

# **Emily2 User Manual**

*For*

Microsoft Windows XP

Microsoft Windows Vista

Microsoft Windows 7

Microsoft Windows 8

Microsoft Windows 10

Microsoft Windows Server 2003

Microsoft Windows Server 2008

Microsoft Windows Server 2012

Microsoft Windows Server 2016

Microsoft Windows Server 2019

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# 1. Installation Instructions

## 1.1 System requirements

- Operating OS: Windows XP / Vista / 7 / 8 / 10, Windows Server 2003/2008/2012/2016/2019
- Peripherals: RS-232 or USB

## 1.2 Install Emily2

Step1. Please login as an Administrator.

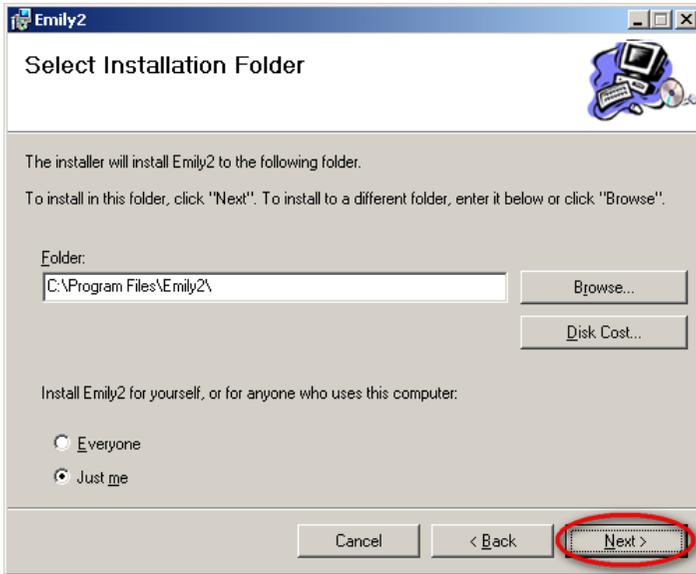
Step2. Double click “Setup.msi” to Install the Emily2.



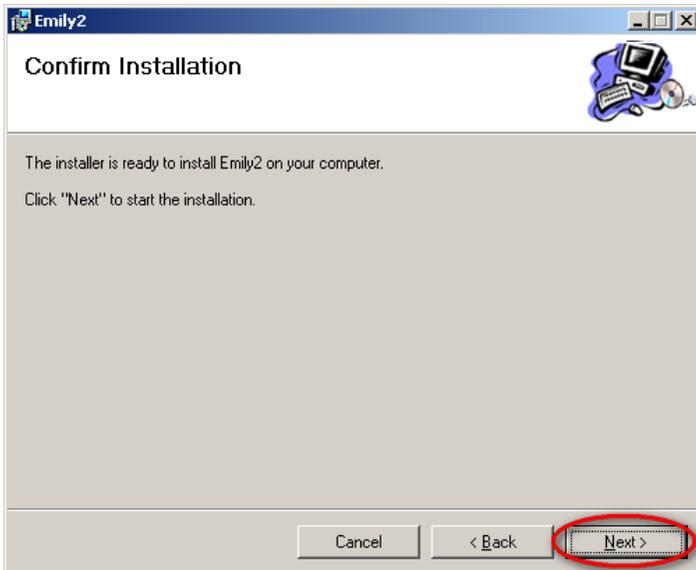
Step3. Click “Next” to the next step.



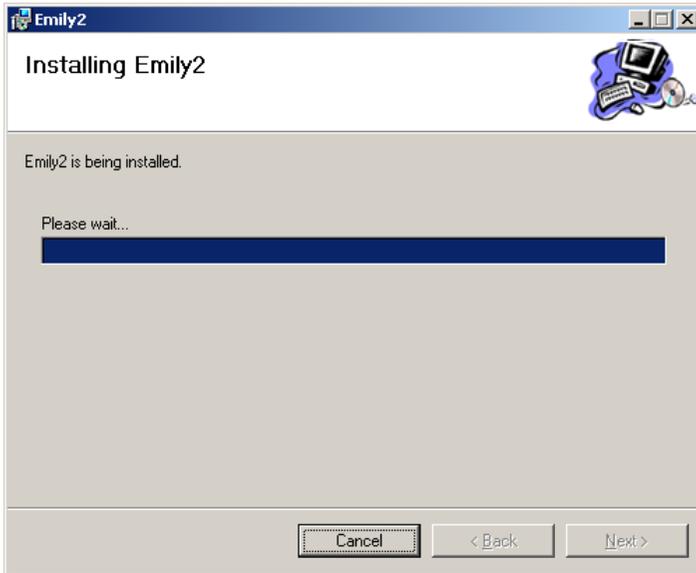
Step4. Click “Browse”, if user wants to change the installing directory.  
Otherwise, click “Next” to next step.



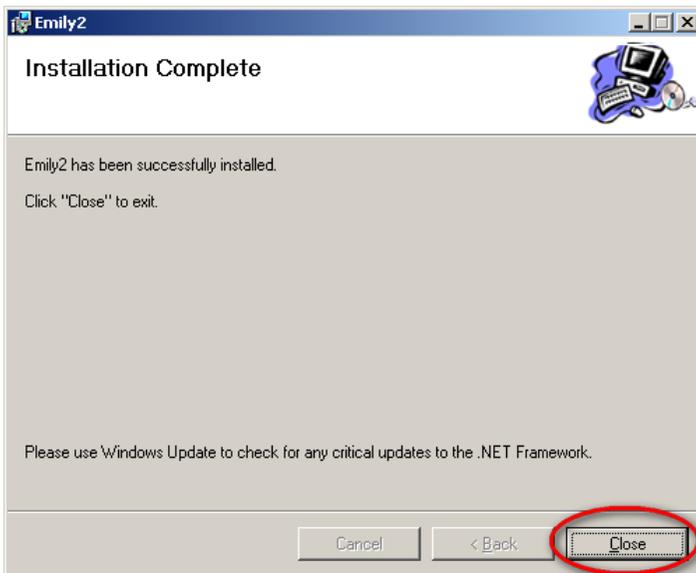
Step5. Click “Next” to next step.



Step6. Installing Emily2 program.



Step7. Click "Close" to finish the installation.

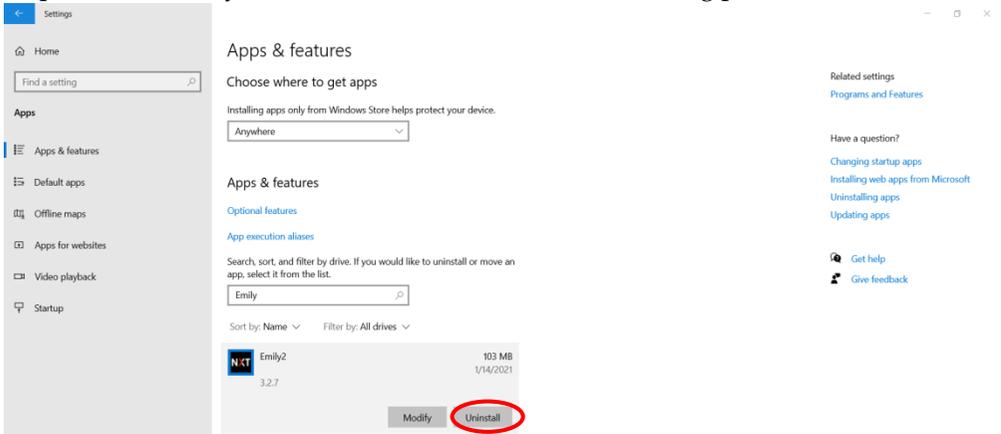


# 1.3 Uninstall Emily2

## Remove Emily2

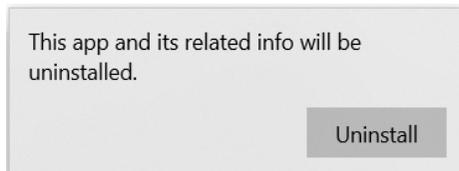
Step1. Go to Settings from your computer and select “Apps & features”.

Step2. Select “Emily2” and click “Uninstall” as the following picture.



Step3. Click “Uninstall” to confirm removing the Emily2.

Step4. Emily2 icon will disappear in the “Apps & feature” page after uninstall process uninstal.



## 2. Function Descriptions

The screenshot shows the Ermy2 software interface. At the top, a menu bar (C) includes 'Control', 'UPS Settings', 'Logging', 'Schedules', 'Oscilloscope', and 'About'. Below the menu is a table (A) with the following data:

UPS Name	Input Voltage	Output Voltage	Input Frequency	Battery Capacity
UPS 1	121.6 (V)	121.6 (V)	59.8 (Hz)	100 (C)

The main control area (A) features a 'Power Flow Meter' section with a diagram showing 'LINE' connected to 'UPS' and 'UPS' connected to 'LOAD'. It displays real-time data: Input Frequency: 59.8 Hz, Input Voltage: 121.6 V, Output Voltage: 121.6 V, UPS Load: 2%, and Battery Capacity: 100%. Temperature is shown as 30.0 °C and 86.0 °F. A right-hand panel (B) provides 'Rating Information' (Rated Voltage: 120 V, Rated Current: 3 A, Battery Voltage: 12 V, Frequency: 60 Hz) and 'UPS Information' (Manufacturer: NKT POWER, UPS Model: TU4000NN, Firmware Version: P2002155).

A. UPS real-time information and status: Detail in section 2.1

B. UPS rating and information display area: Detail in section 2.2

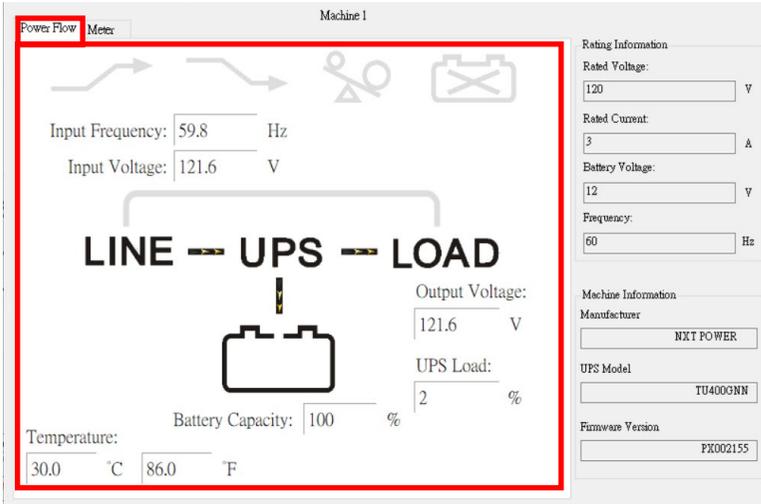
C. Function selection area: Detail in section 2.3

## 2.1 Real-Time Information

Please refer below section for Flow Format Page & Meter Format Page.

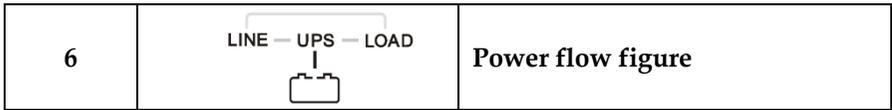
- Input Voltage of UPS
- Output Voltage of UPS
- Input Frequency of UPS
- Load level of UPS
- UPS status
- Power Flow Format Page & Meter Format Page

Power Flow page:

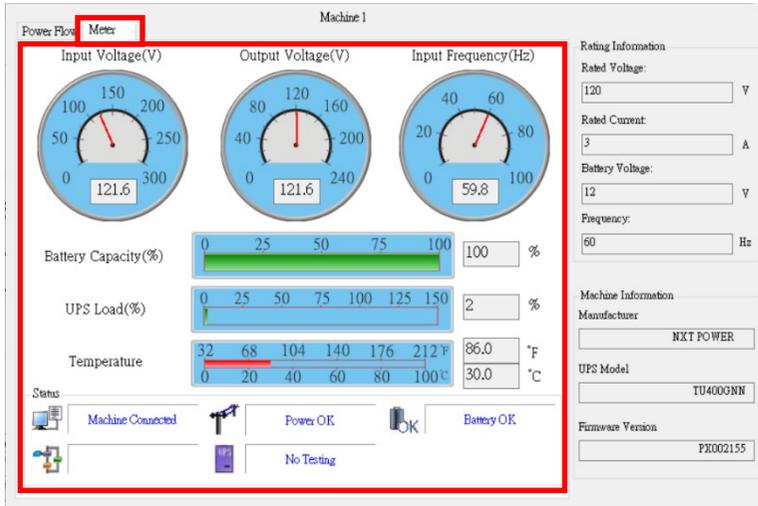


※ Symbols Description

Item	Symbols	Description
1		<b>Boost</b>
2		<b>Buck</b>
3		<b>UPS Overloading</b>
4		<b>Battery Abnormal</b>
5		<b>Battery Normal</b>
		<b>Battery Low</b>

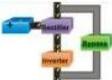


Meter Page:



※ Symbols Description

Item	Symbols	Description
1		UPS is connected successfully to the computer
		The connection between the UPS & the Computer is disrupted
2		Utility Power Normal
		The utility power is absent or abnormal conditions
3		Battery Level Normal
		Battery Low. The UPS battery is near to end of discharge or is

		at low power level (2 Icon swap)
		UPS Battery Abnormal
4		ON Line Model
		OFF Line Model
5		Under self test
6		Bypass mode(2 Icon swap)
		

## 2.2 UPS Rating and Information

### Rating Information

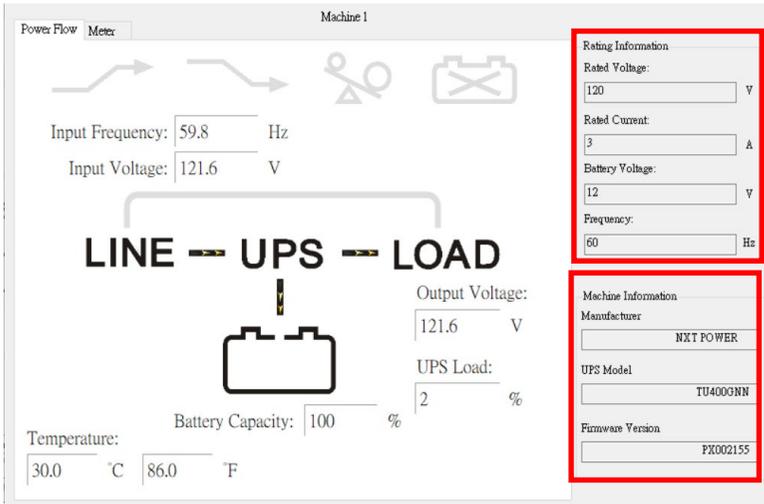
Provides rating of UPS such as:

- Rating Voltage
- Rating Current
- Battery Voltage
- Frequency

### Machine Information

Provides information of UPS such as:

- Manufacturer
- UPS Model
- Firmware Version



## 2.3 Function selection

This chapter will introduce how to use or configure for those specific function "Control", "General Setting", "E-mail", "Data Log", "Event Log", "Scheduling", "Oscillograph" and "About".

### 2.3.1 Control

Command UPS directly for the following test.

- UPS Self-Test
- UPS Self-Test Test to battery low
- Cancel UPS Self-Test



### 2.3.2 General Settings

Allows user to select and set the connecting RS-232/USB or Remote, set to Data Log function and set to turn of UPS or OS condition etc.

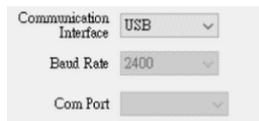
#### 2.3.2.1 Choose the Protocol.

Standard: for RS-232 or USB



Please refer to 2.3.2.5 for detail if choose the Remote.

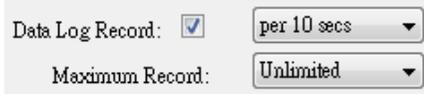
#### 2.3.2.2 Setting Communication Interface



- Communication Interface : USB / RS232
- Baud Rate : 2400bps/4800bps/9600bps
- Con Port :COM1~COMX

### 2.3.2.3 Log Record setting

- Enable the Data Log Record function



The screenshot shows two settings: 'Data Log Record' with a checked checkbox and a dropdown menu set to 'per 10 secs', and 'Maximum Record' with a dropdown menu set to 'Unlimited'.

- Set Record timer interval
- Set data storage count of record list

### 2.3.2.4 Data retention setting

The time of data stored in a database can set by the user. If the value is "0", it means database will never be deleted.



The screenshot shows a text input field labeled 'Days of data retention' with the value '0' and a button labeled '(0:Never Delete)'.

### 2.3.2.5 Remote Setting

The "Connect Remote Machine" is for connecting the Emily2, which installed on another computer, and the IP address should be the master PC, which connected UPS.



The screenshot shows a 'Remote Setting' dialog with two radio buttons: 'Connect Local Machine' (unselected) and 'Connect Remote Machine' (selected). Below the radio buttons is an 'IP:' label and a text input field containing '192.168.7.150'.

Note:

With "Connect Remote Machine" you cannot send commands like Scheduling or UPS turn off.

### 2.3.2.6 Unfinished APP log

If auto saving function is set, the Emily2 will display the closed record after restart.

Display Closed Files Record on Emily2 Restart

Unfinished Log

### 2.3.2.7 Optional command

Set the file to be executed before the system shutdown. The selectable time is from 0 min. to 2880 min.



The screenshot shows a 'Browse' button, a text input field, and a spinner box set to '1' with the label 'Minute'. Below the input field is the text 'OS Shutdown Delay After The Warning Time (Range: 0-2880)'.

**2.3.2.8** When Power Failure, OS Shutdown Warning Time

Set the Warning Time for system shutdown operation after Power Failure. The selectable time is from 0 min. to 2880 min.

When Power Failure, OS Shutdown Warning Time (Range:0-2880)  Minute

**2.3.2.9** When Battery Low, OS Shutdown Warning Time

Set the Warning Time for system shutdown operation after Battery Low. The selectable time is from 0 min. to 2880 min.

When Battery Low, OS Shutdown Warning Time (Range:0-2880)  Minute

**2.3.2.10** When Battery Capacity less than or equal the setting level, OS Shutdown Warning Time

Set the Warning Time for system shutdown operation after Battery Low. The selectable time is from 0 min. to 2880 min. The selectable time is from 0 min. to 2880min. The selectable battery Capacity is form 0% to 90%.

When Battery Capacity is less or equal (0-90)  %

OS Shutdown Warning Time (Range:0-2880)  Minute

**2.3.2.11** Turn off UPS, UPS Output Shutdown Delay After warning Time time

Set time interval from Windows shutdown to UPS turn-off. The selectable time is from 0.2 min. to 99min.

Turn Off UPS  
UPS Output Shutdown Delay After The Warning Time (Range: 0-99):  Minute

### 2.3.3 E-Mail Configuration

Configure to send the event message (e.g. AC Power Fail) to specific one by E-mail. The following section is for the detail configuration approach.

**A**

**B**

User Name: XXX

User Email Address: XXX@XXX.com

SMTP Server: XXX.com

Receiver Name: XXX

Subject: TEST Email

SMTP Server Port:

Mail To: XXXX@XXXX.com

Send Setting

<input type="checkbox"/> Communication Established	Mail message UFS connect
<input type="checkbox"/> Communication Lost	Mail message UFS disconnect
<input type="checkbox"/> OS Shutdown Started	Mail message System shutdown
<input type="checkbox"/> Power Failed	Mail message Power failure
<input type="checkbox"/> Low Battery	Mail message Battery low
<input type="checkbox"/> Power Restored	Mail message Power restored
<input type="checkbox"/> UFS Shutdown Started	Mail message UFS shutdown
<input type="checkbox"/> Over Load	Mail message Over load
<input type="checkbox"/> Battery Error	Mail message Battery weak
<input type="checkbox"/> UPS Self Testing	Mail message UFS test

**D**

OK Cancel

#### A. Email Test:

Click to send a test message to confirm the settings are correct.

#### B. Account Settings:

- User Name: Sender
- User Email Address: select a sender E-Mail
- Password: Password of your email server
- SMTP Server: SMTP server or IP address
- SMTP Server port: SMTP Server port
- Receiver Name: name of receiver
- Mail To: Mail address of receiver
- Subject: Subject of E-Mail

**Note:** If you want to send an email to more than 1 email address, you must use “;” to separate email addresses.

C. Send Setting:

You can use the default message or set or modify your own in English.

D. Save Setting:

Click "OK" to save and apply settings.

Note: Internet Firewall may not allow this E-Mailing function.

## 2.3.4 Data Log

The data log can be read directly via Emily2 or export to an file with xls or txt format for application. The following section is for the detail operation.

Time	Input Voltage	Output Voltage	UPS Load	Input Frequency	Battery Capacity	Temperature
2021/05/27 10:57:13	121.6	121.6	2	59.8	100	30
2021/05/27 10:57:02	121.6	121.6	2	59.8	100	30
2021/05/27 10:56:51	121.6	121.6	2	59.8	100	30
2021/05/27 10:56:40	121.6	121.6	2	59.8	100	30
2021/05/27 10:56:29	121.6	121.6	2	59.8	100	30
2021/05/27 10:56:18	121.6	121.6	2	59.8	100	30
2021/05/27 10:56:07	121.6	121.6	2	59.8	100	30
2021/05/27 10:55:56	121.6	121.6	2	59.8	100	30
2021/05/27 10:55:45	121.6	121.6	2	59.8	100	30
2021/05/27 10:55:34	121.6	121.6	2	59.8	100	30
2021/05/27 10:55:23	121.6	121.6	2	59.8	100	30
2021/05/27 10:55:12	121.6	121.6	2	59.8	100	30
2021/05/27 10:55:01	121.6	121.6	2	59.8	100	30
2021/05/27 10:54:50	121.6	121.6	2	59.8	100	30
2021/05/27 10:54:39	121.6	121.6	2	59.8	100	30

A area:

Choose the “Date”, and click “Update” for data refreshing.

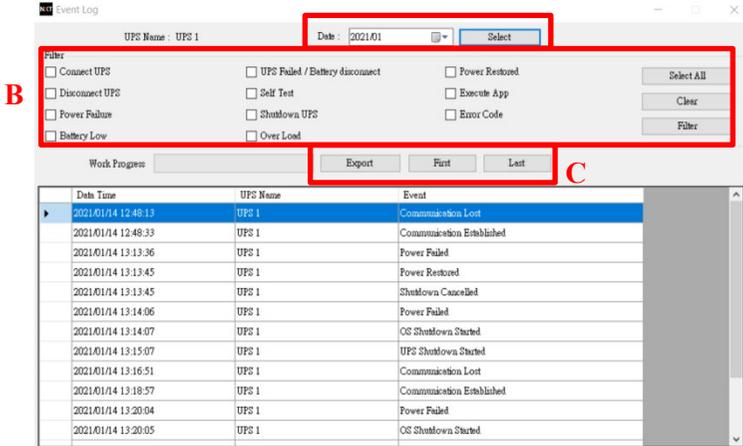
UPS Name: UPS 1      Date: 2021/05/18      Update

B area:

- Export: Click to export the current data into “xls” or “txt” format.
- First: Click to go to the first recorded entry.
- Last: Click to go to the last recorded entry.

### 2.3.5 Event log

The event log can be read directly via Emily2 or export to an file with xls or txt format for application. The following section is for the detail operation.



A area:

Choose the “Date”, and click “Select” for data refreshing.



B area:

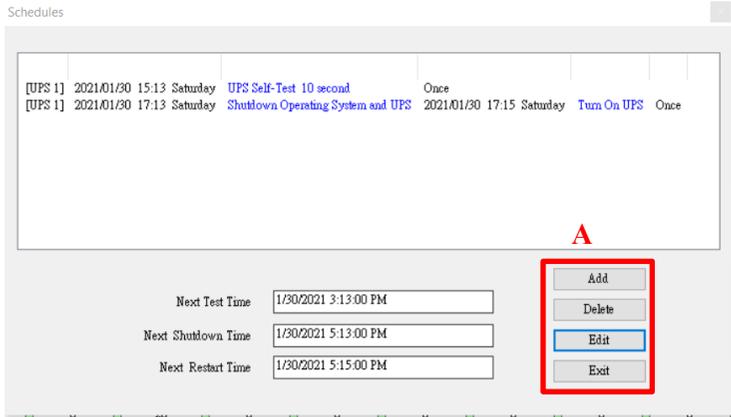
Event log filter for read or export

C area:

- Export: Click to export the current data into “xls” or “txt” format.
- First: Click to go to the first recorded entry.
- Last: Click to go to the last recorded entry.

### 2.3.6 Schedules

Emily2 supports the scheduling self test, turn-on and turn-off function for UPS. The following section is for the detail configuration approach.



A area:

- Add: Create a new task. Please refer to section 2.3.6.1 for detail
- Delete: Delete a task
- Edit: Edit a task Please refer to section 2.3.6.2 for detail
- Exit: Exit the Schedules

### 2.3.6.1 Add Schedules

#### A.Executive Time :

- Date: Date Setting.
- Time: Time Setting.
- Frequency: Set execute cycle of the schedule.

#### B.Control:

- Self-test for 10 seconds.
- Self-test for (1-99) minutes.
- Self-test until Battery condition xx%
- Self-test until Low Battery condition.
- Shutdown Operating System and UPS or Turn on UPS

#### C.Function: Add or Cancel schedule

Task

UPS Name : UPS 1

**A**

Date : 2021/01/14 Thursday

Time : 15:15

Frequency  Once  Daily  Weekly  Monthly

Control

UPS Self-Test 10 second

UPS Self-Test (1 - 99) 1 Minute

UPS Self-Test until Battery condition 20 %

UPS Self-Test until Low Battery condition

Shutdown Operating System and UPS

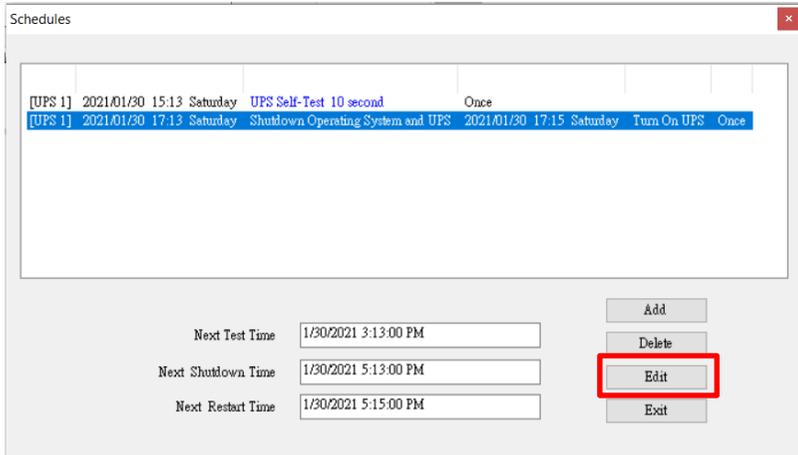
Turn On UPS

**B**

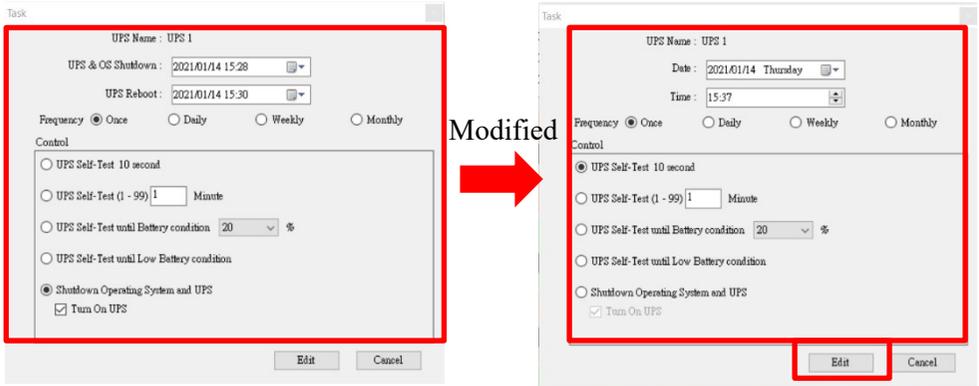
**C** Add Cancel

### 2.3.6.2 Edit Schedules

Frist, Select the schedule you want to modify. And click "Edit" to modify task.



Click "Edit" to modify and save this task.



## 2.3.7 Oscillograph

It is visual data curve for easy check.



## 2.3.8 About

It displays copyright and version information of Emily2.



## 2.4 Pop-up message

When event occurred (e.g. power fail battery low ... etc.), Emily2 will pop up a message to remind the user to handle it.

