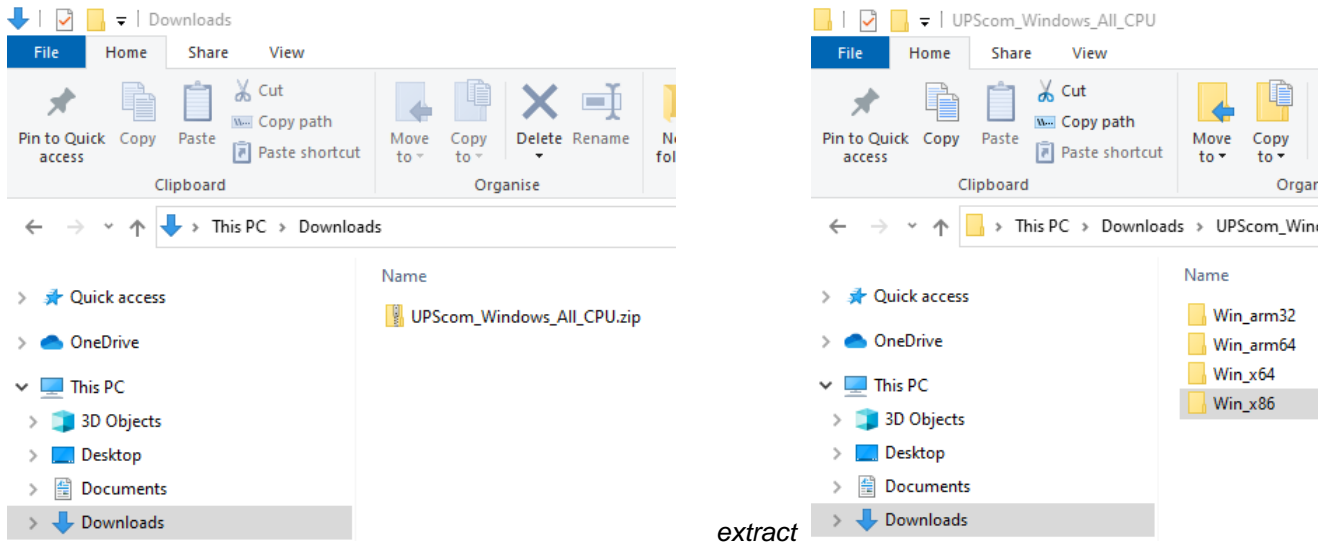


# Quick installation guide for UPScom

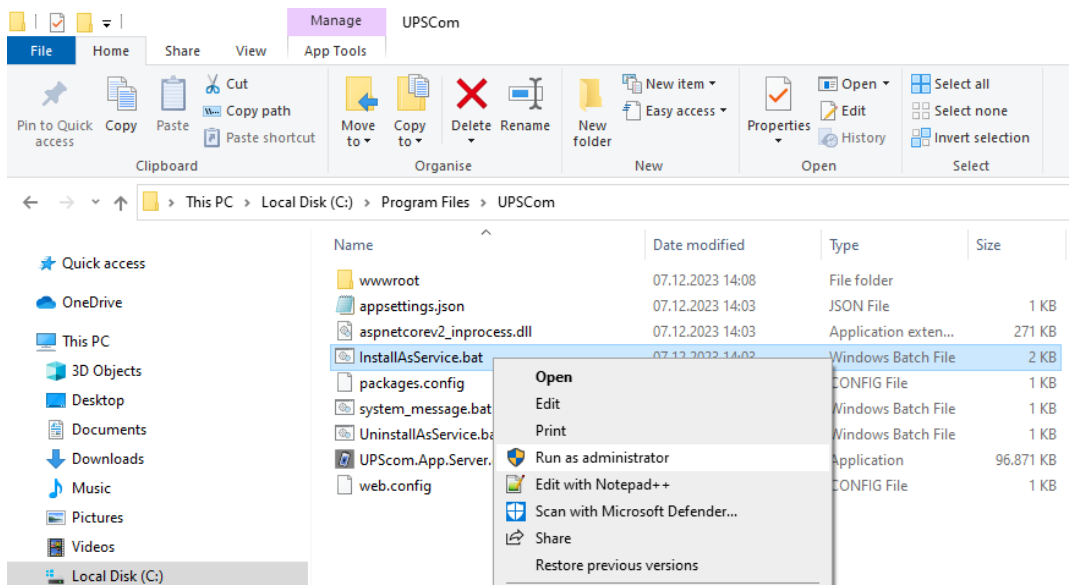
[UPSI-2406DP1](#) in conjunction with UPScom V1.0.0.1 under **MS Windows 10**.

Download UPScom software [here](#).

Extract the file and select the required processor architecture.

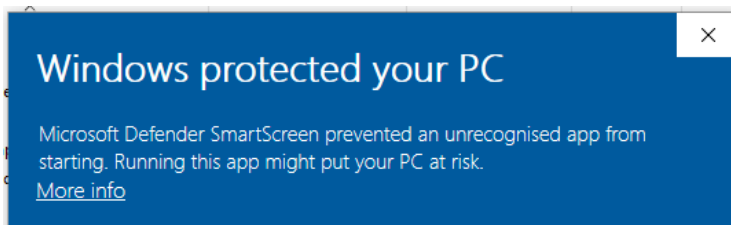


Copy files from selected folder to a newly created folder, for example to → C:\Program Files\UPScom



Install the program as a service.

File **InstallAsService** → Right Click → Run as an administrator



[More info](#) → Run

anyway → YES

```
C:\WINDOWS\System32\cmd.exe
Create new service 'UPScom'...
[SC] CreateService SUCCESS
Add description to service 'UPScom'...
[SC] ChangeServiceConfig2 SUCCESS
Configure service 'UPScom' failure handling...
[SC] ChangeServiceConfig2 SUCCESS
Start service 'UPScom'...

SERVICE_NAME: UPScom
        TYPE               : 10  WIN32_OWN_PROCESS
        STATE                : 2   START_PENDING
                (NOT_STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
        WIN32_EXIT_CODE       : 0    (0x0)
        SERVICE_EXIT_CODE    : 0    (0x0)
        CHECKPOINT           : 0x0
        WAIT_HINT            : 0x7d0
        PID                 : 500
        FLAGS                 :
Press any key to continue . . .
```

After installation → Press any key to continue...

The UPS service will start automatically.

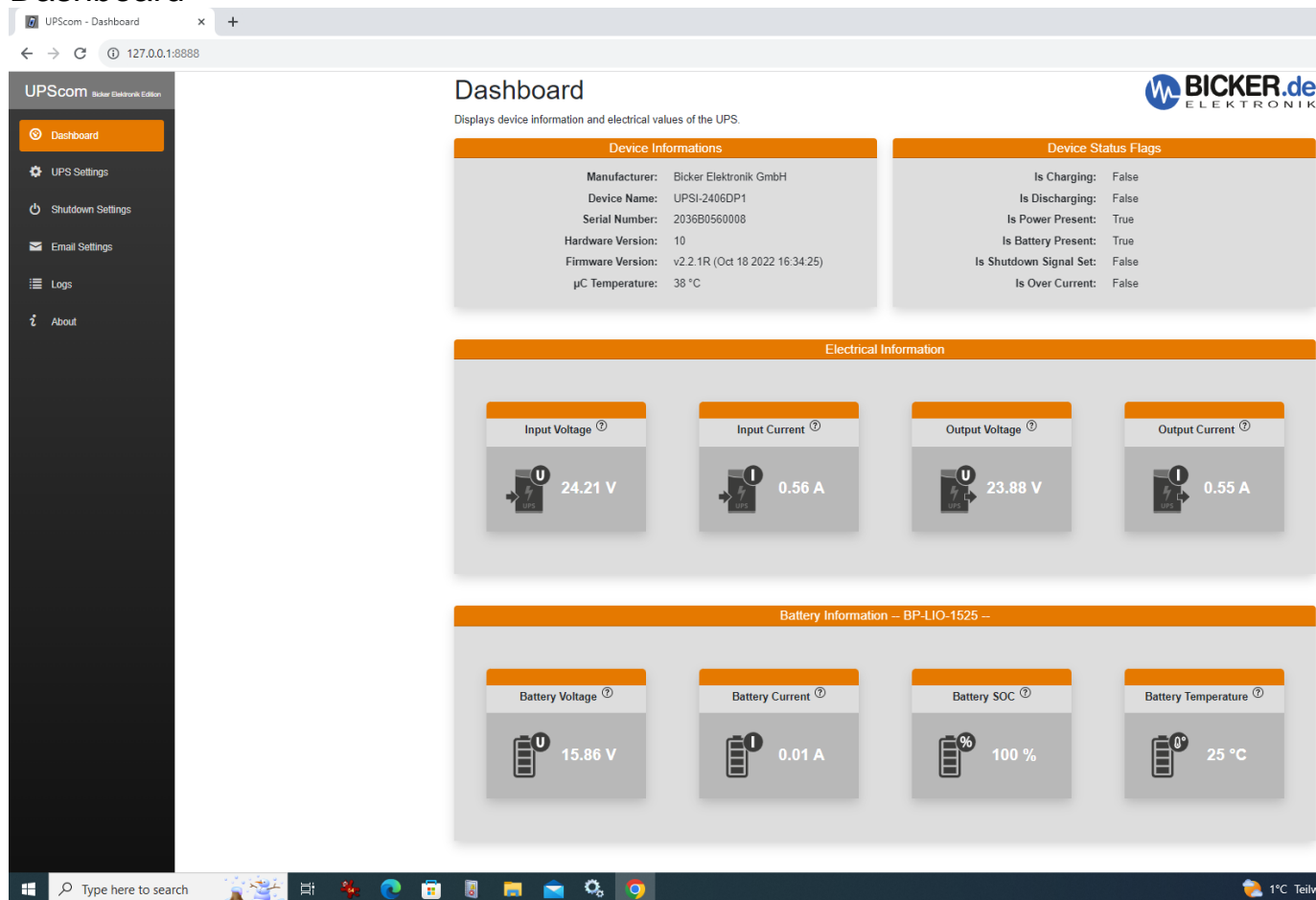
**Tip!**

UPScom can also be tested for evaluation purposes without installing the service. To do this, right-click on file UPScom.App.Server.exe, then run as administrator.

## User interface

To access the user interface, open your web browser and enter → 127.0.0.1:8888 or localhost:8888

## Dashboard



The screenshot shows the UPScom Dashboard web interface. The dashboard is divided into several sections:

- Device Informations:**
  - Manufacturer: Bicker Elektronik GmbH
  - Device Name: UPSI-2406DP1
  - Serial Number: 2036B0560008
  - Hardware Version: 10
  - Firmware Version: v2.2.1R (Oct 18 2022 16:34:25)
  - µC Temperature: 38 °C
- Device Status Flags:**
  - Is Charging: False
  - Is Discharging: False
  - Is Power Present: True
  - Is Battery Present: True
  - Is Shutdown Signal Set: False
  - Is Over Current: False
- Electrical Information:**
  - Input Voltage: 24.21 V
  - Input Current: 0.56 A
  - Output Voltage: 23.88 V
  - Output Current: 0.55 A
- Battery Information – BP-LIO-1525 –:**
  - Battery Voltage: 15.86 V
  - Battery Current: 0.01 A
  - Battery SOC: 100 %
  - Battery Temperature: 25 °C

### Device Information

Manufacturer: Bicker Elektronik GmbH

Device Name: The connected UPS → UPSI-2406DP1 or another model from Bicker Elektronik GmbH will be displayed. For DC2412-12UPSx or UPSIC-xxxx series → UPSIC Series will be shown.

Serial number/ Hardware Version/ Firmware Version/ µC Temperature from Device will be shown.

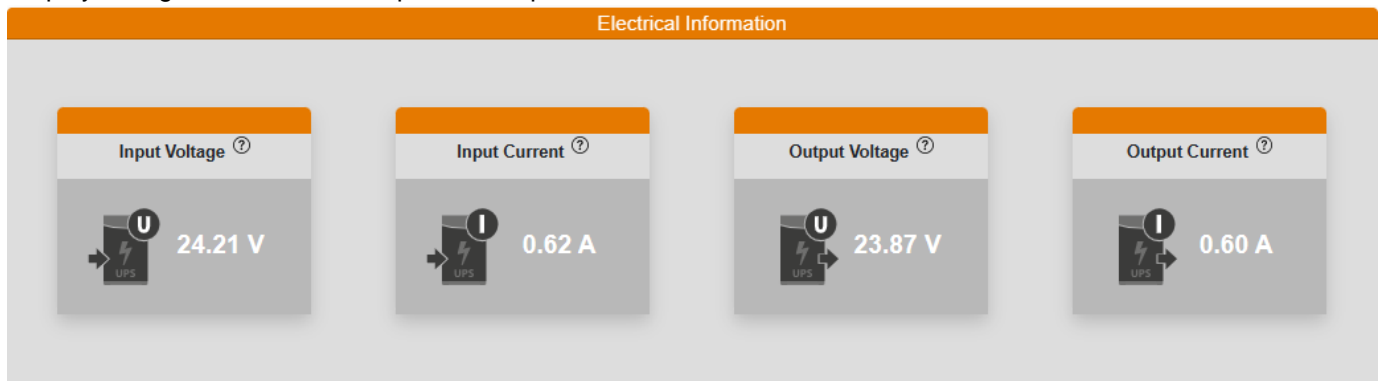
### Device Status Flags

Show information via “False” and “True”

Is Charging	False: Energy storage will not be charged.	True: Energy storage will be charged.
Is Discharging	False: Energy storage will not be discharged.	True: Energy storage will be discharged.
Is Power present	True: UPS will be powered from source.	False: DC in or source fail.
Is Battery Present	True: Battery is connected.	False: Battery is disconnected.
Is Shutdown Signal set	True: Shutdown signal set.	False: Shutdown Signal not set.
Is Over Current	False: no over current at output.	True: Overcurrent at output.

## Electrical information

Display voltage and current for input and output.



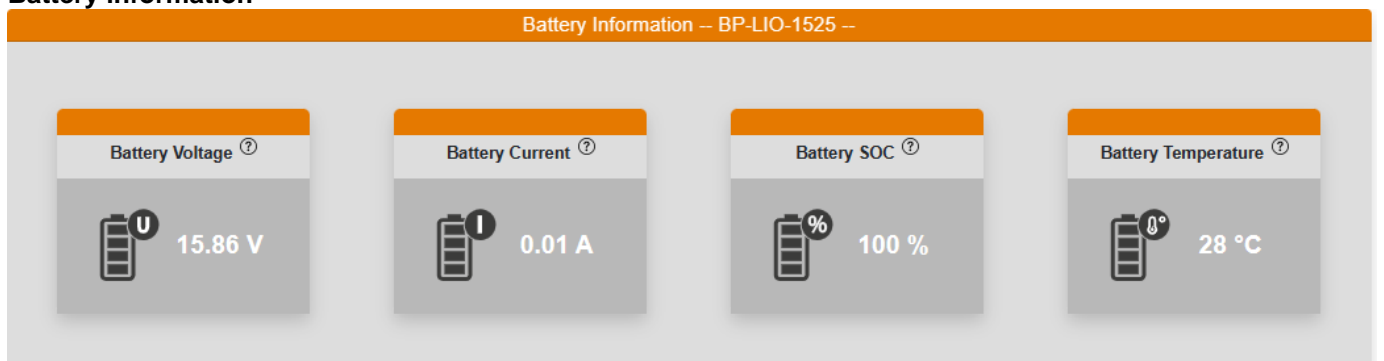
Input Voltage: Shows the actual input voltage of the UPS.

Input current: Shows the actual input current of the UPS.

Output voltage: Shows the actual output voltage of the UPS.

Output current: Shows the actual output current of the UPS.

## Battery information



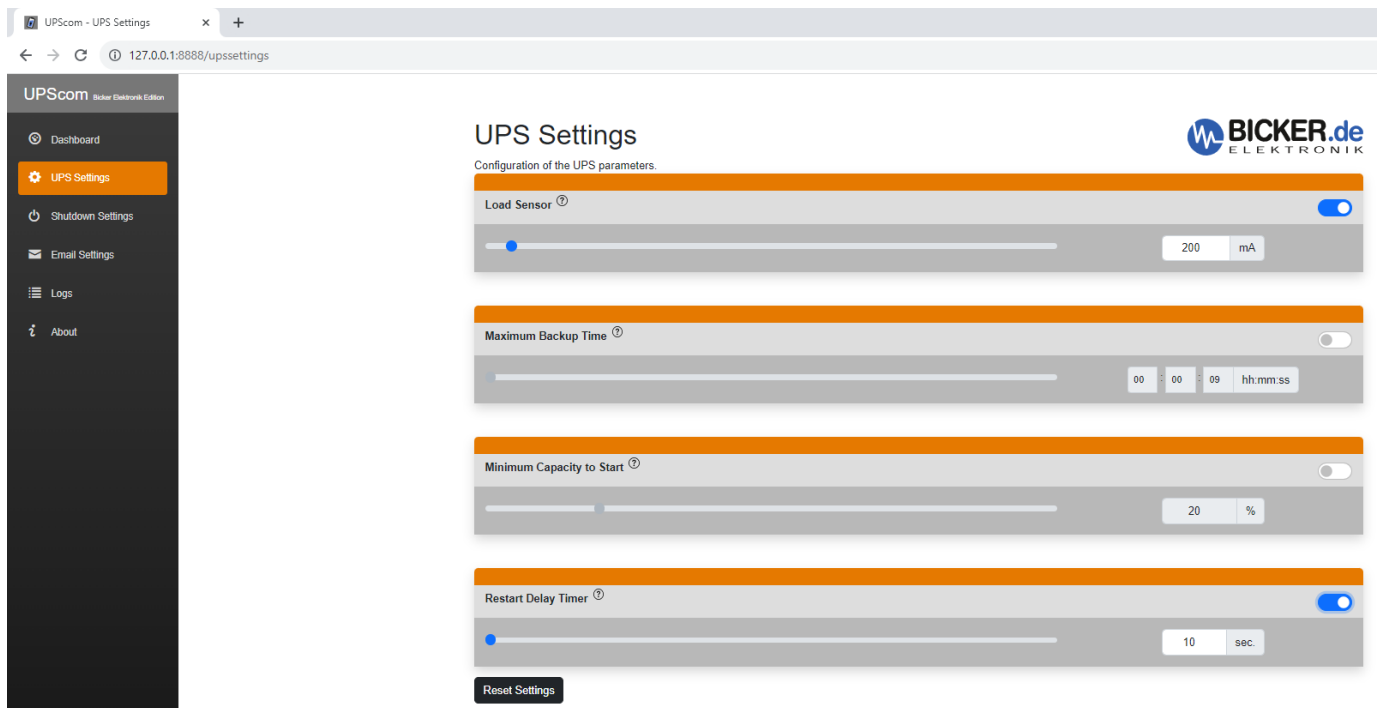
Battery Voltage: Shows the actual battery voltage of the battery or energy storage.

Battery Current: Shows the actual battery current of the battery or energy storage. A negative value indicates discharge.

Battery SOC: Shows the actual **State of Charge** of the battery or energy storage.

Battery Temperature: Shows the actual battery temperature.

# UPS Settings



## Load Sensor

When enabled, the load sensor will switch off the UPS when DC input fails, and the load falls below the set value from the load sensor.

Example:

If a PC is connected to the output of the UPS, the load sensor must be adjusted below the **IDLE power** and above the **Off-mode** power of the PC.

If your PC consumes 3A in **IDLE Mode** and 0.1A in **Off mode** the load sensor must be set higher than 0.1A.

If a USB or RS232 Interface is connected, additional settings under “Shutdown Settings” are required.

## Maximum Backup Time

When enabled, it will switch of connected load after the set time. This is used for systems without an RS232 or USB interface.

## Minimum Capacity to Start

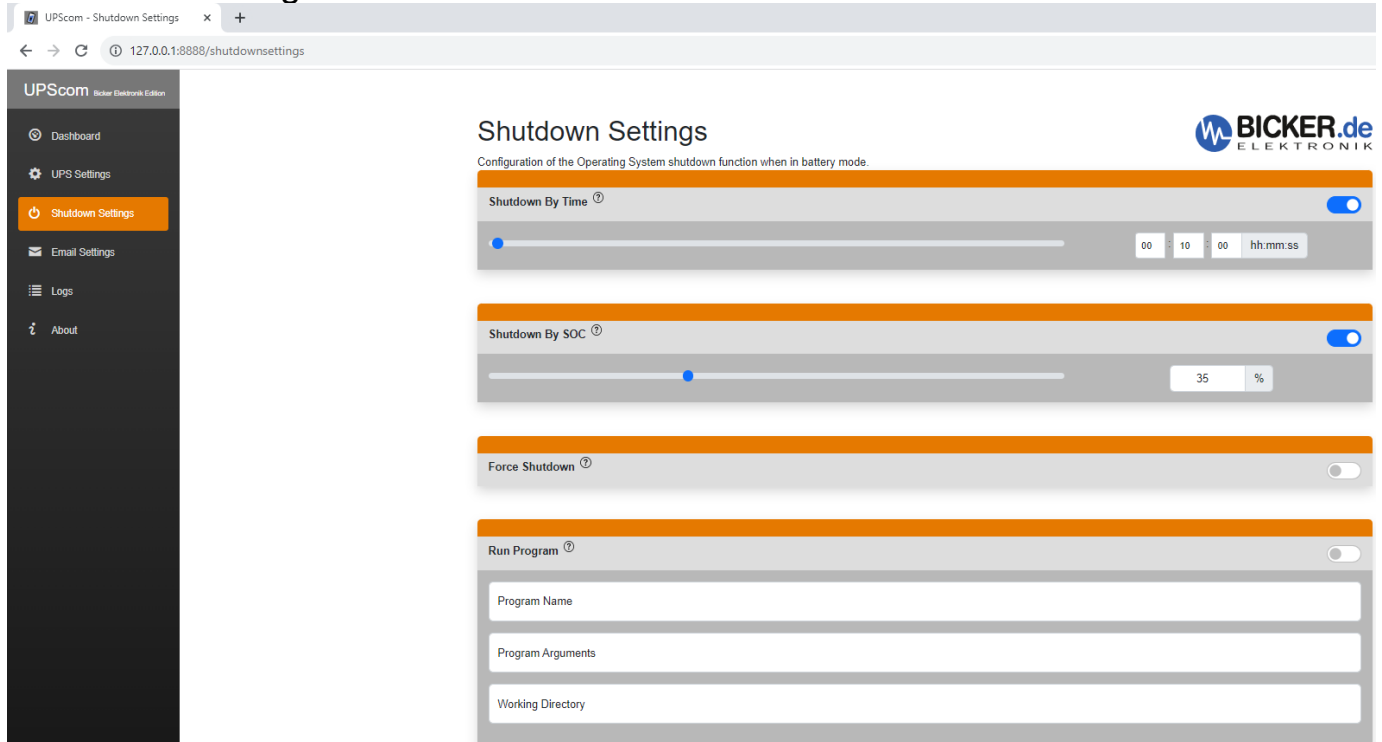
When enabled, it will enable the output of the UPS at x% SOC. It is recommended for use with UPS systems with ultra caps as energy storage. During the initial switch-on of the UPS, super caps must be charged first to supply energy in UPS mode.

For the [PSZ-1063](#) module, which is installed in the UPSIC-xxxx and DC2412-UPSxx, as well as in their DIN rail variants, DIP3 must be set to off (all others DIP on) if the setting is to be used via UPScom.

## Restart Delay Timer

When enabled, it will reboot a PC system if power comes back during the shutdown of the OS, such as Windows. The “Restart Delay Timer” switches off the output of the UPS for the set time. After this time, the output of the UPS will be switched on again, and the PC will restart (maybe BIOS settings needed).

# Shutdown Settings



## Shutdown By Time



When enabled and the UPS is in battery mode, the operating system shuts down when the set time has elapsed. An interface connection via USB or RS232 is needed.

## Shutdown By SOC



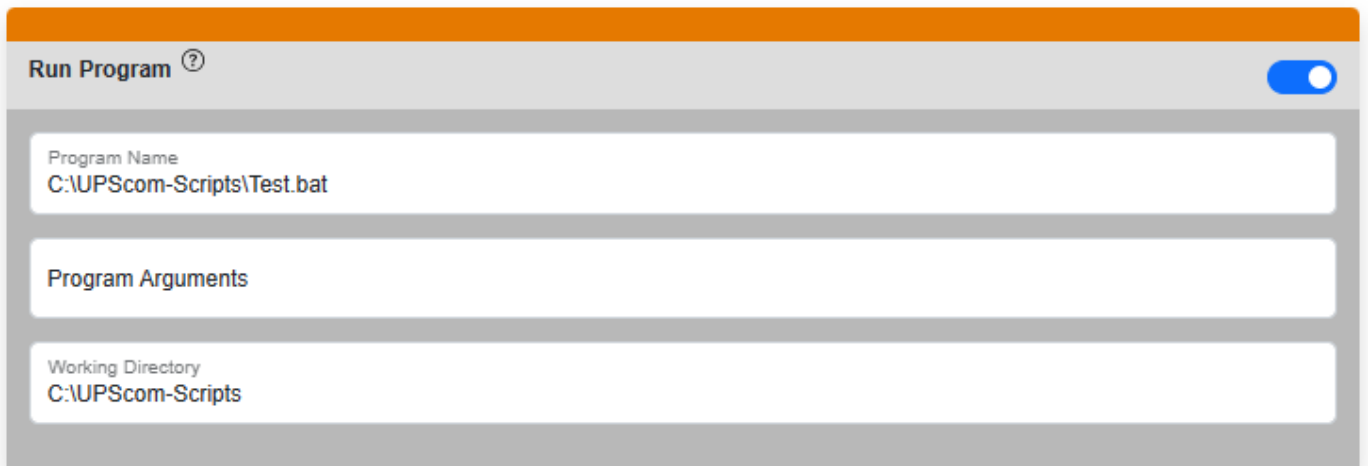
When enabled and the UPS is in battery mode, the operating system shuts down when the set SOC (State of Charge) of energy storage has elapsed. An interface connection via USB or RS232 is needed.

## Force Shutdown



When enabled, open programs that do not close themselves during shutdown will be hard terminated.

## RUN Program

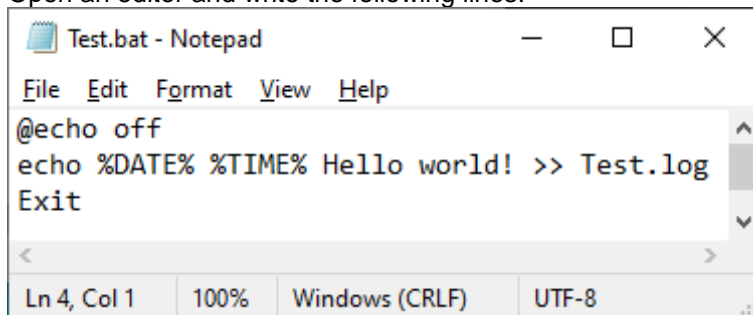


When enabled, it can run a batch or a program after shutdown by time or SOC.

Example:

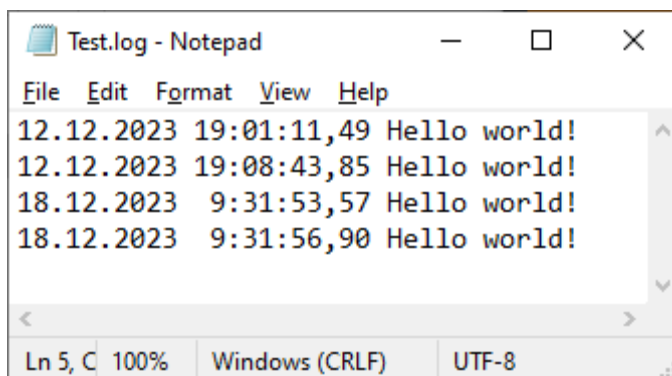
The batch file "Test.bat" will write a timestamp to the file "Test.log" during each shutdown of UPScom.

Open an editor and write the following lines.



```
@echo off
echo %DATE% %TIME% Hello world! >> Test.log
Exit
```

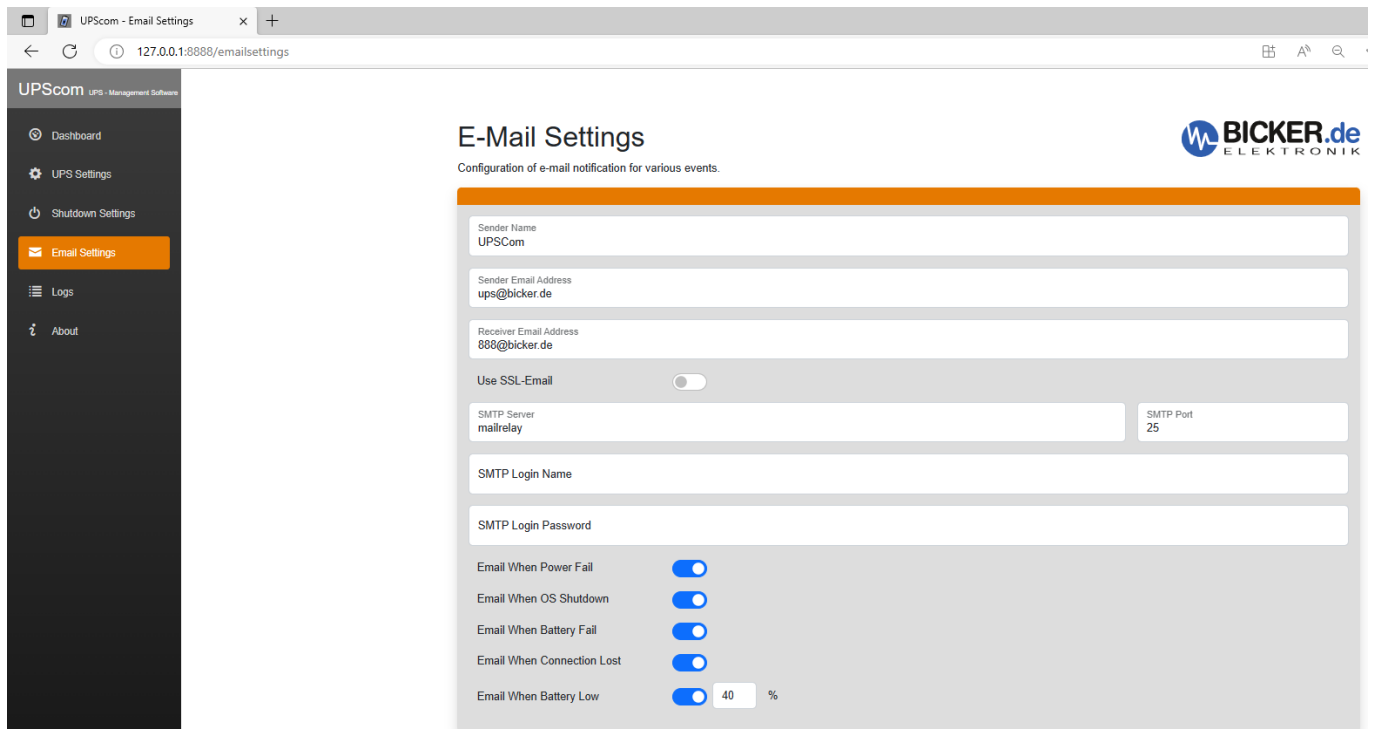
Save it as "Test.bat", for example, in the directory C:\UPScm-Scripts\



```
12.12.2023 19:01:11,49 Hello world!
12.12.2023 19:08:43,85 Hello world!
18.12.2023 9:31:53,57 Hello world!
18.12.2023 9:31:56,90 Hello world!
```

After each Shutdown of UPScom, a time stamp will be written to Test.log

# E Mail Settings



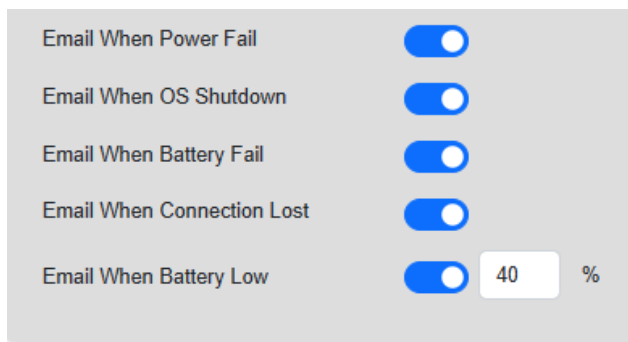
Please contact your admin for the Email settings.

The settings can differ based on whether you have your own PC with an Email server program or an email server in the cloud.

If you have an Email server in the cloud, the "Sender Email Address", "Recipient Email Address" and "SMTP Login Name" could be the same.

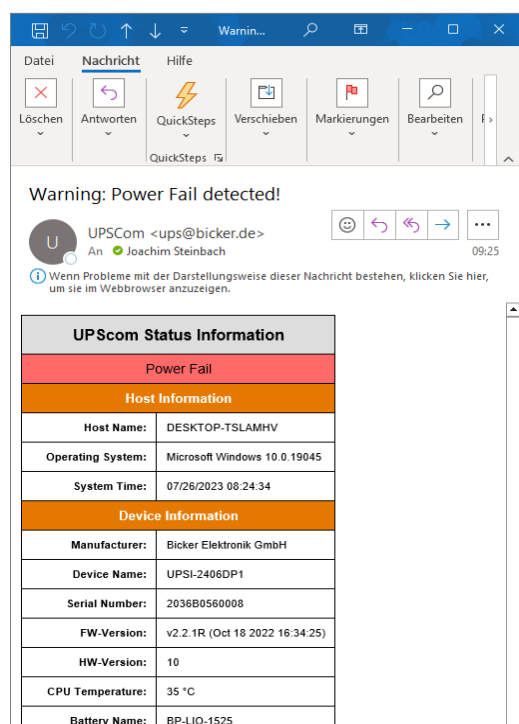
## Email message

A warning message will be sent when enabled in UPSCom Email settings.



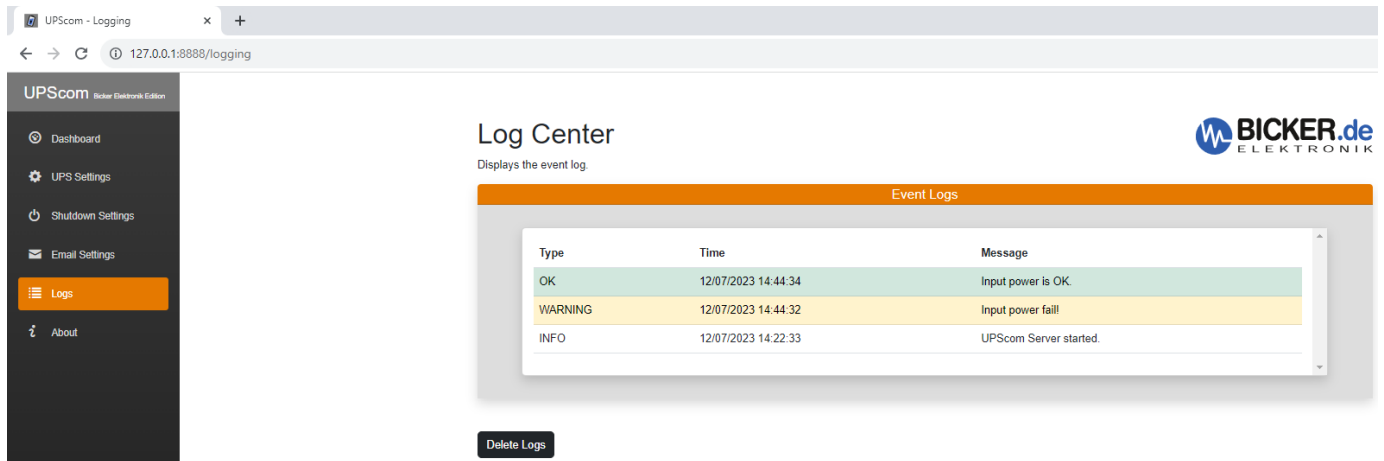
If DC input fails, you will receive a warning message via email: "Warning: Power failure detected."

Emails regarding battery failure will be sent only for UPS units with external batteries!





## Logs



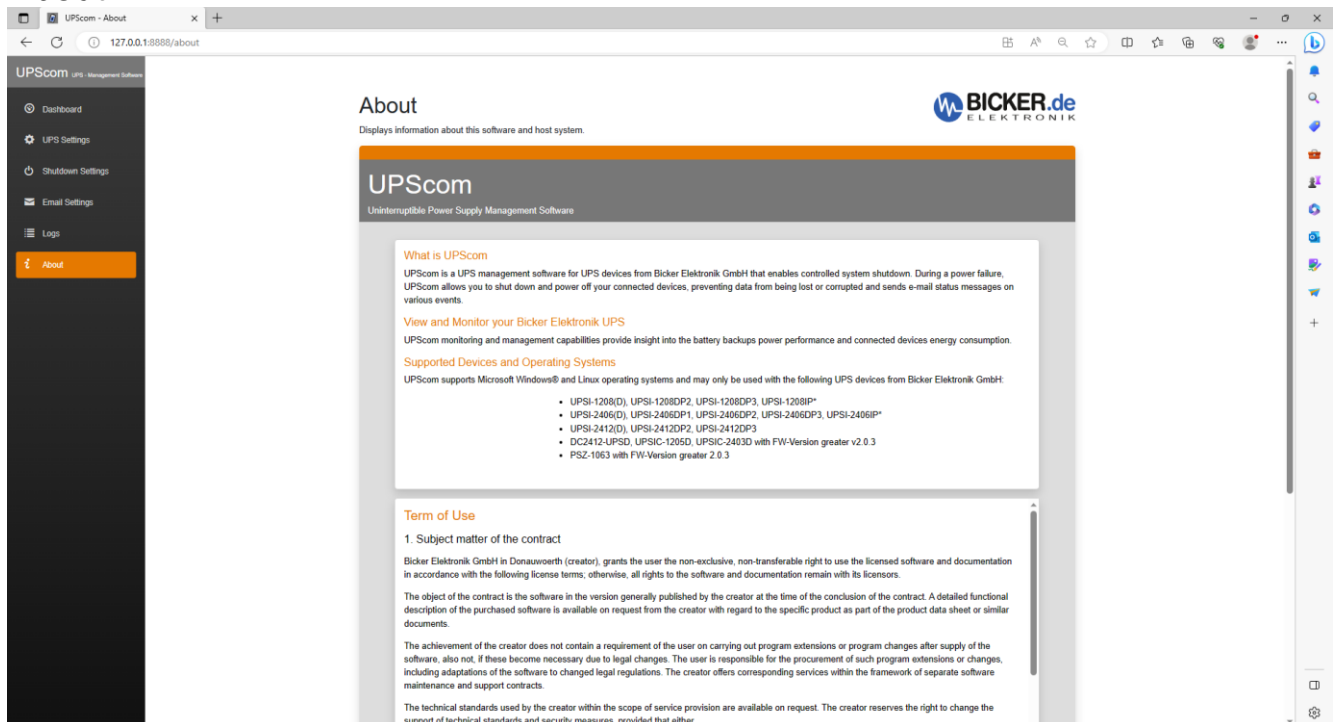
The screenshot shows the 'Log Center' section of the UPScom interface. It features a table of event logs with the following data:

Type	Time	Message
OK	12/07/2023 14:44:34	Input power is OK.
WARNING	12/07/2023 14:44:32	Input power fail!
INFO	12/07/2023 14:22:33	UPScom Server started.

Below the table is a 'Delete Logs' button.

Events will be displayed in the Log Center.

## About



The screenshot shows the 'About' page of the UPScom interface. It contains the following sections:

- About**: Displays information about this software and host system.
- UPScom**: Uninterruptible Power Supply Management Software.
- What is UPScom**: UPScom is a UPS management software for UPS devices from Bicker Elektronik GmbH that enables controlled system shutdown. During a power failure, UPScom allows you to shut down and power off your connected devices, preventing data from being lost or corrupted and sends e-mail status messages on various events.
- View and Monitor your Bicker Elektronik UPS**: UPScom monitoring and management capabilities provide insight into the battery backups power performance and connected devices energy consumption.
- Supported Devices and Operating Systems**: UPScom supports Microsoft Windows® and Linux operating systems and may only be used with the following UPS devices from Bicker Elektronik GmbH:
  - UPSI-1208(D), UPSI-1208DP2, UPSI-1208DP3, UPSI-1208IP\*
  - UPSI-2406(D), UPSI-2406DP1, UPSI-2406DP2, UPSI-2406DP3, UPSI-2406IP\*
  - UPSI-2412(D), UPSI-2412DP2, UPSI-2412DP3
  - DC2412-UPS0, UPSIC-1205D, UPSIC-2403D with FW-Version greater v2.0.3
  - PSZ-1063 with FW-Version greater 2.0.3
- Term of Use**:
  - Subject matter of the contract**: Bicker Elektronik GmbH in Donauwoerth (creator) grants the user the non-exclusive, non-transferable right to use the licensed software and documentation in accordance with the following license terms; otherwise, all rights to the software and documentation remain with its licensors. The object of the contract is the software in the version generally published by the creator at the time of the conclusion of the contract. A detailed functional description of the purchased software is available on request from the creator with regard to the specific product as part of the product data sheet or similar documents. The achievement of the creator does not contain a requirement of the user on carrying out program extensions or program changes after supply of the software, also not, if these become necessary due to legal changes. The user is responsible for the procurement of such program extensions or changes, including adaptations of the software to changed legal regulations. The creator offers corresponding services within the framework of separate software maintenance and support contracts. The technical standards used by the creator within the scope of service provision are available on request. The creator reserves the right to change the support of technical standards and security measures, provided that either

Information about term of use, etc...

## Tips and tricks, knows problems.

### Communication problems

PC systems with ASRock mainboards may have problems with UPS communication via USB or COM port.

If you would like to use COM port under Linux OS, please boot into BIOS to set COM port IRQ Moder to [Linux].

If you would like to use COM port under Win OS, please boot into BIOS to set COM port IRQ Moder to [Windows].

Path: BIOS >Advanced >Super IO configuration >COM Port IRQ Mode → [Linux] or [Windows].

### RS232 connection

A DSUB9 1:1 cable without twist between UPS and PC is required.

### USB to serial adapter

If no RS232 (COM) port is available, a [USB to serial adapter](#) can also be used.

Please take a USB to serial adapter with an [FTDI](#) chip. A converter with a CH340 Chinese chip could potentially cause problems.

### Change IP address and port for Remote Access via WEB browser

Open UPScom.Config.json at UPScom folder with an editor. Write down "IP address and port" behind "TCPPort": and click save.

```
{  
  .."ServerSettings":..  
  ...."TCPPort":.."AllowAllIncomingIp:8888"
```

### UPSGen2

There is an additional simple software called [UPSGen2](#) available only for Windows on USB. When testing UPScom and UPSGen2, ensure that the UPScom service is stopped first when testing UPSGen2 on the same PC.