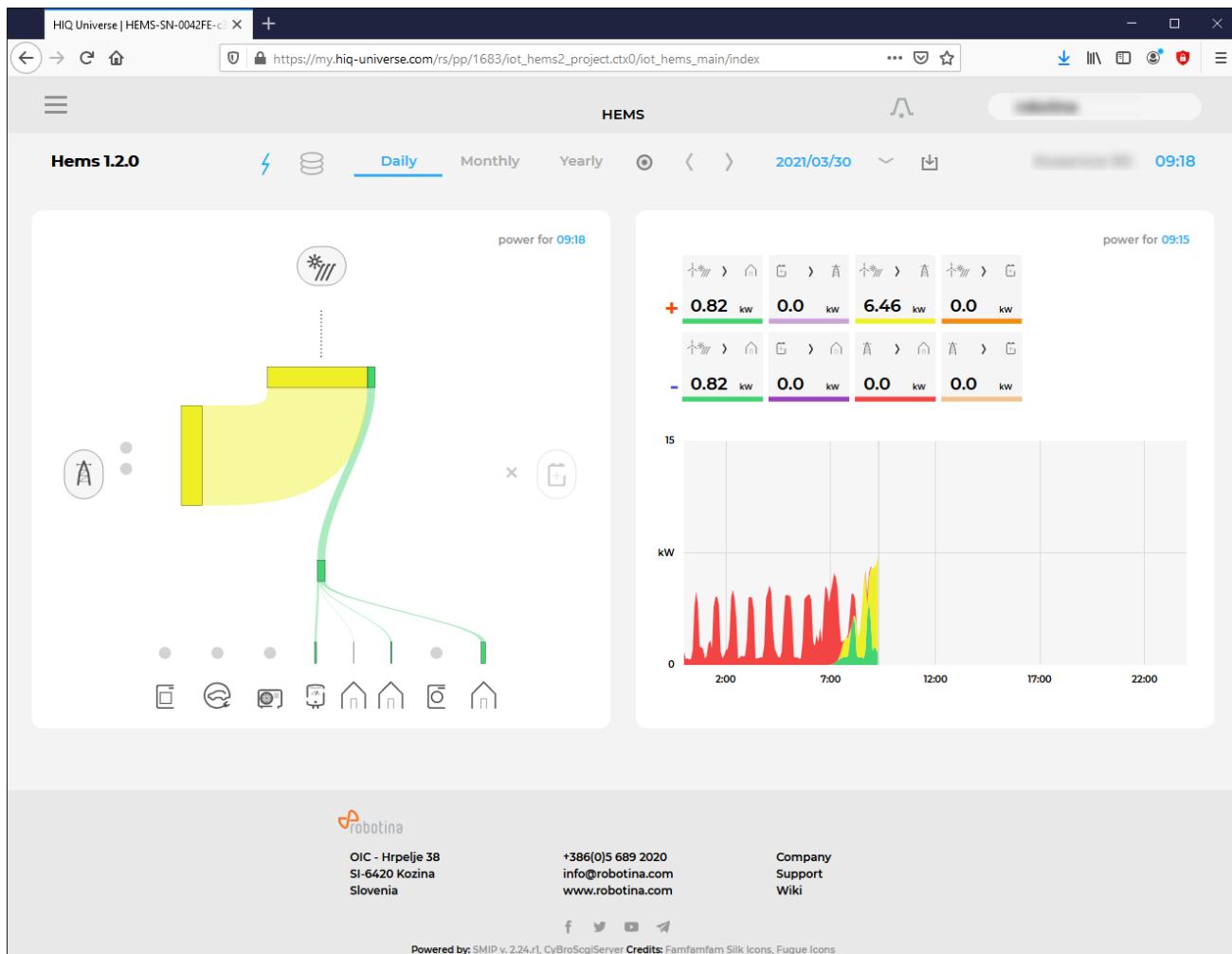
You will see tiles for all your subscribed HIQ Universe devices and services.

Go to [Main HEMS view](#) by clicking on HEMS tile or

add [new HEMS device](#) by clicking on blank tile with + sign.

"User profile set-up" is invoked by clicking on user name on top right.

Main HEMS view



Main HEMS page consists of 3 sections:

- "Title and view selection row" at the top
- "Power flow chart" on left side
- "Power and energy time-plot" on right

Title and view selection row

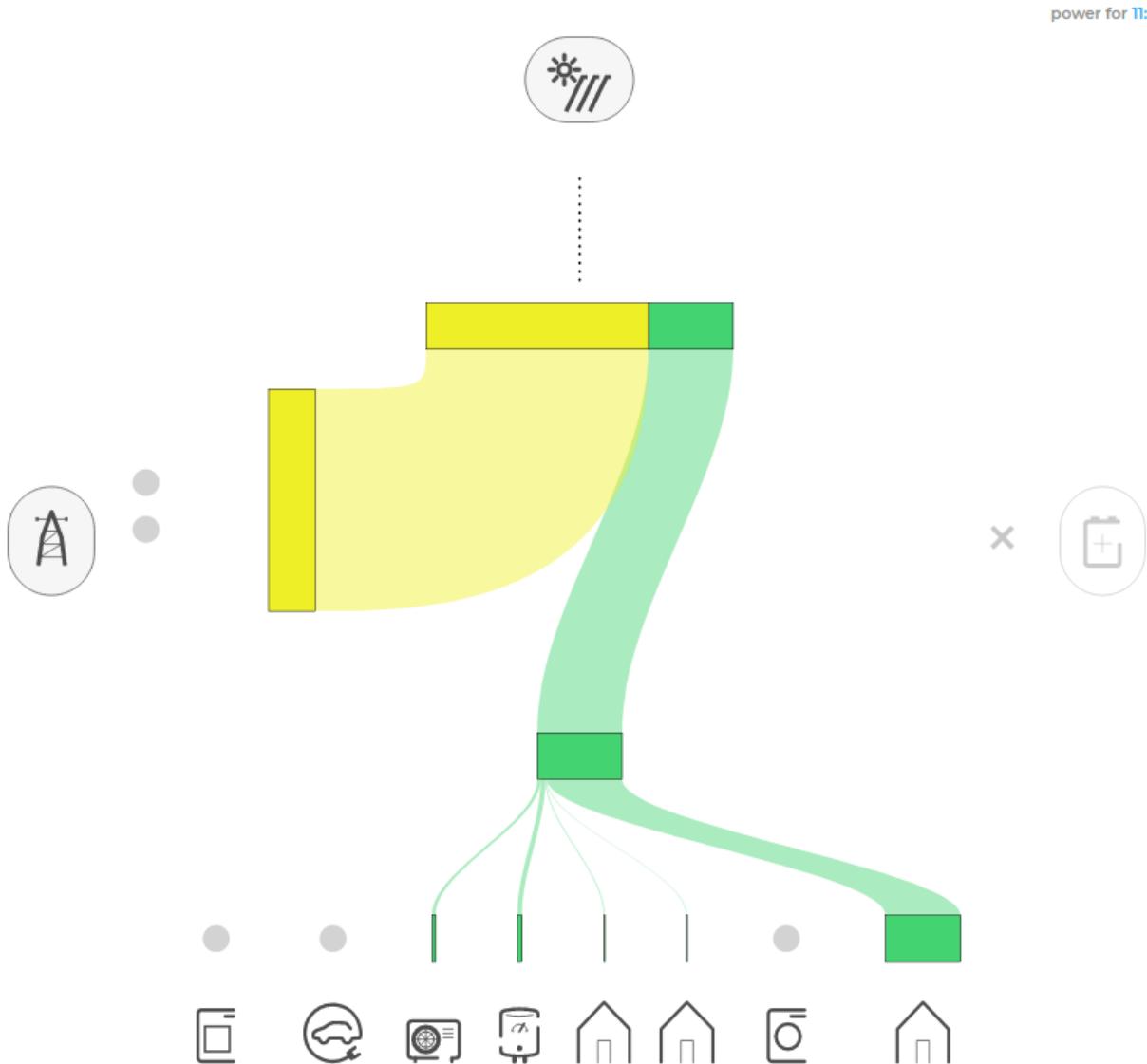


From the left:

- **Application name** → HEMS name
- **Lighting icon** → time-plot displays energy or power
- **Currency icon** → time-plot overlays currency graph
- **Daily** → time-plot displays power
- **Monthly** → time-plot displays energy per day
- **Yearly** → time-plot displays energy per month
- **Target icon** → time-plot go to now

- < → time-plot goes to previous term
- > → time-plot goes to next term
- **Date** → Select term for time-plot
- **Download icon** → Download “csv” data for displayed time-plot period
- **Location** of HEMS installation
- **Time** at HEMS installation site.

Power flow chart



Displays actual power flow with:

- **Power sources** (Local PV, wind, co-generation plants) at top
- **Grid** (divided by tariffs) on left side
- **Storage** (battery) systems on right side and
- **Consumers** on bottom.

Unused items are soft greyed out with X. Items without actual power are displayed as dots.
Clicking on a devices displays current power flow for selected device.

Power and energy time-plot

On bottom is time-plot for selected time period (in title row). By clicking on time plot a term for legend display is selected. Above there is power/energy legend.

Side menu

The screenshot shows the HIQ Universe HEMS interface. On the left, a sidebar menu includes 'HOME PAGE' (with 'Hems 1.2.0' selected), 'Settings page', 'My Things', 'TOOLS' (with 'Profile', 'Reports', and 'Sign out' options), and a 'My Home' section with a tree diagram and icons for a washing machine, house, and other devices. The main content area is titled 'HEMS' and shows a 'Daily' view for March 30, 2021, at 09:18. It displays four energy consumption lines (red, green, blue, orange) with values: 0.82 kw, 0.0 kw, 6.46 kw, 0.0 kw. Below this is a power usage graph from 2:00 to 22:00, showing a sharp peak around 7:00. At the bottom, there is contact information for 'robotina' (OIC - Hrpelje 38, SI-6420 Kozina, Slovenia) and links for 'Company', 'Support', and 'Wiki'.

Side menu is activated by clicking menu icon (three horizontal lines at top-left). Menu items are dynamically created so they can be different for each user. Typical menu items from top:

- **Home page** → section with all your subscribed HIQ Universe devices and services
 - Hems 1.2.0 → ["Main HEMS view"](#)
 - Settings page → ["HEMS settings"](#)
 - My Things → ["My Things"](#)
- **TOOLS** → section with general site tools
 - Profile → ["User profile set-up"](#)
 - Reports → ["System reports"](#)
 - Sign out → Log off from HIQ Universe

HEMS settings

HIQ Universe | Settings page

70%

https://my.hiq-universe.com

Settings page

Device

HEMS-SN-0042FE-c30567-
Dorniz-Wiki

MC serial number: ?

Device name: Hems 1.2.0

Location

Location name: [redacted]

Location latitude: [redacted]

Location longitude: [redacted]

Time Zone: UTC+2:00 Europe/Ljubljana

Energy price

Currency: Euro

Low tariff price (€/kWh): 0.122

High tariff price (€/kWh): 0.122

Feed-in tariff price (€/kWh): 0.122

Timeplots range

Electricity

| | |
|--------------------------|------|
| Max daily power (kW) | 15 |
| Max daily energy (kWh) | 150 |
| Max monthly energy (kWh) | 1000 |

Cost

| | |
|-----------------------|-----|
| Max daily value (€) | 15 |
| Max monthly value (€) | 150 |

[Save settings](#)

Share your device

Owner [Remove](#)

Guest account

Guest email address [Remove guest](#)

[Add](#)

[Save guests](#)

Basic settings and info about HEMS.

Sections:

- **Settings:**
 - Device serial number
 - Device name
 - Location name and coordinates, timezone
- **Energy price:** per tariff energy price
- **Timeplots range:** ranges for various timeplots
- **Share your device:** manage device sharing guest accounts

[My Things](#)

The screenshot shows the 'My Things' interface within the HIQ Universe platform. The interface is divided into several sections:

- Consumers:** A grid of cards showing energy consumption for different household areas:
 - Poraba pritličje: Power 181 W
 - 1. nadstropje: Power 27 W
 - Mansarda: Power 325 W
 - TČ ogrevanje: Power 0 W
 - TČ sanitarna: Power 135 W
 - Kuhinja: Power 0 W
 - Pećica: Power 0 W
 - Polnilnica: Power 0 W (details: State: Available, Phases: 3 phases, Power: 0 W, EVSE max: 20 A, Max current: 20 A, Last session: 0 h 0 min, Energy: 0 Wh)
- Production and grid:**
 - PV: Power 7728 W
 - Grid: Detailed data including Voltage L1: 225 V, Voltage L2: 226 V, Voltage L3: 230 V, Frequency: 50.02 Hz, Tariff: LO, Current L1: -11.8 A, Current L2: -11.8 A, Current L3: -11.3 A
- Storage:** (empty)
- Sensors:** (empty)

My Things GUI could be accessed within the HiQ Universe platform by clicking the My Things item within the main menu. Individual devices are presented as a group of cards, divided on four groups:

- **Consumers**

- Up to 8 consumers
- On/Off control
- Overview of energy and status
 - **Settings:**
 - Manual override (Minute countdown of manual control until cloud can perform optimizations again)
 - Cloud optimizations with timetable
 - Current limiter with priorities
 - **History:**

- Power overview

- **Production and grid**

- Overview of grid and up to 3 other energy sources

- **Storage**

- Overview of up to 2 battery sources

- **Sensors**

- Supported for temperature and humidity sensor

Consumers

Polnilnica



State: Available
Phases: 3 phases
Power: 0 W
EVSE max: 20 A
Max current: 20 A
Last session: 0 h 0 min
Energy: 0 Wh

Settings

Manual override: 0

Smart grid

Cloud optimization:

Smart grid status: Idle

Enabled: from: 0 : 0
to: 0 : 0

Max duration: 15 min

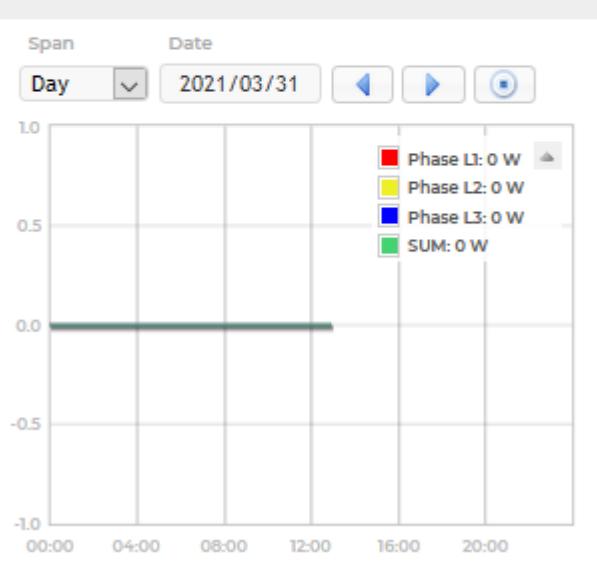
Max request: 1

Suspend time: 15 min

Current limiter

Limiter priority: limit first min

History



Consumers present devices, that consume electric energy. Within the group of Consumers, the first card present a general consumption of the object - a background consumption. The following items present real controllable devices, such as EV charger, Heat pump, wireless socket, etc. An

example of a device is shown in the following image.

The form of a card of each consumer is composed of the general part, history and settings part.

General part contains:

- **Name** of a device, which can be changed by user.
- **Icon** (button) enables toggling the device operation state (Switch on / Switch off).
- **State** label contain the information of device operation state.
- **Phases** label contain the information of EV utilized phases.
- **Power** label contain the information of device consumption power in watts.
- **EVSE max** label contains EVSE max charging current,
- **Max current** label is user desired max charging current, which can be changed by user.
- **Last session** label contains the information of charging duration and energy.

Settings:

- **Manual override** are minutes after switch on/off button is pressed that the smart-grid service is not allowed to switch on/off the device.
- **Cloud optimization** enables or disables smart grid service.
- **Smart grid status** label shows smart grid operation state with the following states:
- **Enabled** section specify the temporal range between **from** and **to** in the form of *hh:mm*, in which the device is allowed to be switched off from according to the smart-grid service. If **from** is larger than **to**, then temporal range is the opposite. If **from** and **to** are equal, then the smart-grid service is enabled 24 hours a day.
- **Max duration** setting limits the duration of time, the smart-grid service switches off (activates) the device. After smart-grid service activates the device, the device will deactivate (switch back on) after max-duration minutes at the latest.
- **Max request** setting limits the maximum daily activations from the smart-grid service.
- **Suspend time** presents the time in minutes, which has to pass between two activations (between the stop of one activation and start of another).
- **Limiter priority** setting can be no limiter, limit last, limit second and limit first. If DCL is enabled and inactive a green warning icon is displayed on the card. If DCL is active the icon turns yellow and if DCL is disabled there is no icon on the card. Limit first is a group of devices that are dynamically regulated first if the main grid current is over the preset threshold. If main grid current is still over the preset threshold, regulating other groups will follow with limit second and after that with limit last.

History:

- **History** part shows historical consumption of a device. The temporal range can be selected as daily, weekly, monthly or yearly. Daily and weekly range shows power consumption in watts, while monthly and yearly range shows energy consumption in kilowatt-hours. The interface enables time-frame selection and time-frame alignment to current time.

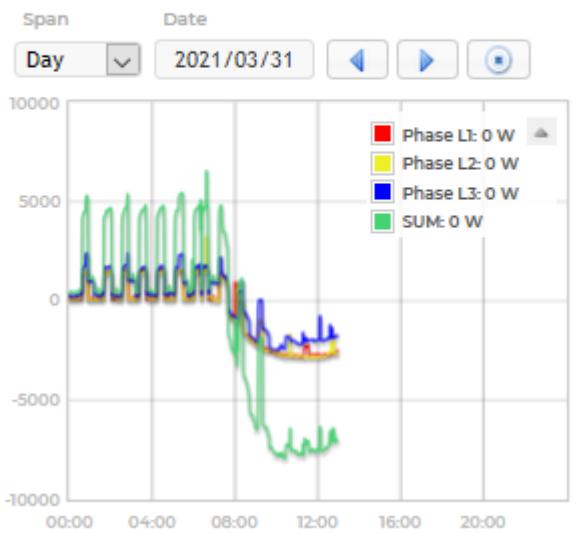
Production and grid

Grid

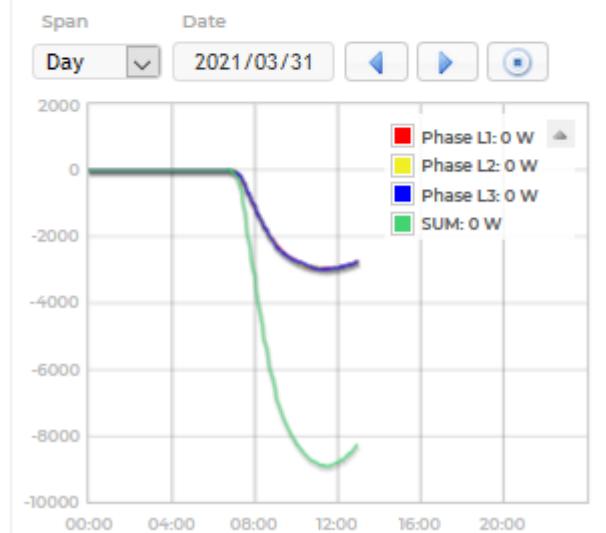
| | |
|-------------|----------|
| Voltage L1: | 230 V |
| Voltage L2: | 231 V |
| Voltage L3: | 231 V |
| Frequency: | 50.00 Hz |
| Tariff: | LO |
| Current L1: | -11.3 A |
| Current L2: | -11.2 A |
| Current L3: | -7.8 A |

Settings**Current limiter**

| | | |
|-----------------|----|---|
| Max current L1: | 25 | A |
| Max current L2: | 25 | A |
| Max current L3: | 25 | A |

History**Power & Energy** **Current****PV elektrárna**

Power:

7961 W**History**

Producers present devices or systems that produce electrical energy. Example of such devices are solar power plant, wind power plant, diesel generator and others. An example on the following figure shows solar power plant.

General part contains:

- **Name** of a plant, which can be changed by user.
- **Icon** represent the type of producer.
- **Voltage** represents voltage of the grid.
- **Frequency** represents frequency of the grid.
- **Tariff** represents active tariff of the grid.
- **Current** represents current of the grid.

- **Power** label contain the information of device production power in watts.

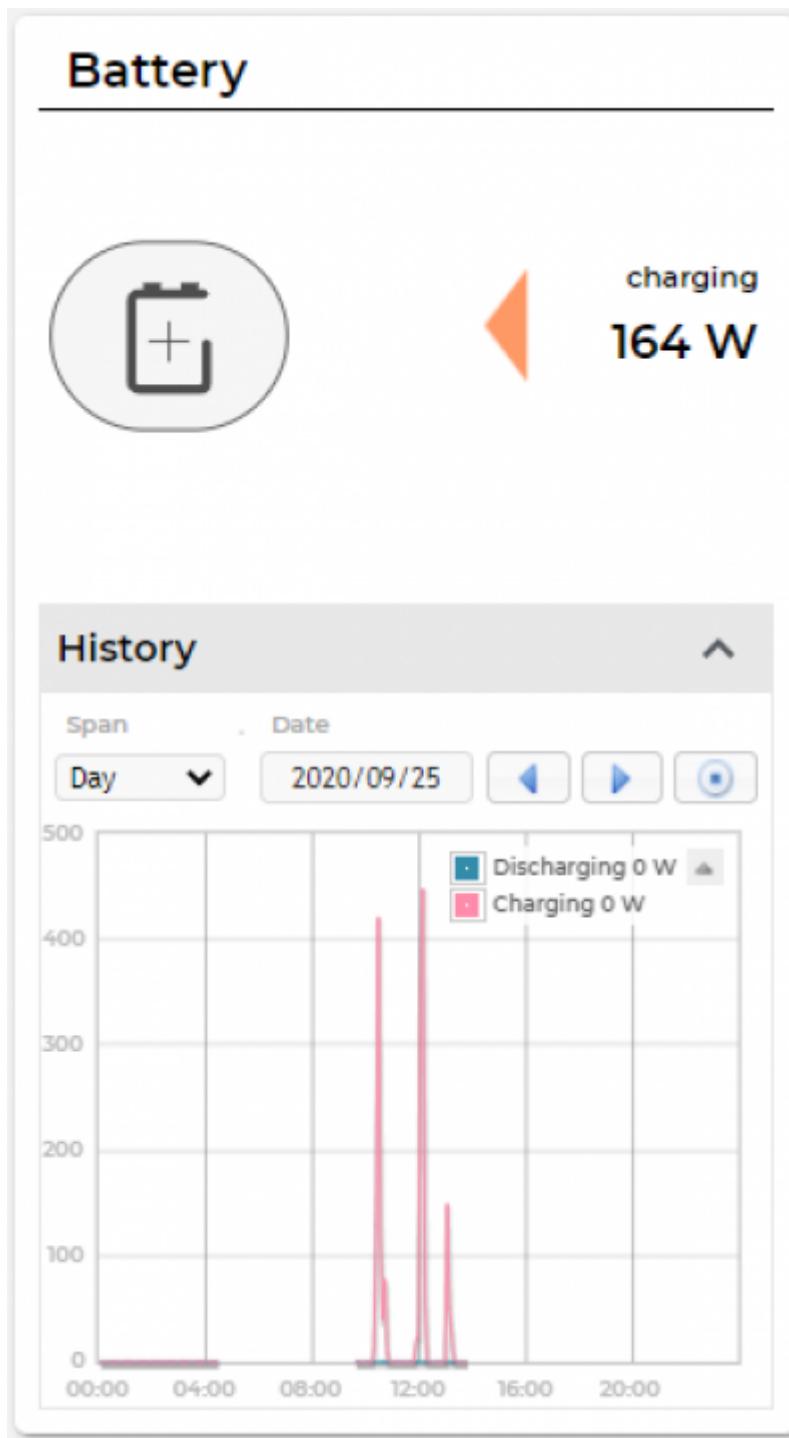
Settings:

- **Dynamic Current Limiter** represents grid current threshold. The DCL will manage devices to keep the current under this threshold. Settings are per phase.

History:

- **History** part shows historical production of a device. The temporal range can be selected as daily, weekly, monthly or yearly. Daily and weekly range shows power production in watts, while monthly and yearly range shows energy production in kilowatt-hours. The interface enables time-frame selection and time-frame alignment to current time. Grid has additional current history.

Storage



Storage present battery as shown in an example figure on the left.

General part contains:

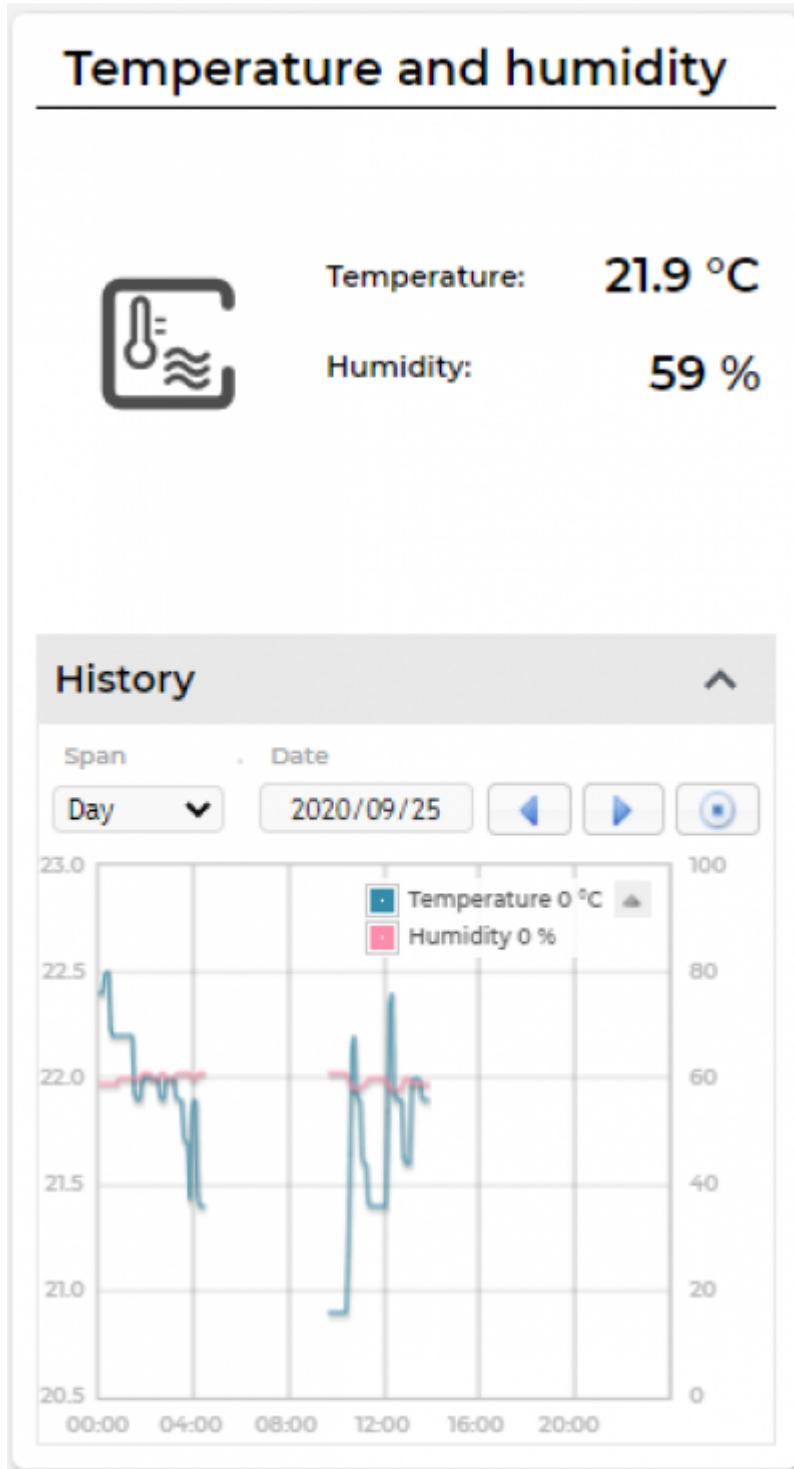
- **Name** of a battery, given by the user.
- **Icon** representing the battery.
- **Power** label contain the information of charging or discharging power in watts.

History:

- **History** part shows historical charging or discharging power of a device. The temporal range can be selected as daily, weekly, monthly or yearly. Daily and weekly range shows

power charging or discharging in watts, while monthly and yearly range shows energy charged or discharged in kilowatt-hours. The interface enables time-frame selection and time-frame alignment to current time.

Sensors



Sensors present devices or systems that measure various quantities, such as temperature, humidity. The left figure represent a combined temperature and humidity sensor.

General part contains:

- **Name** of a sensor, which can be changed by user.
- **Icon** represent the type of sensor.
- **Temperature** label contain the information of temperature measurement in °C.
- **Humidity** label contain the information of relative humidity in %.

History:

- **History** part shows historical sensor measurements. The temporal range can be selected as daily, weekly, monthly or yearly. The interface enables time-frame selection and time-frame alignment to current time.

User profile set-up

The screenshot shows a web browser window for the 'HIQ Universe | Profile' page. The URL is <https://my.hiq-universe.com/rs/s/>. The page is in English. The content is organized into several sections:

- Basic information:** Includes fields for Username (redacted), Created (redacted), Previous login (redacted), Last login (redacted), Last password change (redacted), and Use language (English).
- Profile:** Includes fields for Main realm (redacted), Full name (redacted), Email address (redacted), and Timezone (UTC+0:00 WET).
- Buttons:** Save changes (blue button) and Change password (blue button).
- Password:** Fields for Old password, New password, and Repeat password.
- Persistent logins:** A table with columns ID, Last login, From IP, and Delete. It shows 'No persistent logins'.

Basic information section:

- **Username**
- **Created date and IP**
- **Previous and last login date and IP**
- **Last password change date and IP**
- **User language**

Profile section:

- **Main realm display**
- **Full name, email address and timezone edit fields**

Password:

- **Fields for password changing**

Persistent logins:

- **Data of access from persistent logins**

System Reports

The screenshot shows a web browser window titled "HIQ Universe | Reports". The URL is https://my.hiq-universe.com/rs/sa/user_reports/index. The page displays a table titled "Report configurations" with one row. The row contains a "Report" column with the message "There are no active reports for your devices.", a "Project" column, and a "Send email" column. Below the table is a "Save configurations" button. At the bottom of the page, there is a footer with the "robotina" logo, address "OIC - Hrpelje 38, SI-6420 Kozina, Slovenia", contact information "+386(0)5 689 2020, info@robotina.com, www.robotina.com", and links to "Company", "Support", and "Wiki".

System generated reports can be found here.

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