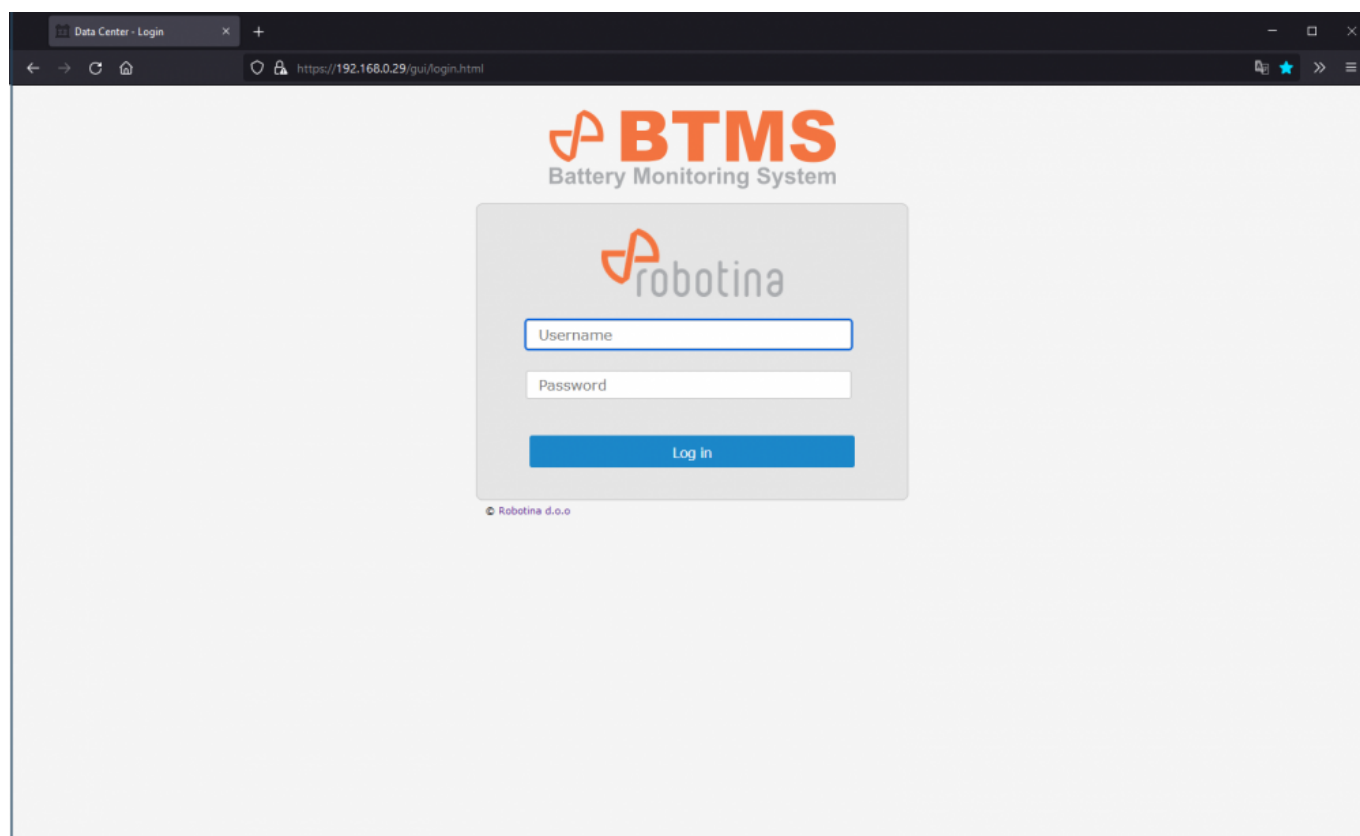


BM-GW WEB UI

- Demo: [BTMS BM-GW WEB UI demo](#)
- User: demo
- Pass: demo

Log-in



1st time log in:

- Connect Ethernet 2 port to facility LAN
- Connect PC to Ethernet 1 port (standard Ethernet cable between PC and BM-GW Ethernet 1 port)
- For PC Ethernet connection set fixed IP 192.168.10.200.
- Use the Internet browser to go to <https://192.168.10.1>
- Log in as:
 - user: admin
 - password: bmgw!admin
- Check the WAN IP address on the Data center - Settings page and set it if necessary

Network settings

Adapter	Mode	IP	Subnet	Gateway	DNS
LAN	fixed	192.168.10.1	255.255.255.0		
WAN	fixed	192.168.0.29	255.255.255.0	192.168.0.2	192.168.0.41, 192.168.0.71

NTP settings

Custom NTP

Host	Port	Enabled
		☒

Default NTP pools (ENABLED)

Host
ntp.ubuntu.com
0.ubuntu.pool.ntp.org
1.ubuntu.pool.ntp.org
2.ubuntu.pool.ntp.org

Time settings

- Connect the PC to the facility LAN and go to the <https://IP> address of the WAN port

General description

Real-time data

UPS	Status	Voltage	Current	SoC
#01	OK	217.89 V	0.00 A	100 %

Voltage

HIGH

LOW

0

#01

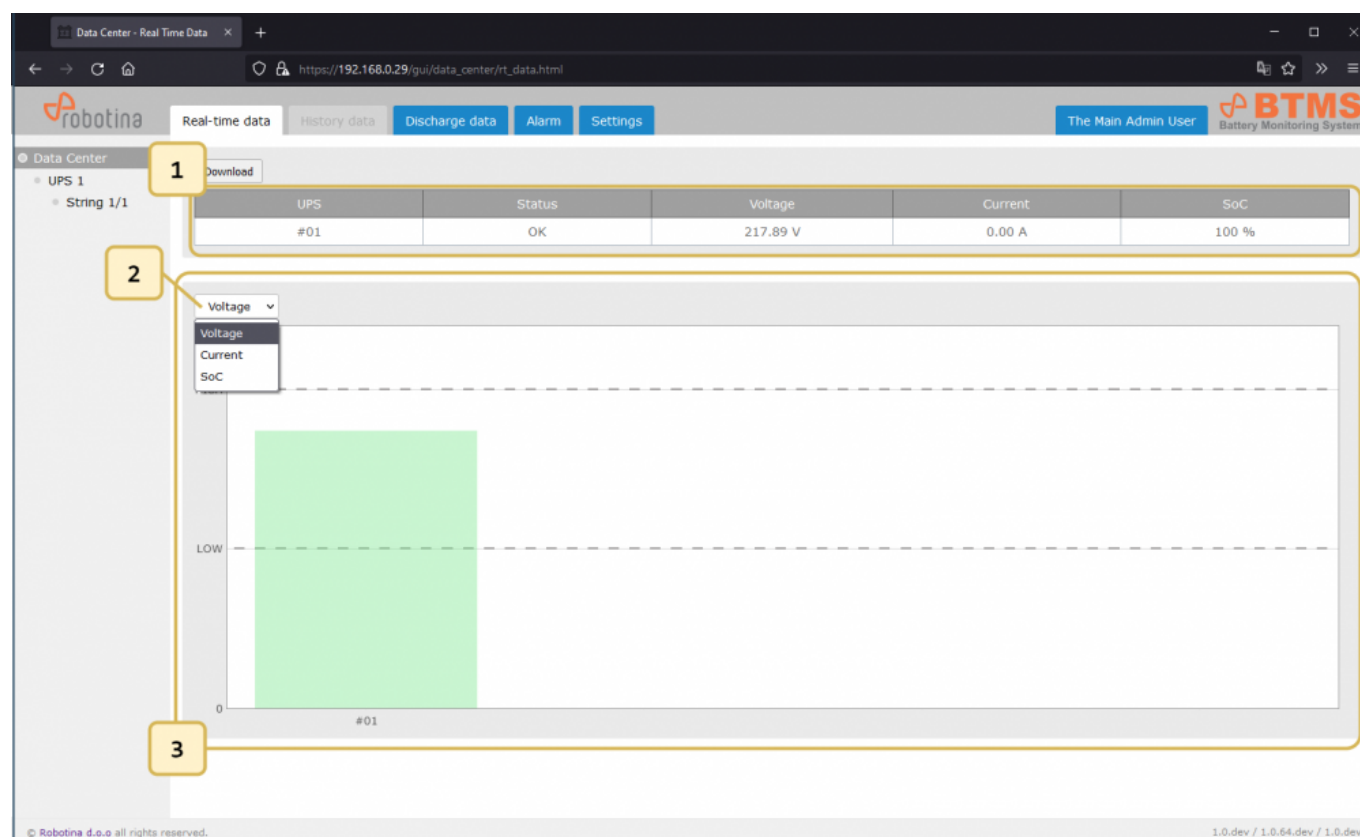
1

Pages tabs

2	Data center tree structure
3	Page data

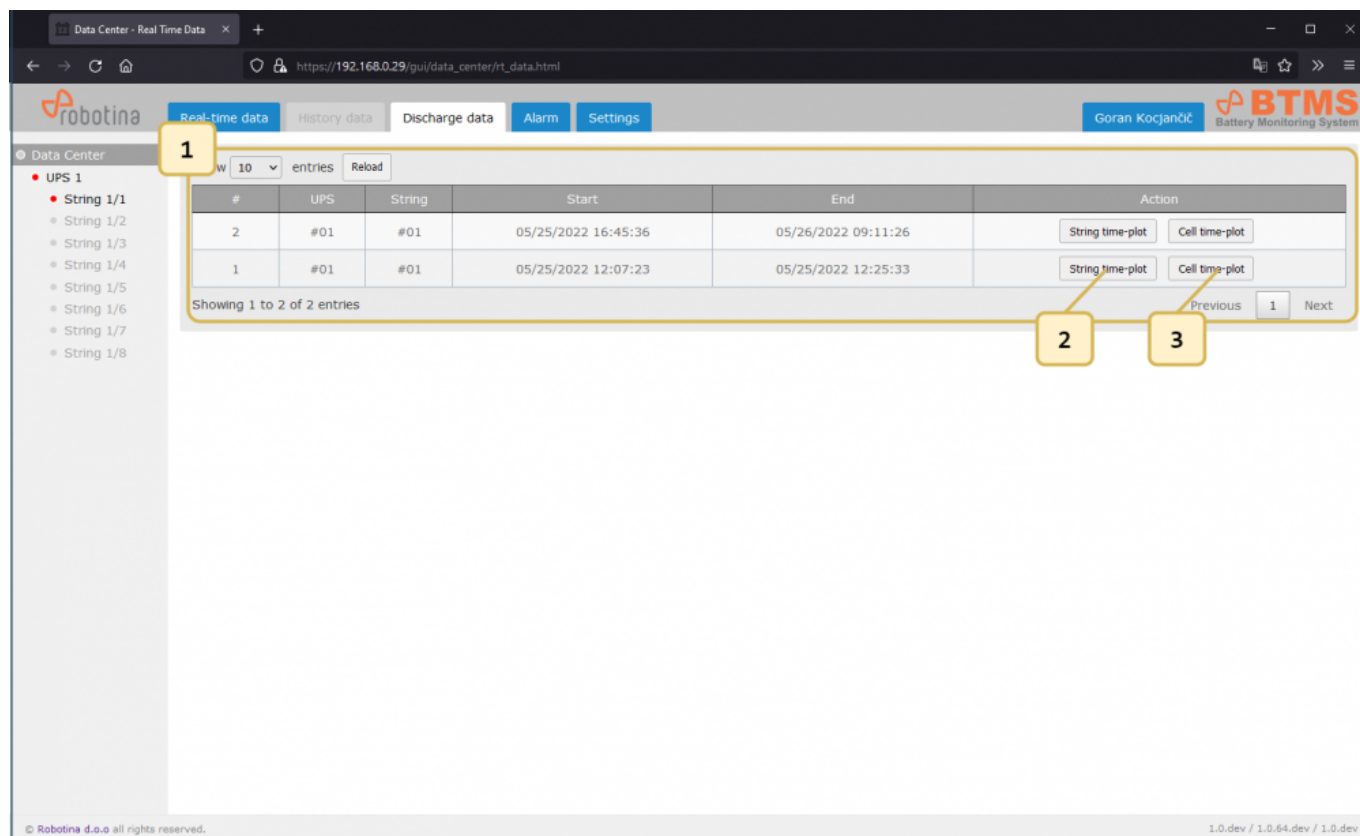
Data center

Real-time data



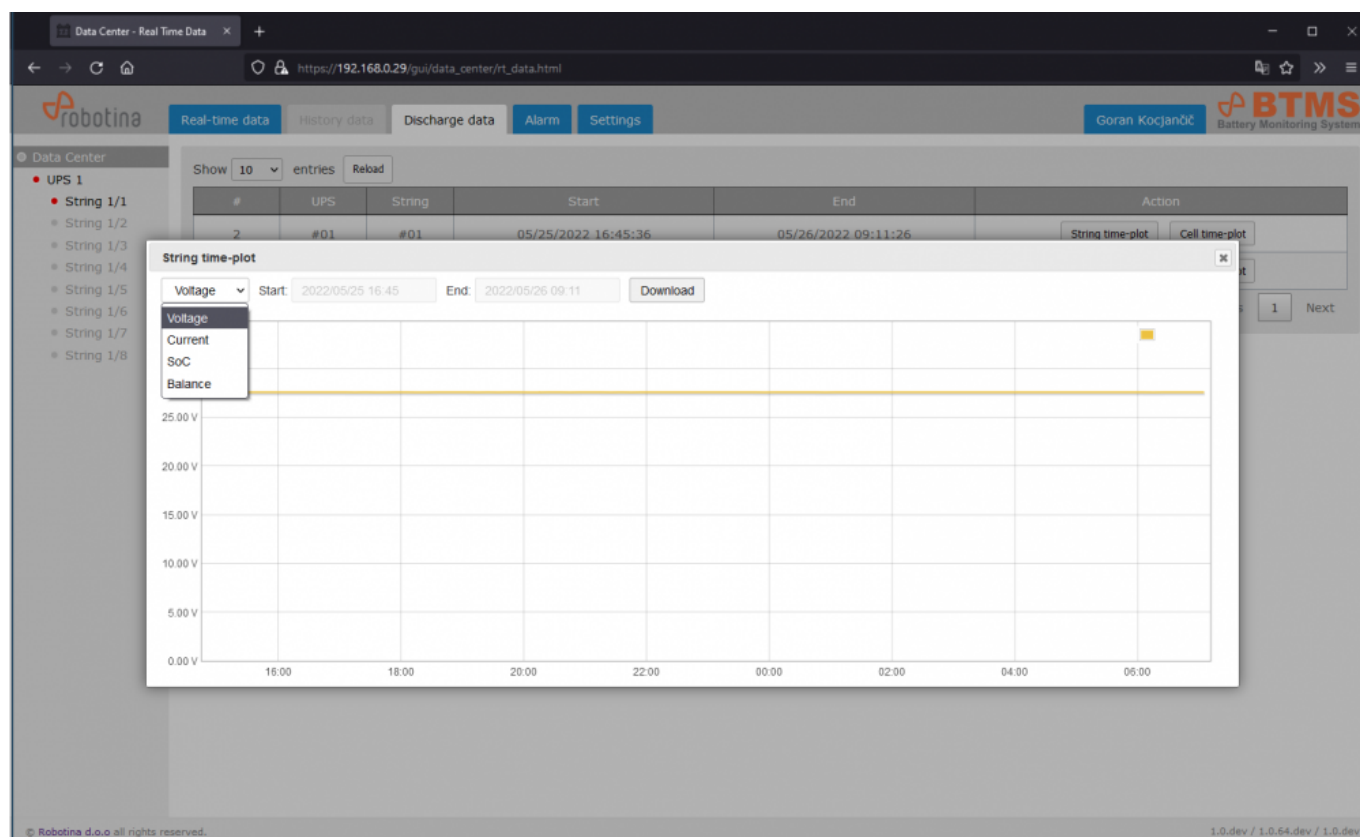
1	Tabular display of data for the Data Center
2	Select a parameter for the graphic display
3	Graphic bar-graph data display for the data center

Discharge data

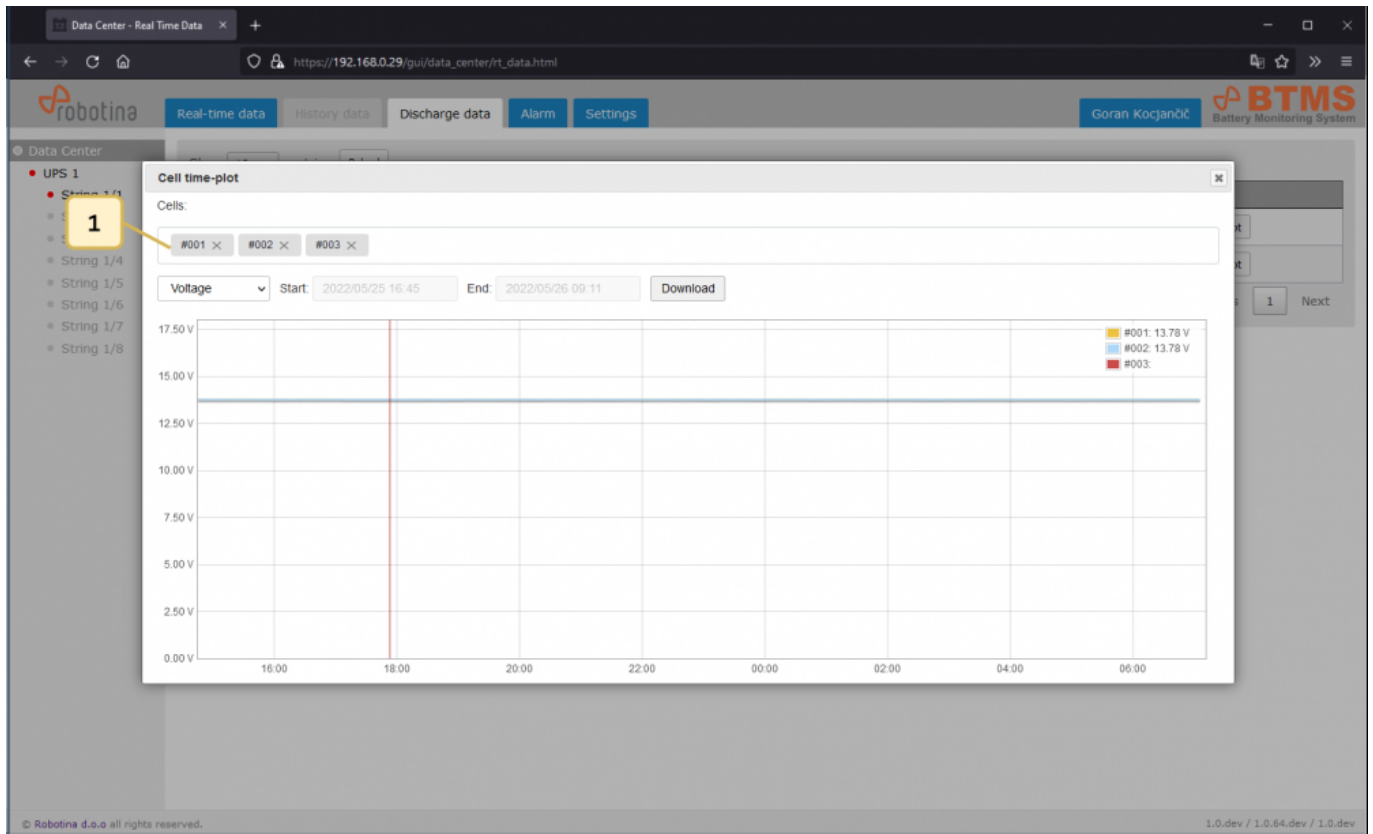


- | | |
|---|--------------------------------------|
| 1 | Discharge events table |
| 2 | String time-plot for discharge event |
| 3 | Cell time-plot for discharge event |

String time-plot for discharge event



Cell time-plot for discharge event



1

Cell selection

Alarm

The screenshot shows the 'Alarm' section in the Robotina BTMS web interface. The table lists 14 alarm entries with columns for #, UPS, String, Cell, From, To, Alarm, and Status. The status of the alarms is 'active' or 'gone'.

#	UPS	String	Cell	From	To	Alarm	Status
14	#01	#01	#001	06/07/2022 14:22:20		Temperature high	active
13	#01	#01		06/06/2022 13:35:56	06/06/2022 13:38:24	Current low (discharging)	gone
12	#01	#01		06/06/2022 13:29:16	06/06/2022 13:38:24	Current high (charging)	gone
11	#01	#01		06/06/2022 13:14:48	06/06/2022 13:28:41	Voltage low	gone
10	#01	#01		06/06/2022 13:14:48	06/06/2022 13:28:41	Voltage high	gone
9	#01	#01		06/06/2022 13:14:48	06/06/2022 13:28:41	Current low (discharging)	gone
8	#01	#01		06/06/2022 13:14:48	06/06/2022 13:28:41	Current high (charging)	gone
7	#01	#01		06/06/2022 13:00:19	06/06/2022 13:00:51	Voltage low	gone
6	#01	#01		06/06/2022 12:43:25	06/06/2022 13:00:51	Voltage high	gone
5	#01	#01		06/06/2022 12:43:25	06/06/2022 13:00:51	Current low (discharging)	gone

2

1	Alarms sub-page selection
2	Alarms table

E-mails

The screenshot shows the 'Sent E-mails' page in the BM-GW WEB UI. The page has a top navigation bar with tabs for 'Real-time data', 'History data', 'Discharge data', 'Alarm', and 'Settings'. The 'Alarm' tab is active, and the 'E-mails' sub-tab is selected. The left sidebar shows the navigation menu with 'Data Center' expanded and 'String 1/1' selected. The main content area displays a table of 6 email entries, all with a status of 'failed'. The table columns are: #, UPS, String, Cell, Alarm, Time, Contact, Status, and Error. The bottom of the page shows the footer with copyright information and version numbers.

#	UPS	String	Cell	Alarm	Time	Contact	Status	Error
6	#01	#01		current low (discharging)	06/06/2022 13:40:49	The Main Admin User / razvoj@3-port.si	failed	SMTP server not configured
5	#01	#01		current low (discharging)	06/06/2022 13:40:39	Uroš Marušič / uros.marusic@3-port.si	failed	Couldn't connect to host, port: localhost, 25; timeout -1
4	#01	#01		3 events from 2022-06-06T13:14:48+02:00 to 2022-06-06T13:29:16+02:00	06/06/2022 13:32:05	The Main Admin User / razvoj@3-port.si	failed	Couldn't connect to host, port: localhost, 25; timeout -1
3	#01	#01		3 events from 2022-06-06T13:14:48+02:00 to 2022-06-06T13:29:16+02:00	06/06/2022 13:32:05	Uroš Marušič / uros.marusic@3-port.si	failed	Couldn't connect to host, port: localhost, 25; timeout -1
2	#01	#01		3 events from 2022-06-06T13:00:51+02:00 to 2022-06-06T13:14:48+02:00	06/06/2022 13:17:06	The Main Admin User / razvoj@3-port.si	failed	Couldn't connect to host, port: localhost, 25; timeout -1
1	#01	#01		3 events from 2022-06-06T13:00:51+02:00 to 2022-06-06T13:14:48+02:00	06/06/2022 13:17:05	Uroš Marušič / uros.marusic@3-port.si	failed	Couldn't connect to host, port: localhost, 25; timeout -1

Showing 1 to 6 of 6 entries

Previous 1 Next

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SMS

Data Center - Sent SMS

Real-time data | History data | Discharge data | Alarm | Settings

The Main Admin User | BTMS Battery Monitoring System

Data Center

- UPS 1
 - String 1/1

Alarms | E-mails | SMS

Show 10 entries | Reload | Download

#	UPS	String	Cell	Alarm	Time	Contact	Status	Error
6	#01	#01		2 events from 2022-06-06T13:29:16+02:00 to 2022-06-06T13:38:24+02:00	06/06/2022 13:40:39	Uroš Marušič / uros.marusic@3-port.si	failed	Connection refused (Connection refused)
5	#01	#01		3 events from 2022-06-06T13:14:48+02:00 to 2022-06-06T13:29:16+02:00	06/06/2022 13:32:05	Uroš Marušič / uros.marusic@3-port.si	failed	Connection refused (Connection refused)
4	#01	#01		2 events from 2022-06-06T13:00:51+02:00 to 2022-06-06T13:14:48+02:00	06/06/2022 13:17:06	Uroš Marušič / uros.marusic@3-port.si	failed	Connection refused (Connection refused)
3	#01	#01		2 events from 2022-06-06T12:43:25+02:00 to 2022-06-06T13:00:51+02:00	06/06/2022 13:03:59	Uroš Marušič / uros.marusic@3-port.si	failed	Connection refused (Connection refused)
2	#01	#01		2 events from 2022-06-06T07:38:22Z to 2022-06-06T10:43:25Z	06/06/2022 12:47:57	Uroš Marušič / uros.marusic@3-port.si	failed	Connection refused (Connection refused)
1	#01	#01		2 events from 2022-06-06T07:35:55Z to 2022-06-06T07:38:22Z	06/06/2022 09:42:23	Uroš Marušič / uros.marusic@3-port.si	failed	Connection refused (Connection refused)

Showing 1 to 6 of 6 entries

Previous 1 Next

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Settings

Network settings, NTP settings

Data Center - Settings

Real-time data | History data | Discharge data | Alarm | Settings

The Main Admin User | BTMS Battery Monitoring System

Data Center

- UPS 1
 - String 1/1

Network settings

Edit

Adapter	Mode	IP	Subnet	Gateway	DNS
LAN	fixed	192.168.10.1	255.255.255.0		
WAN	fixed	192.168.0.29	255.255.255.0	192.168.0.2	192.168.0.41, 192.168.0.71

NTP settings

Edit | Sync now

Custom NTP

Host	Port	Enabled
		☒

Default NTP pools (ENABLED)

Host
ntp.ubuntu.com
0.ubuntu.pool.ntp.org
1.ubuntu.pool.ntp.org
2.ubuntu.pool.ntp.org

Time settings

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Time settings, Users

The screenshot shows the Robotina BTMS web interface. The top navigation bar includes tabs for Real-time data, History data, Discharge data, Alarm, and Settings. The left sidebar shows the Data Center structure with UPS 1 and String 1/1. The main content area is divided into three sections: Time settings, Users, and SMTP settings.

Time settings

Time: 18:10:09, Date: 06/07/2022

Timezone: Europe/Ljubljana

Users

User	Full name	Administrator	Phone number	E-mail
admin	The Main Admin User	☒		razvoj@3-port.si
goran	Goran Kocjancic	☒	041379313	goran.kocjancic@robotina.com
devid	Devid Palcic	☒		

SMTP settings

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SNMP settings, SMS notifications, Project settings, Data export

The screenshot shows the Robotina BTMS web interface with the Settings tab selected. The main content area is divided into four sections: SMTP settings, SMS notifications, Project settings, and Data Export.

SMTP settings

Host, Port, From E-mail, Security, Username

SMS notifications

Test SMS: Your user does not have an associated phone number.

Project settings

Project name	Company	URL	Owner

Data Export

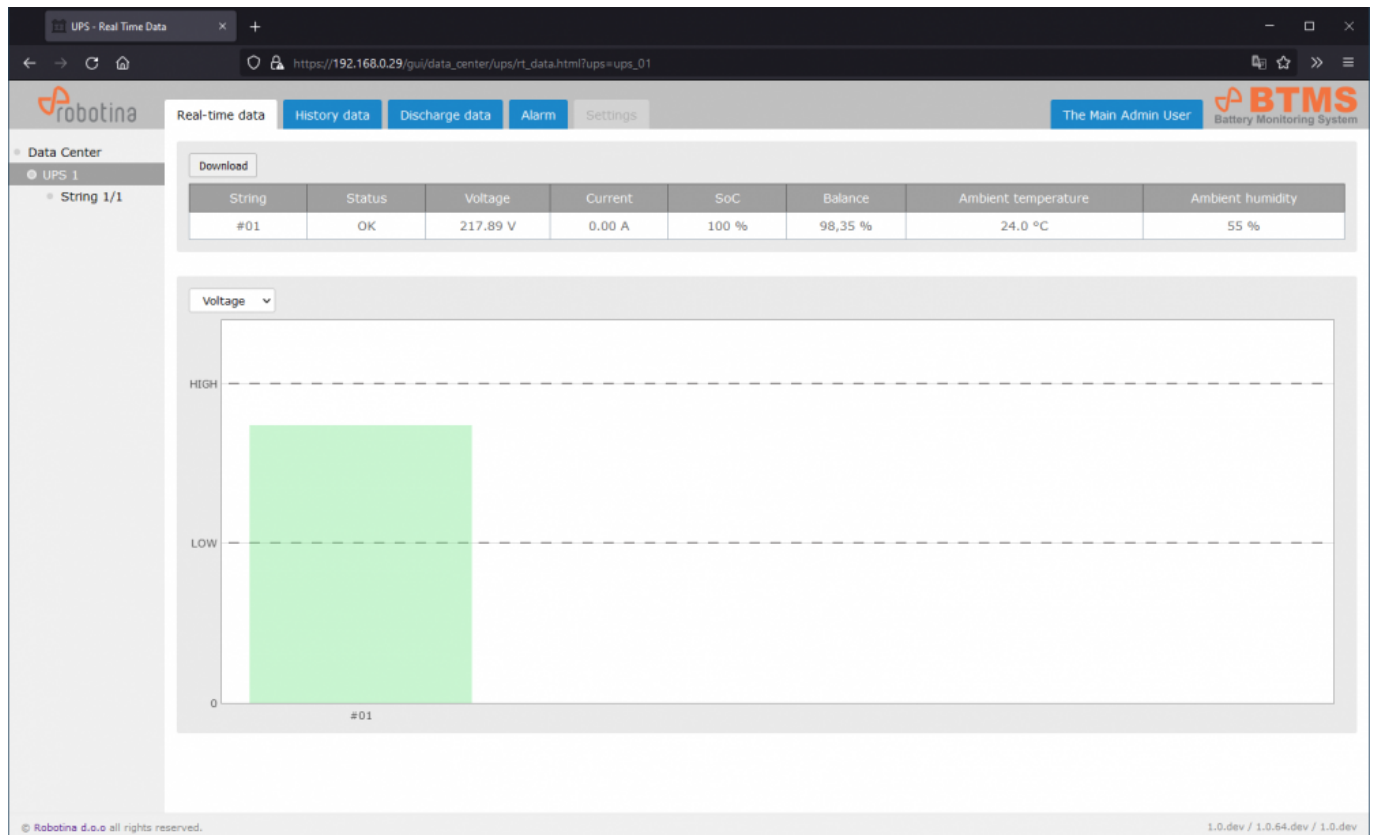
New data export

File	Size	Time
No data exports available		

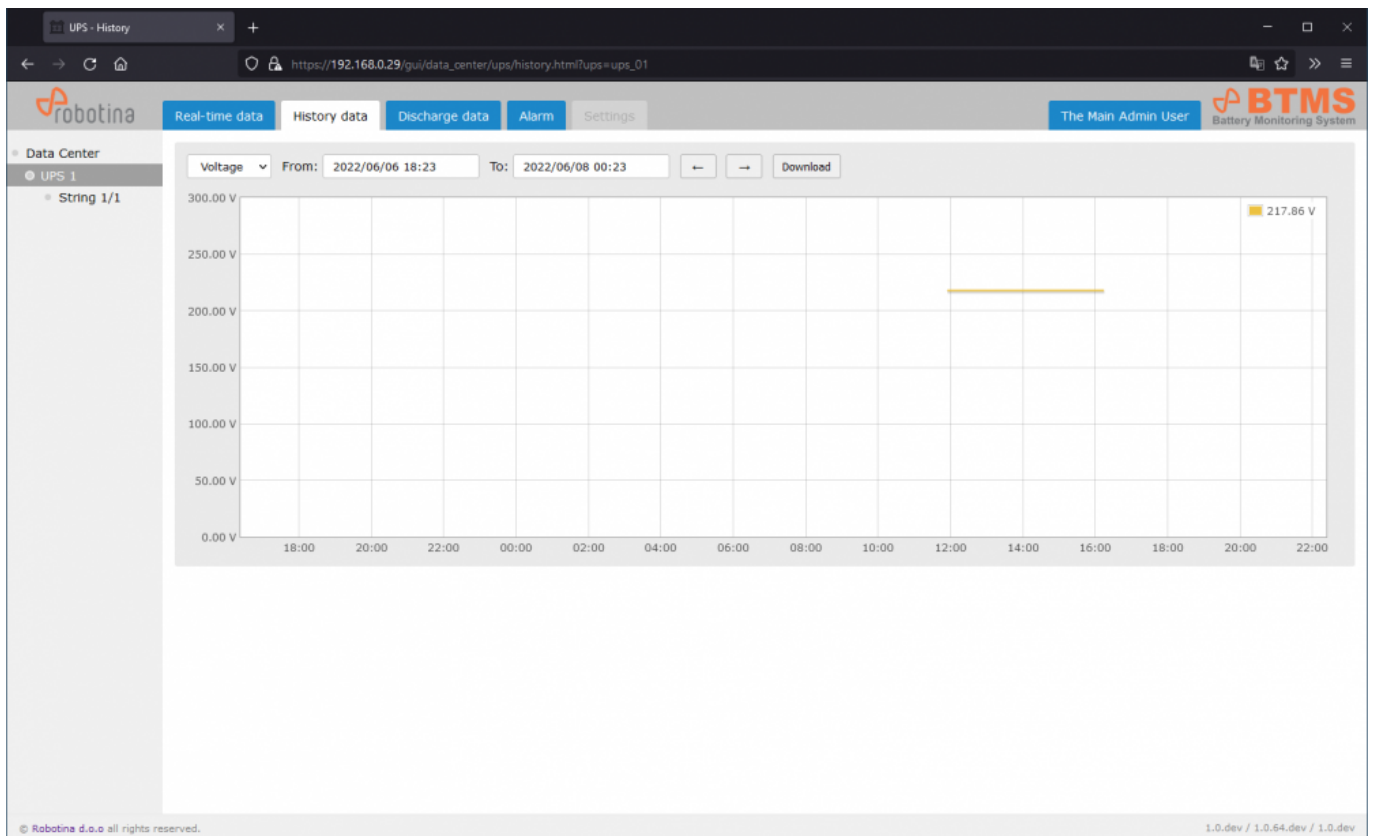
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UPS

Real-time data



History data



Discharge data

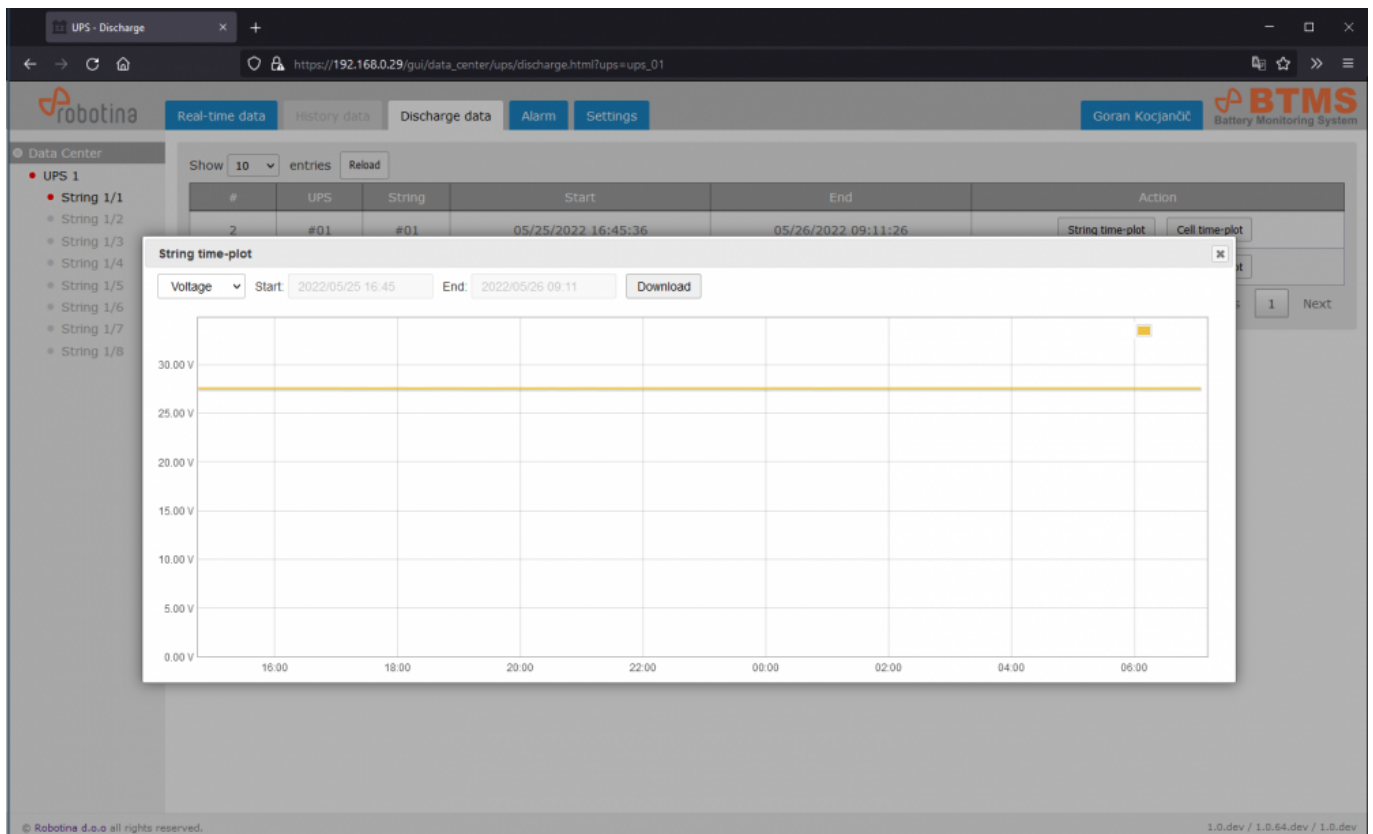
The screenshot shows the 'Discharge data' tab. The table displays two entries of discharge data for UPS 1, String 1/1. The table has columns for '#', 'UPS', 'String', 'Start', 'End', and 'Action'. The 'Action' column contains buttons for 'String time-plot' and 'Cell time-plot'.

#	UPS	String	Start	End	Action
2	#01	#01	05/25/2022 16:45:36	05/26/2022 09:11:26	String time-plot Cell time-plot
1	#01	#01	05/25/2022 12:07:23	05/25/2022 12:25:33	String time-plot Cell time-plot

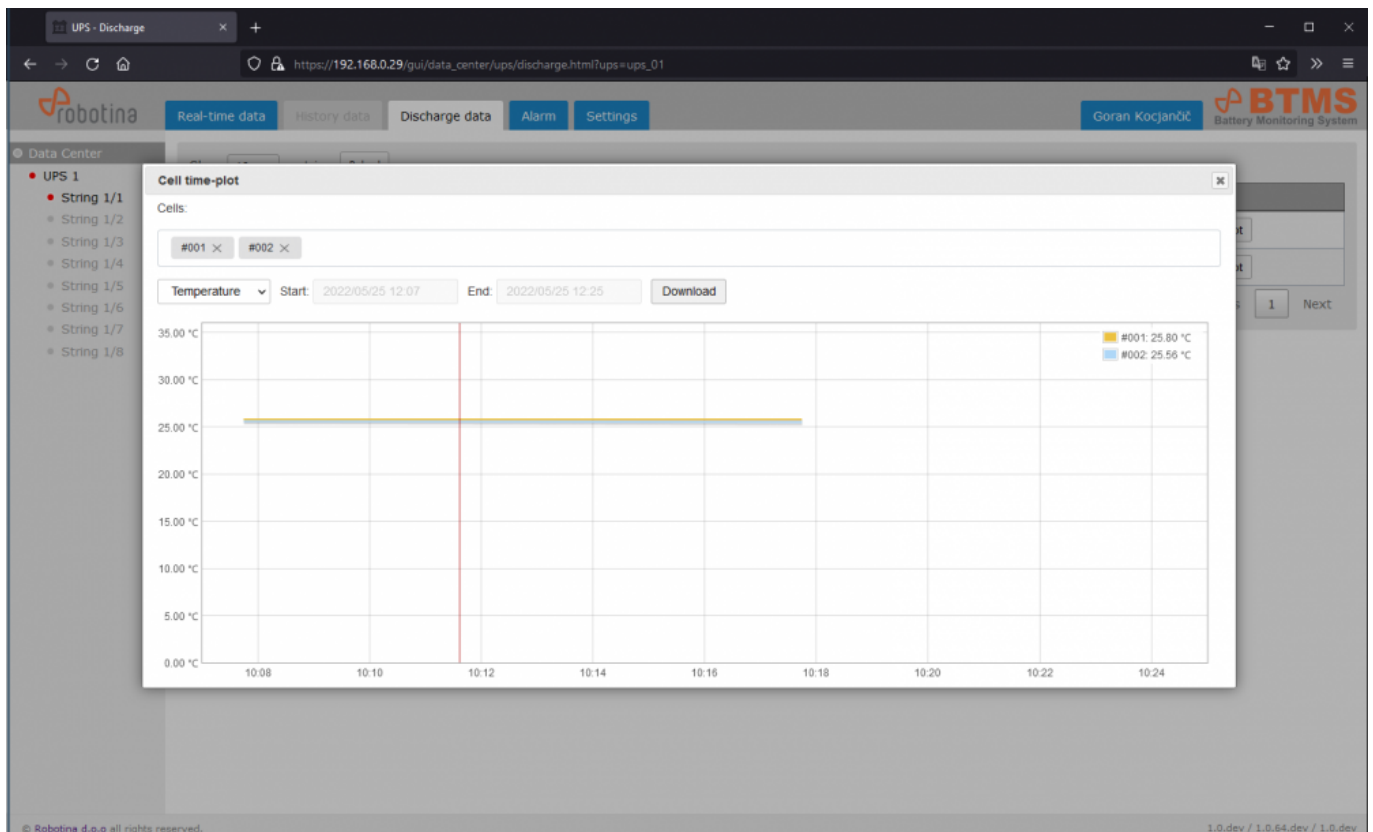
Showing 1 to 2 of 2 entries

Previous 1 Next

String time-plot



Cell time-plot



Alarm

UPS - Alarms

https://192.168.0.29/gui/data_center/ups/alarms/alarms.html?ups=ups_01

robotina

Real-time data | History data | Discharge data | **Alarm** | Settings

The Main Admin User | BTMS Battery Monitoring System

Data Center

UPS 1

String 1/1

Show 10 entries | Reload | Download

#	String	Cell	From	To	Alarm	Status
14	#01	#001	06/07/2022 14:22:20		Temperature high	active
13	#01		06/06/2022 13:35:56	06/06/2022 13:38:24	Current low (discharging)	gone
12	#01		06/06/2022 13:29:16	06/06/2022 13:38:24	Current high (charging)	gone
11	#01		06/06/2022 13:14:48	06/06/2022 13:28:41	Voltage low	gone
10	#01		06/06/2022 13:14:48	06/06/2022 13:28:41	Voltage high	gone
9	#01		06/06/2022 13:14:48	06/06/2022 13:28:41	Current low (discharging)	gone
8	#01		06/06/2022 13:14:48	06/06/2022 13:28:41	Current high (charging)	gone
7	#01		06/06/2022 13:00:19	06/06/2022 13:00:51	Voltage low	gone
6	#01		06/06/2022 12:43:25	06/06/2022 13:00:51	Voltage high	gone
5	#01		06/06/2022 12:43:25	06/06/2022 13:00:51	Current low (discharging)	gone

Showing 1 to 10 of 14 entries

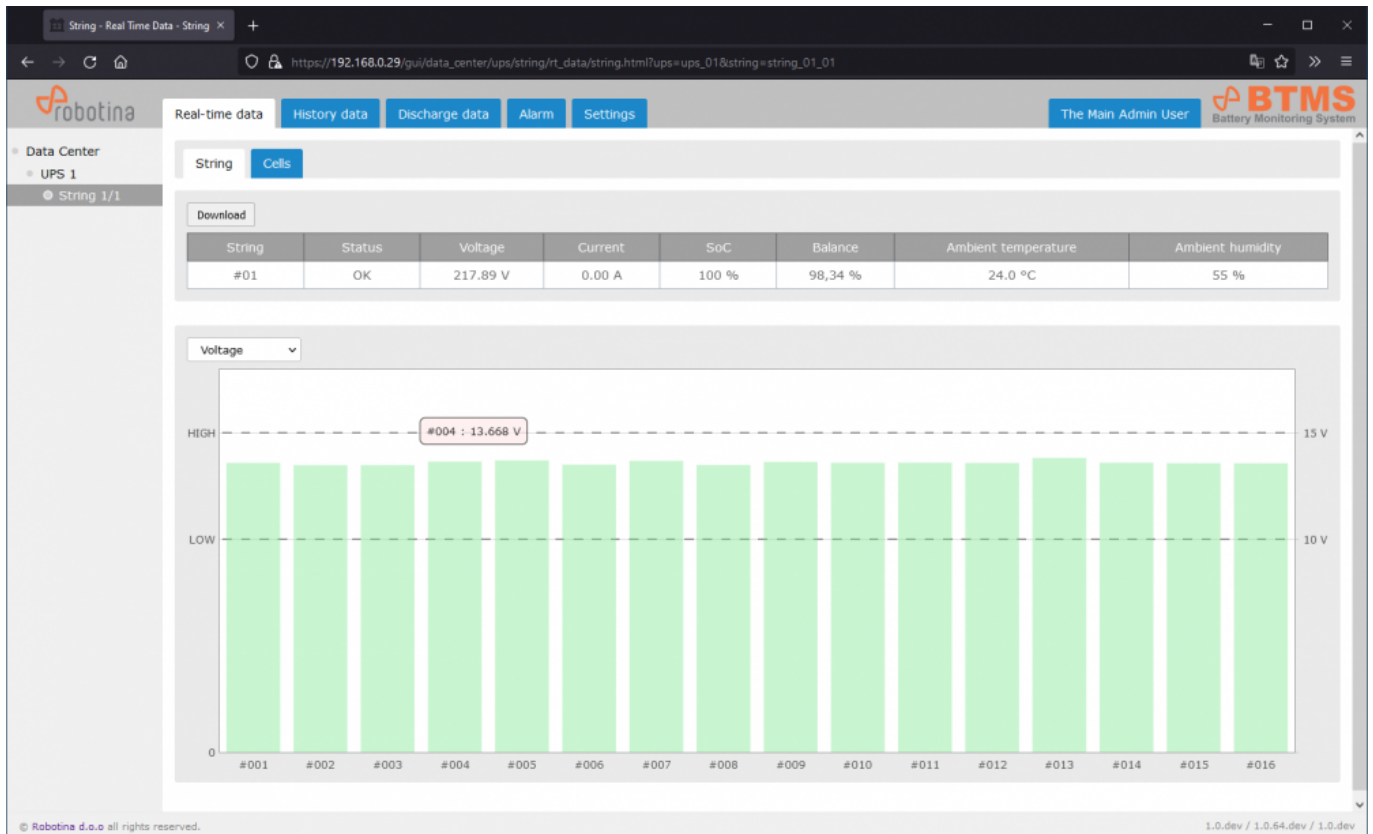
Previous 1 2 Next

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String

Real-time data

String



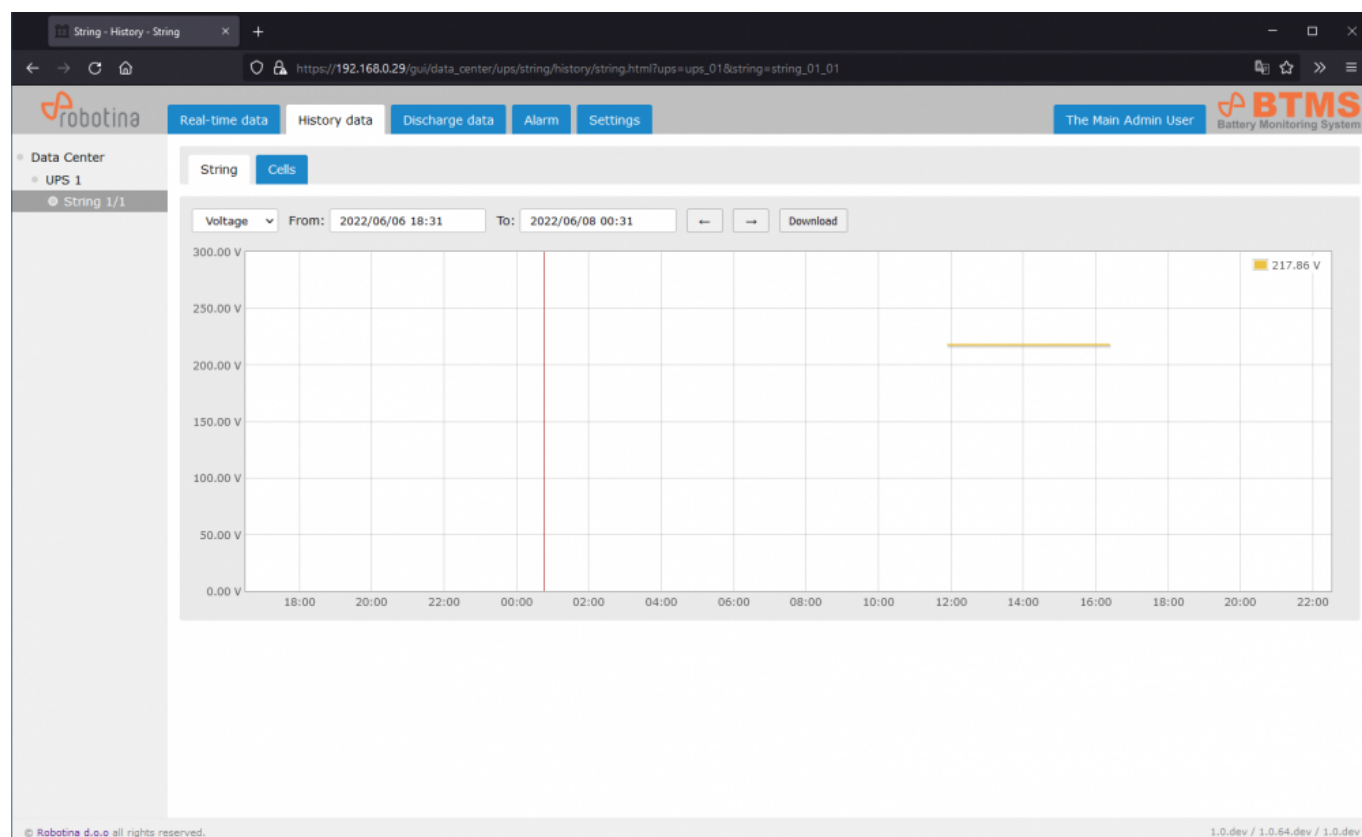
Cells

Cell	Status	Voltage	Resistance	Temperature	SoC	SoH
#001	OK	13.611 V	18.036 mΩ	300.0 °C	100 %	76 %
#002	OK	13.502 V	16.718 mΩ	300.0 °C	100 %	79 %
#003	OK	13.506 V	16.674 mΩ	300.0 °C	100 %	79 %
#004	OK	13.666 V	15.875 mΩ	300.0 °C	100 %	81 %
#005	OK	13.725 V	15.655 mΩ	300.0 °C	100 %	82 %
#006	OK	13.529 V	15.439 mΩ	300.0 °C	100 %	82 %
#007	OK	13.703 V	15.058 mΩ	300.0 °C	100 %	83 %
#008	OK	13.512 V	18.096 mΩ	300.0 °C	100 %	76 %
#009	OK	13.655 V	15.747 mΩ	300.0 °C	100 %	82 %
#010	OK	13.611 V	15.647 mΩ	300.0 °C	100 %	82 %

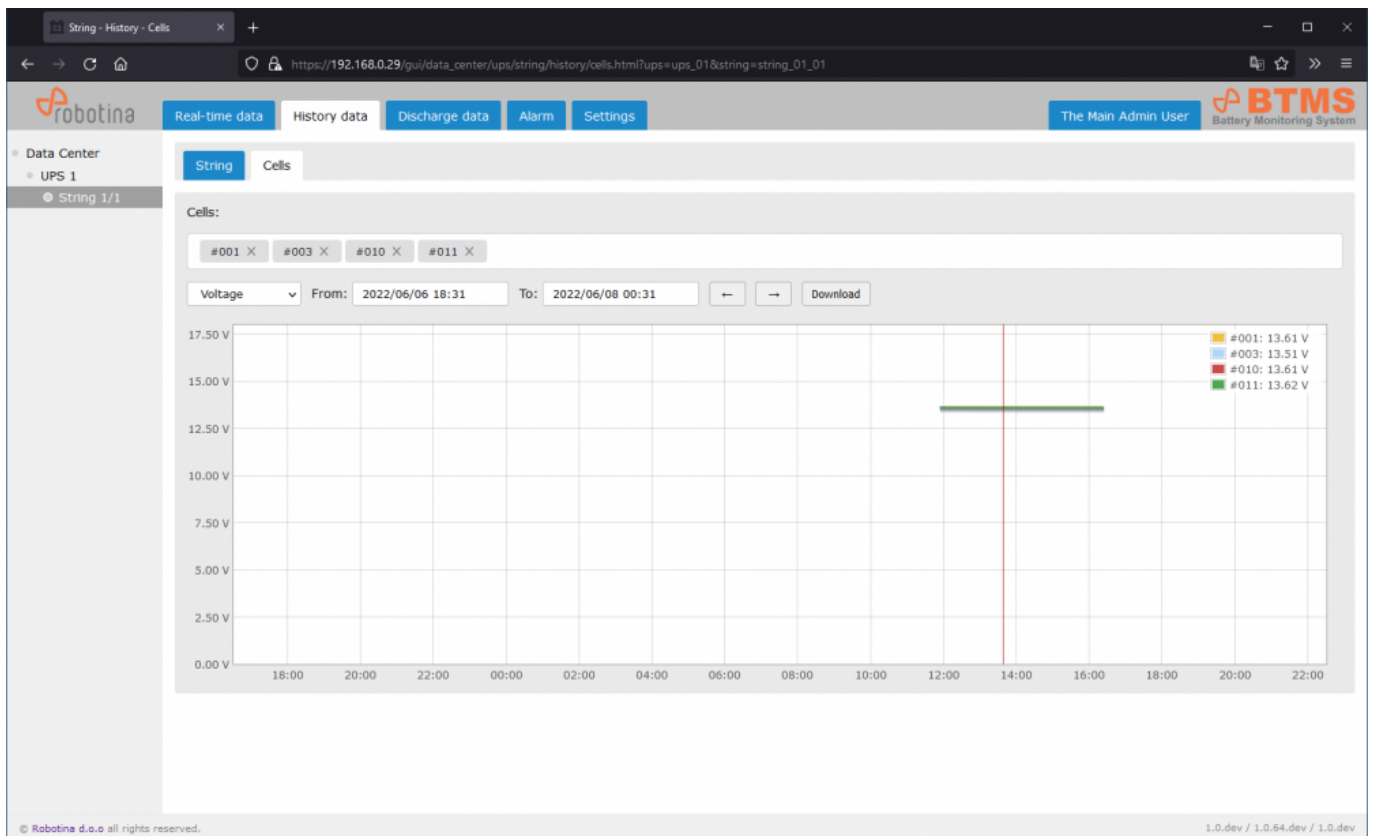
Showing 1 to 10 of 16 entries

History data

String



Cells



Discharge data

String - Discharge

https://192.168.0.29/gui/data_center/ups/string/discharge.html?ups=ups_01&string=string_01_01

Robotina BTMS Battery Monitoring System

Goran Kocjančič

Real-time data History data Discharge data Alarm Settings

Data Center

UPS 1

String 1/1

String 1/2

String 1/3

String 1/4

String 1/5

String 1/6

String 1/7

String 1/8

Show 10 entries

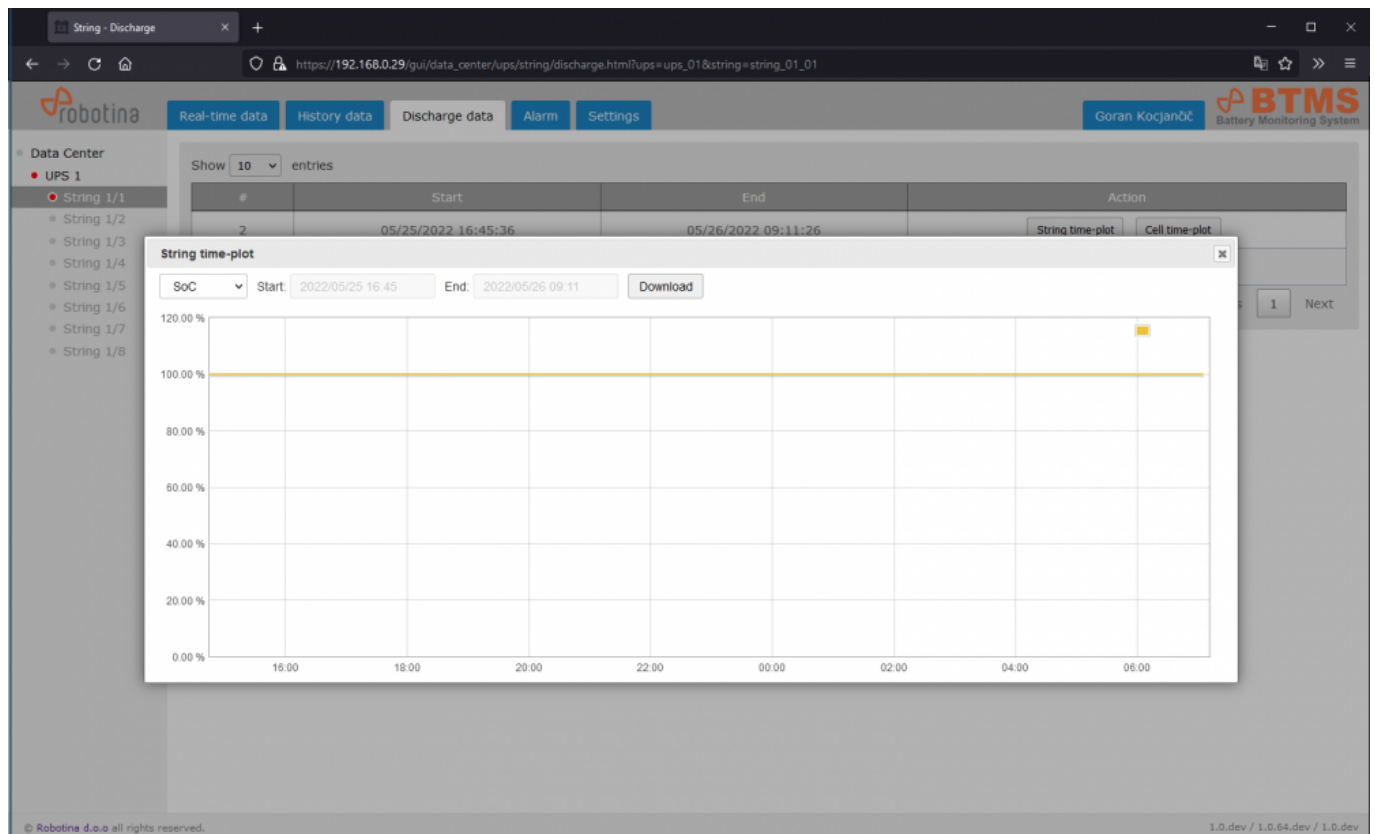
#	Start	End	Action
2	05/25/2022 16:45:36	05/26/2022 09:11:26	String time-plot Cell time-plot
1	05/25/2022 12:07:23	05/25/2022 12:25:33	String time-plot Cell time-plot

Showing 1 to 2 of 2 entries

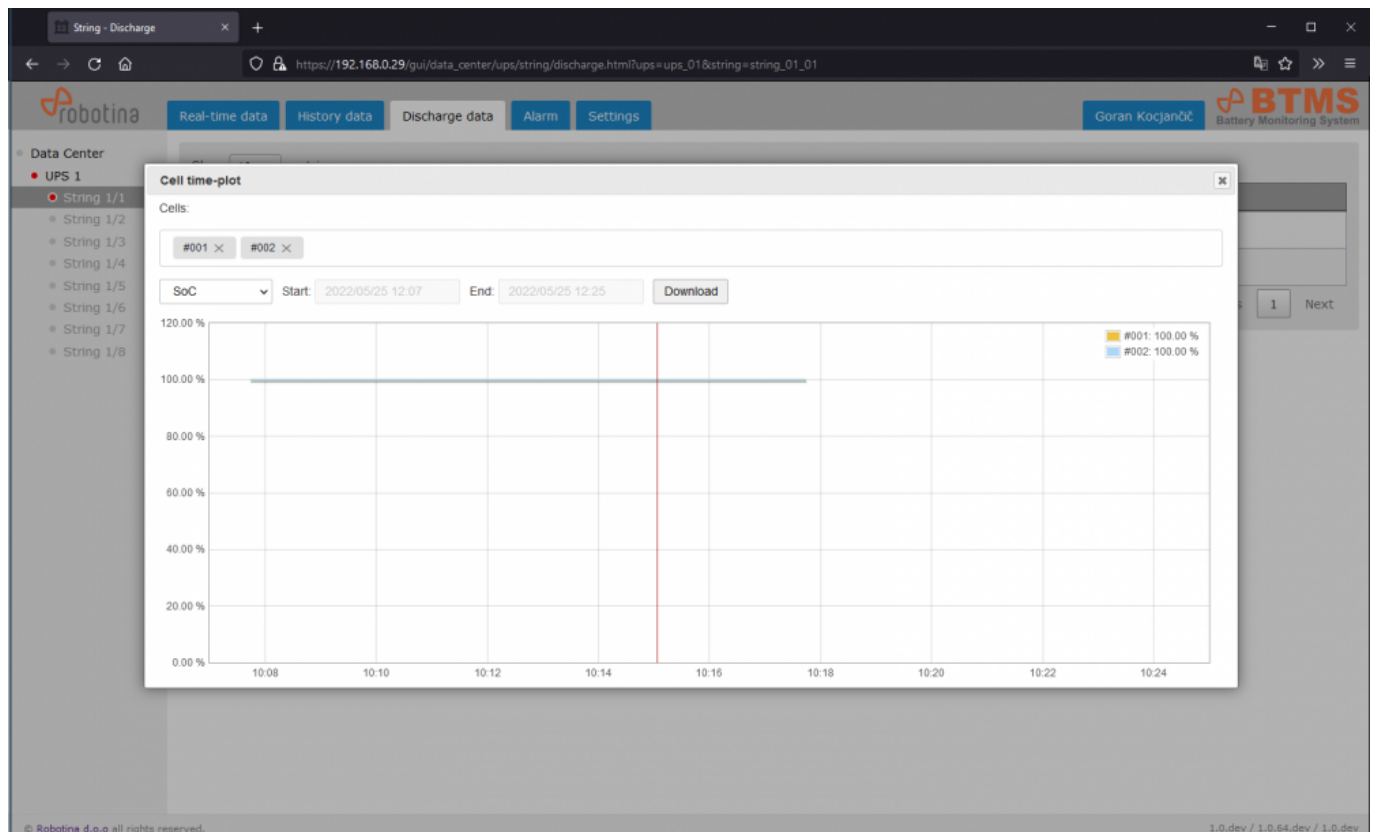
Previous 1 Next

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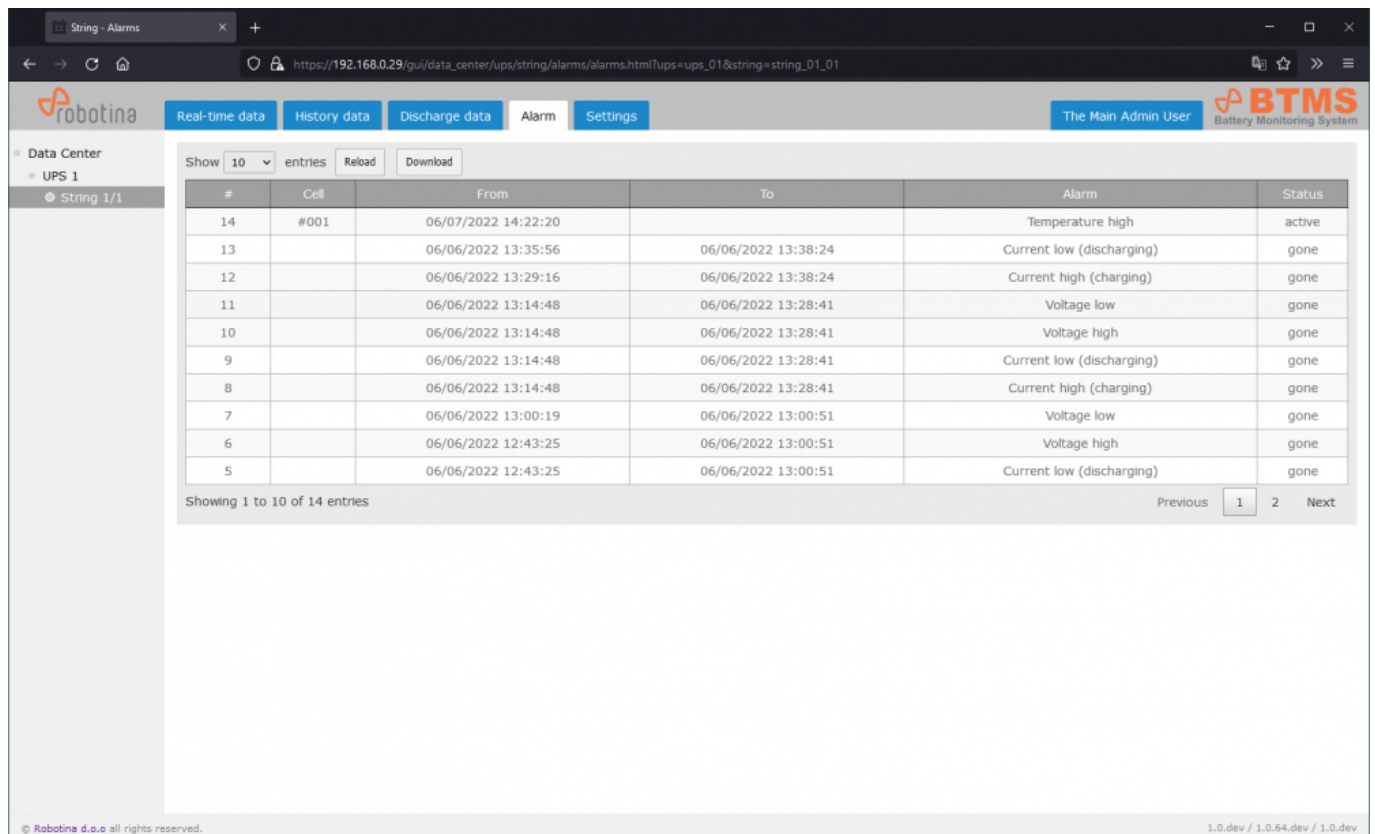
String time-plot



Cell time-plot



Alarm



String - Alarms

https://192.168.0.29/gui/data_center/ups/string/alarms/alarms.html?ups=ups_01&string=string_01_01

robotina | Real-time data | History data | Discharge data | **Alarm** | Settings | The Main Admin User | BTMS Battery Monitoring System

Data Center
UPS 1
String 1/1

Show 10 entries Reload Download

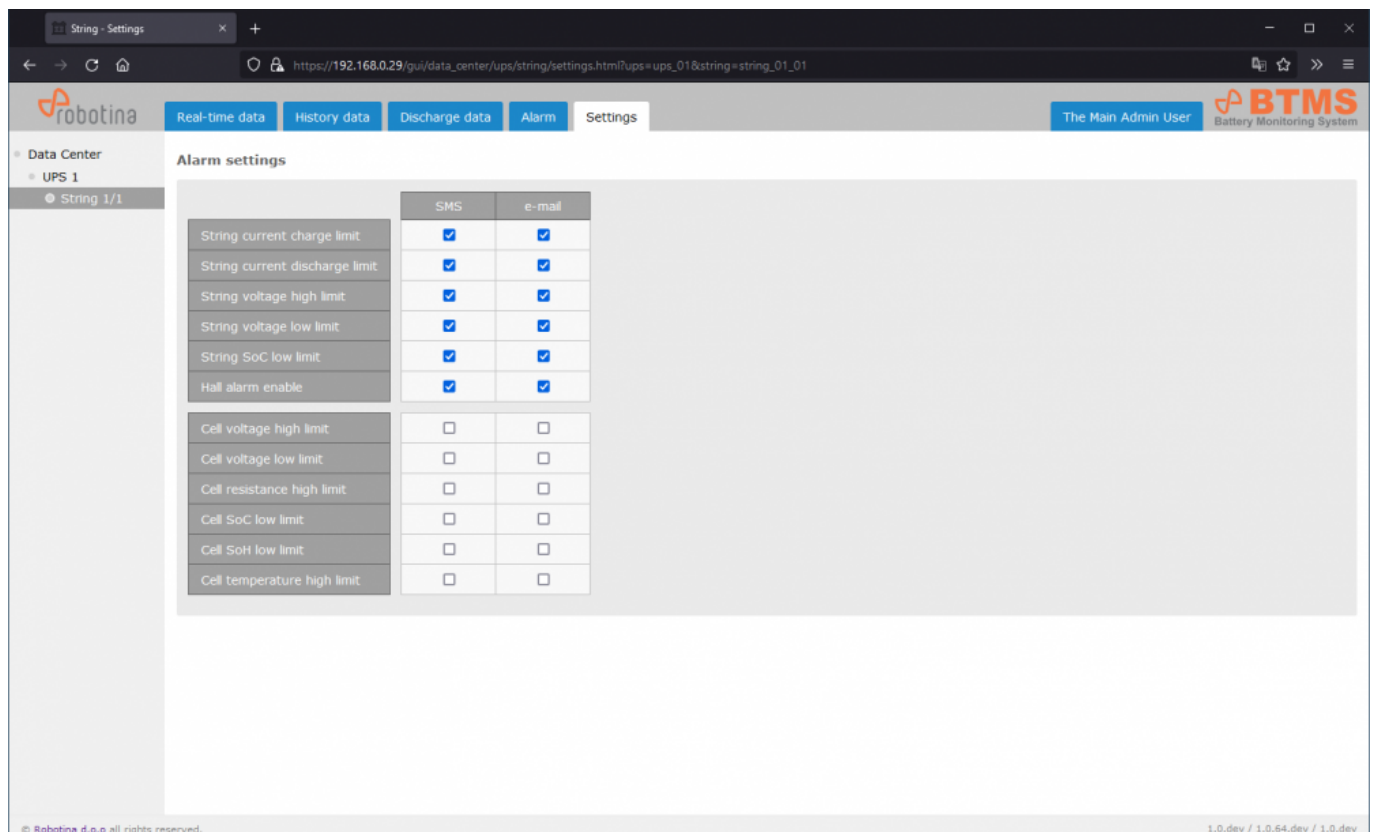
#	Cell	From	To	Alarm	Status
14	#001	06/07/2022 14:22:20		Temperature high	active
13		06/06/2022 13:35:56	06/06/2022 13:38:24	Current low (discharging)	gone
12		06/06/2022 13:29:16	06/06/2022 13:38:24	Current high (charging)	gone
11		06/06/2022 13:14:48	06/06/2022 13:28:41	Voltage low	gone
10		06/06/2022 13:14:48	06/06/2022 13:28:41	Voltage high	gone
9		06/06/2022 13:14:48	06/06/2022 13:28:41	Current low (discharging)	gone
8		06/06/2022 13:14:48	06/06/2022 13:28:41	Current high (charging)	gone
7		06/06/2022 13:00:19	06/06/2022 13:00:51	Voltage low	gone
6		06/06/2022 12:43:25	06/06/2022 13:00:51	Voltage high	gone
5		06/06/2022 12:43:25	06/06/2022 13:00:51	Current low (discharging)	gone

Showing 1 to 10 of 14 entries

Previous 1 2 Next

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Settings



String - Settings

https://192.168.0.29/gui/data_center/ups/string/settings.html?ups=ups_01&string=string_01_01

robotina | Real-time data | History data | Discharge data | Alarm | **Settings** | The Main Admin User | BTMS Battery Monitoring System

Data Center
UPS 1
String 1/1

Alarm settings

	SMS	e-mail
String current charge limit	☒	☒
String current discharge limit	☒	☒
String voltage high limit	☒	☒
String voltage low limit	☒	☒
String SoC low limit	☒	☒
Hall alarm enable	☒	☒
Cell voltage high limit	☐	☐
Cell voltage low limit	☐	☐
Cell resistance high limit	☐	☐
Cell SoC low limit	☐	☐
Cell SoH low limit	☐	☐
Cell temperature high limit	☐	☐

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Enable for which alarm SMS / e-mail will be sent.