



Automatic Shutdown Software for  
OMRON Uninterruptible Power Supply (UPS)

PowerAttendant Lite for Windows

Users Manual

## Precautions for Correct Use

### Intended uses

The software is designed and manufactured with the purpose of being used on computers in use within the average office or family environment. Never use it in applications where extremely high reliability or safety is required, such as:

1. Applications such as medical equipment that are directly related to the safety of human life.
2. Use that could cause injuries  
Example: Use directly related to the service, operation, or control of aircraft, ships, trains, or elevators.
3. Use for mission-critical computer systems, trunk line communication systems, or public transportation systems.
4. Use for any devices applicable to any of the above.

### Software License Agreement

By installing or using the software on a computer, the content of the following software license agreement (hereinafter, this agreement) is deemed to be agreed to and in force. If you do not agree to abide by this agreement, do not install the software.

This agreement is what OMRON Corporation ("OMRON") determines as the terms and conditions under which the software products ("the software") are licensed to our customers.

Be sure to read the following matters with care before using the software.

OMRON Corporation (hereinafter, OMRON) has specified the license agreement conditions under which the customer may use the software product (hereinafter, software).

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If the customer violates those rights, the customer shall bear the responsibility to OMRON and the third parties that have a license to OMRON described above.

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3. The customer can copy the software only for the purpose of backing up the software.

The customer may not change the software, or perform reverse compiling, disassembly, reverse engineering or other similar processes.

4. The customer shall keep the content of the software confidential and shall not disclose it to third parties during the agreement period and after its termination.

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6. If the customer discovers that the software is defective and returns it within 90 days after purchasing the product, OMRON will replace it free of charge.

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## Refusal

1. Any diversion of all or part of the contents of the software and this manual without permission is strictly prohibited.
2. The contents of the software and the document may change in the future, without notice.
3. We have made every effort to make the contents of the software and the document complete, however, if you notice an error or other points by any chance, please let us know.
4. Some windows and other graphic items in this document may differ from the actual ones.

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## How to Use this Manual



### What's in this Manual

This manual consists of the followings.

Overviews of the software	<p>“Chapter 1 Overviews”</p> <p>Describes the main function, operation procedures, system configuration example, how to it works and operating environment of the software.</p>
Connection and installation method of equipment	<p>“Chapter 2 Connection and installation”</p> <p>Describes the connection method of UPS and computer and installation method of the software.</p>
The usage and setting procedure of the software	<p>In “Chapter 3 The simple usage and operation test”, after basic usage and connection, test if the shutting down operation is run normally.</p> <p>In “Chapter 4 Setting procedure of PAL”, all settings are explained.</p>
Various settings examples	<p>“Chapter 5 Setting examples”</p> <p>Practical setting examples are explained.</p>
Various materials and Q&A	<p>“Chapter 6 Appendix”</p> <p>Technical materials and Q&amp;A for trouble are published.</p>

### Using notations in the manual

The signs, terminology, and quotation marks below are used in the manual.

Notations	Meaning
	Indicates a point the user is requested to observe or an item requiring attention during operation is described. Carefully read the description and be sure to do as instructed.
	Indicates that useful information or information giving some hint is described. Also indicates that pages where related information is described or other manuals etc are described.
The software	It means “Power Attendant Lite” (PAL) of OMRON.
[ ]	Among the items displayed on window, the items to be operated (buttons to be clicked, etc.) are written. Example: [Next >] button.
" "	Among the items displayed on screen, the window name and setting value are written. Example: “Shutdown Parameter” tab

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# Chapter 1

## Overviews

In this chapter, describes the features, the operation procedures and the system configuration of the software.

## 1-1 Features

Shutdown software Power Attendant Lite for UPS (hereafter called as the software) always monitors the status of an Uninterruptible Power Supply (hereafter called as "UPS") connected to a computer and when an input power supply abnormality (power failure, etc.) occurs, shuts down a computer normally to protect from breakages of OS and hard discs.

The software has following features.

### 1-1-1 Main Functions

#### ■ Normal Shutdown of a Computer

When an input power supply abnormality (power failure, etc.) occurs, automatically saves the files currently created and edited, ends the application software or the OS and stop the power supply of UPS. Datas and softwares are protected safely in occurrence of abnormality too.

#### ■ Monitoring UPS Status

The status of UPS connected a computer is monitored and various operations are executed according to a state.

In addition, it is possible to record the UPS status to logs.

#### ■ Tests and Schedule Control of UPS

Operation and control functions such as schedule operations and shutdown immediately, and self diagnosis functions are loaded.

#### ■ Control of Computers on Network

Using the script command function, it is possible to shut down other computers on network when power supply abnormality occurs.

## 1-2 Operation

Start the operation of the software using the following procedure. See the corresponding page about operation procedures.

### 1-2-1 Operation Procedures

UPS Setting	Set a UPS correctly by referring a manual of each UPS.
Connection of UPS and a computer	Connect the UPS and a computer with USB or RS-232C.
Install	Install the software in the computer.
Start	Start the software and login the agent.
Setting	Set the software.
Operation Check	Test if the shutdown operation is executed normally.
Start operation	Start normal operation.

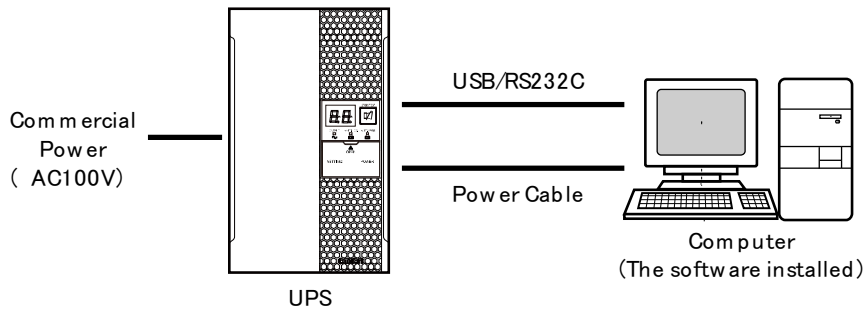
## 1-3 System Configuration Examples

Describes the system configuration that controls a UPS and computer using the software.

There are configurations by connecting a computer and UPS with one-to-one and a configuration by connecting plural computers through network.

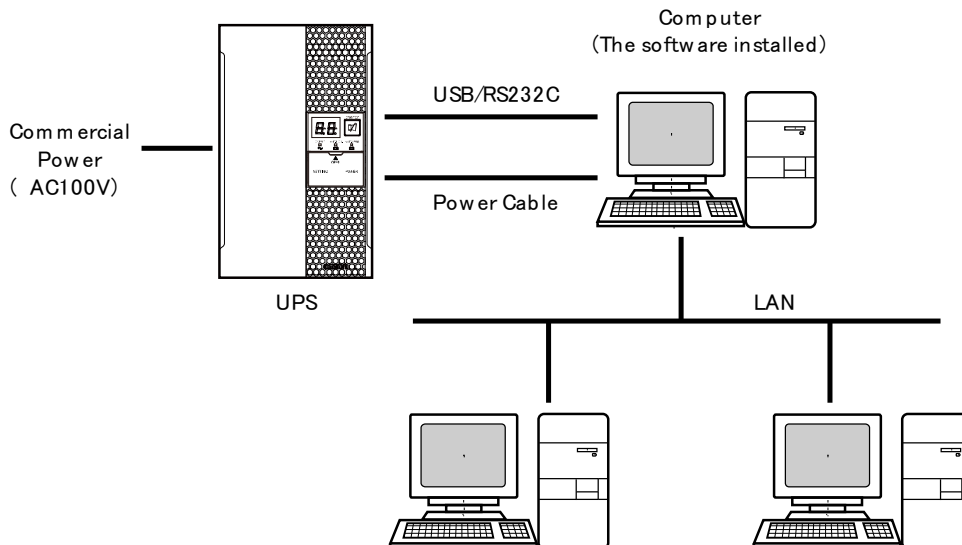
### 1-3-1 Connecting One Computer to UPS

When power supply abnormality and events such as planned shutdown occur, the computer connected with USB or RS-232C is shut down.



### 1-3-2 Connecting Plural Computers Through Network

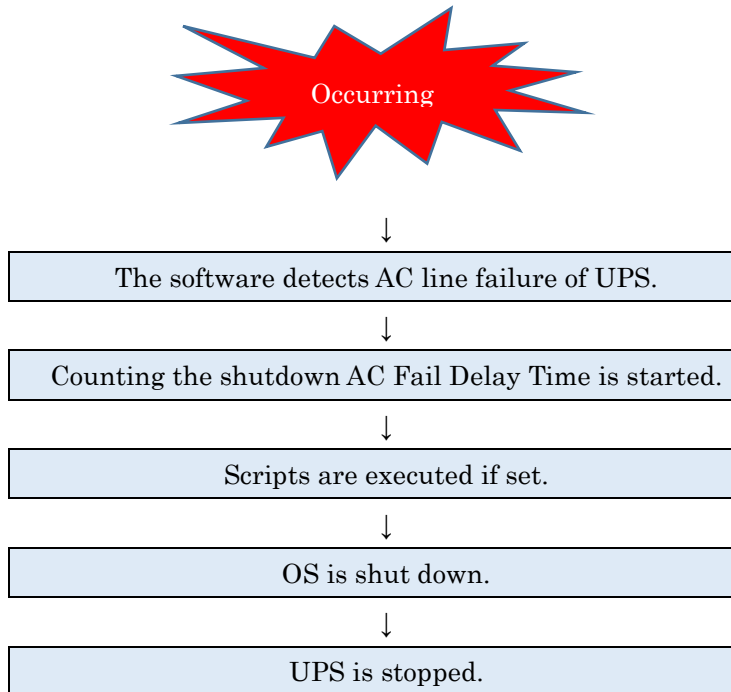
Shutdown is controlled by sending script commands from the computer connected to UPS to computers on network.



## 1-4 Operation Flow

Describes shutdown operations when power supply abnormality occurs.

### 1-4-1 Operation Flow



## 1-5 Configuration of the Software

The software is configured with an Agent, system tray icon and setting window.

### 1-5-1 Configuration of the Software

- Agent

The status of the UPS is always monitored by residing on the computer.

- System tray icon

The status of the UPS is displayed with icons by residing on a system tray of Windows.

- Setting window

Status check of the UPS and computers and all settings of the software are conducted.

## 1-6 Shutdown Operations

When abnormality such as AC line failure and communication error of UPS is detected or the time set by schedule is reached, the computer is shut down automatically depending on the setting.

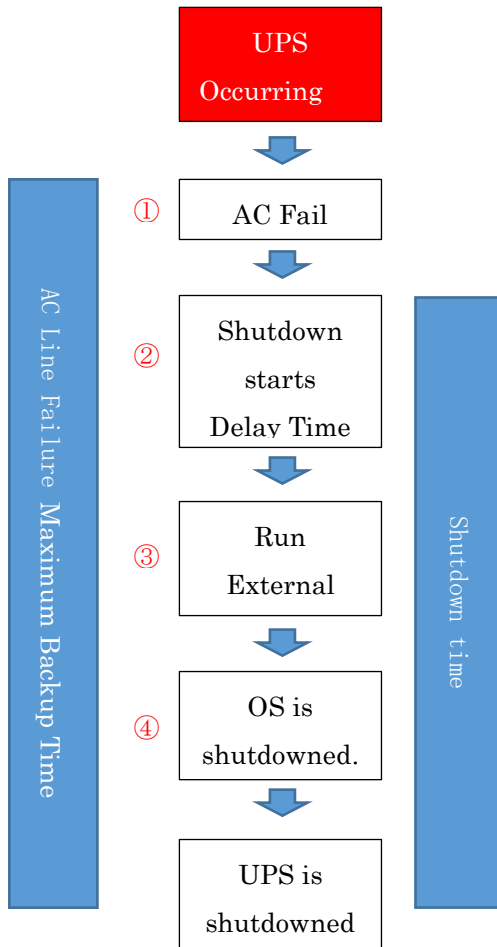
### 1-6-1 Types of Shutdown

The software has the following shutdown operations. These are applied according to the setting in the setting window.

Types of Shutdown	Description
Emergency Shutdown	If Battery Level of UPS becomes low from when power is not supplied to UPS, all other operations are canceled and shutdown is started.
AC Fail Delay Time Cancel Shutdown	If Battery Level of UPS becomes low during AC Fail Delay Time from when power is not supplied to UPS, AC Fail Delay Time is canceled and shutdown is started.
AC line Failure Shutdown	Shutdown for when power is not supplied to UPS because power failure occurs
Schedule Shutdown	Shutdown by preset schedule
Shutdown at the time of abnormality occurrence	Shutdown for when abnormality occurs.
Shutdown at the time of warning occurrence	Shutdown for when warning occurs.
Shutdown Immediately	Shutdown by user operation
Communication Error Shutdown	Shutdown for when error of communication with UPS occurs.

## 1-6-2 Shutdown Flow

Shutdown is executed by the following flow.



	Item	Description
①	AC Fail Delay Time	The time until starting to process after detecting AC line failure <b>Caution</b> If AC Fail Delay Time is set longer, electric power of UPS is run out and it stops before OS shuts down.
②	Shutdown Start Delay Time	The time until starting to run External Command after AC Fail Delay Time
③	Run External Command Executed Time	The enough time until completing Run External Command Executed
④	OS shutdown	OS shutdown specified by Shutdown Mode is processed.

## 1-7 Operating Environment

The operating environment of the software is the followings.

### 1-7-1 Compatible OS

Compatible OS name
Windows10
Windows8.1/8
Windows7
Windows Server 2016 Windows Storage Server 2016
Windows Server 2012R2 Windows Storage Server 2012R2
Windows Server 2012 Windows Storage Server 2012
Windows Server 2008R2 Windows Storage Server 2008R2
Windows Server 2008 Windows Storage Server 2008



## 1-7-2 Compatible UPS

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Series name	Type
BZ	BZ35LT2, BZ50LT2
BX	BX35F, BX50F
BX-W	BX50FW, BX75SW
BY-S	BY35S, BY50S, BY80S, BY120S
BY-W	BY50FW, BX75SW
BN-T	BN50T, BN75T, BN100T, BN150T, BN220T, BN300T
BN-R	BN75R, BN150R, BN300R
BN-XR	BN150XR
BA-T	BA75T, BA100T
BA-R	BA100R
BU-RS	BU100RS
BU-SW	BU50SW, BU75SW, BU100SW, BU150SW
BU-RW	BU75RW, BU100RW, BU200RW, BU300RW
BU-RE	BU60RE, BU100RE
BU-2SW	BU1002SW, BU3002SW
BU-2SWG	BU1002SWG, BU3002SWG
BU-2RW	BU1002RW
BU-2RWL	BU2002RWL, BU3002RWL, BU5002RWL
BU-2RWLG	BU2002RWLG, BU3002RWLG, BU5002RWLG
BU-R	BU150R
S8BA	S8BA-24D24D120LF, S8BA-24D24D240LF S8BA-24D24D360LF, S8BA-24D24D480LF

## 1-7-3 Communication Interface

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Interface
USB
RS-232C

# Chapter 2

## Connection and Installation

This chapter describes the connection of UPS and computer and installation method of the software.

## 2-1 Connecting with UPS

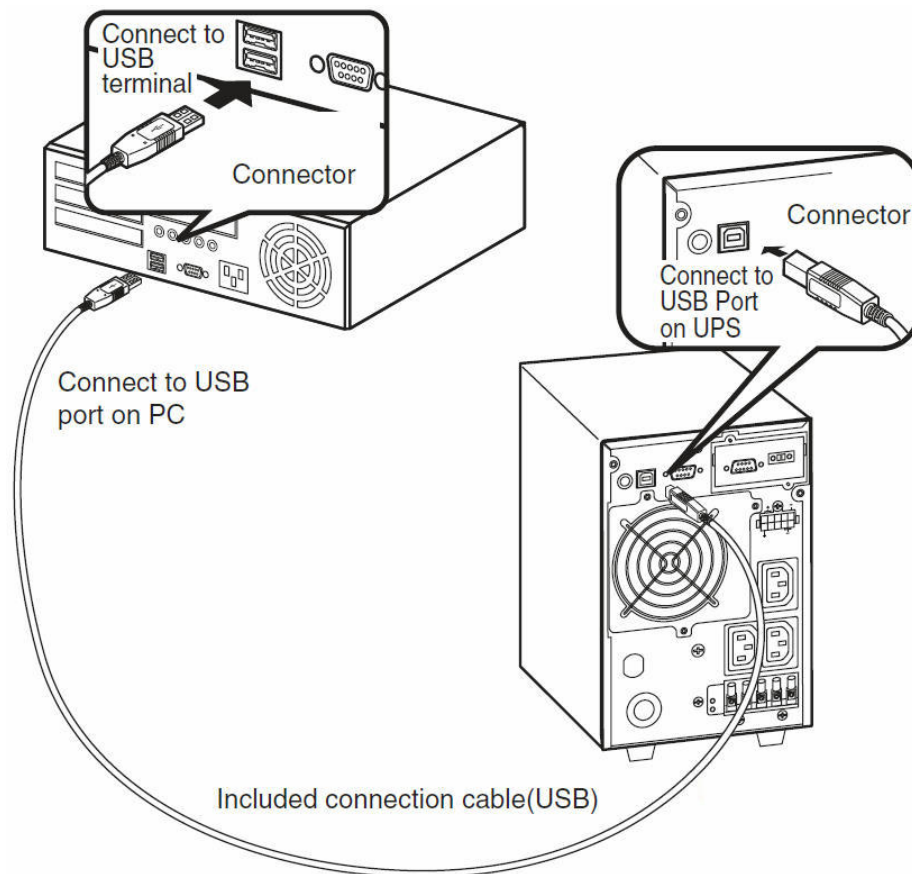
Connect the computer and UPS. Connect by a USB cable or RS-232C cable.

### 2-1-1 Connection via USB

Connect the computer and UPS by a USB cable.

- ① Turn off the computer and the UPS.  
Turn off the computer and then the UPS.
- ② Connect the computer and UPS by an accessory USB cable.

Connection Diagram (Example: BU1002SW)



- ③ Turn on the UPS and then the computer.

## 2-1-2 Connecting RS-232C

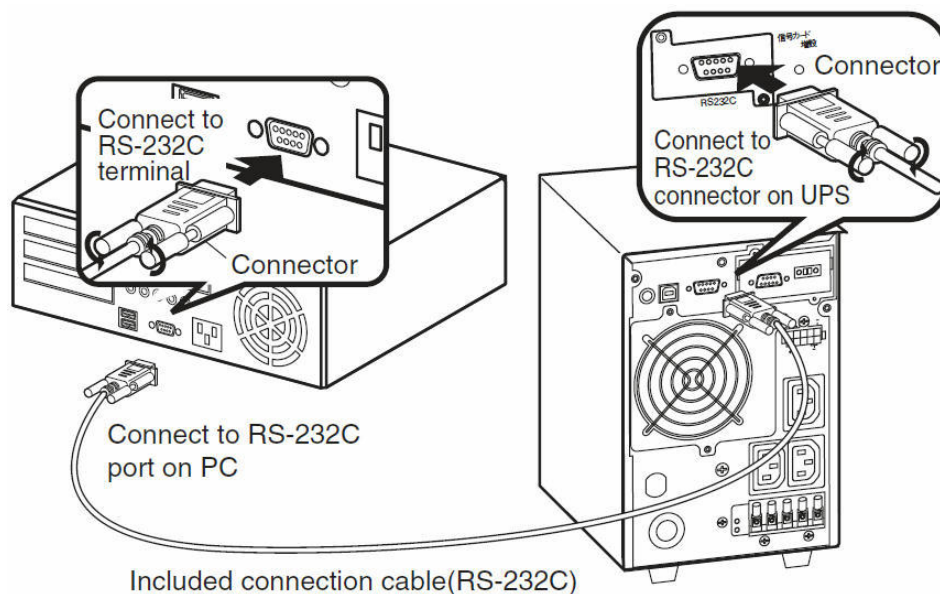
Connect the computer and UPS by a RS-232C cable.

### CAUTION

Use a RS-232C cable of UPS accessories. In addition, do NOT connect communication equipment and UPS of other companies with the accessory cable.

- ① Turn off the computer and UPS.  
Turn off the computer and then the UPS.
- ② Connect the computer and UPS by an accessory RS-232C cable.

Connection Diagram (Example: BU1002SW)



- ③ Tighten fixing screws and fix the connector.
- ④ Turn on the UPS and then the computer.

### Hint

If communication is not available after connecting to a serial port, there is a possibility that the connected port is set to “Disable”. Check the BIOS setting of the computer and change the setting to “Enable” and then, check the connection with UPS again. For checking the BIOS setting and changing method of the setting, see the instruction manual for each computer or contact the maker of the computer.

## 2-2 Installation Procedures

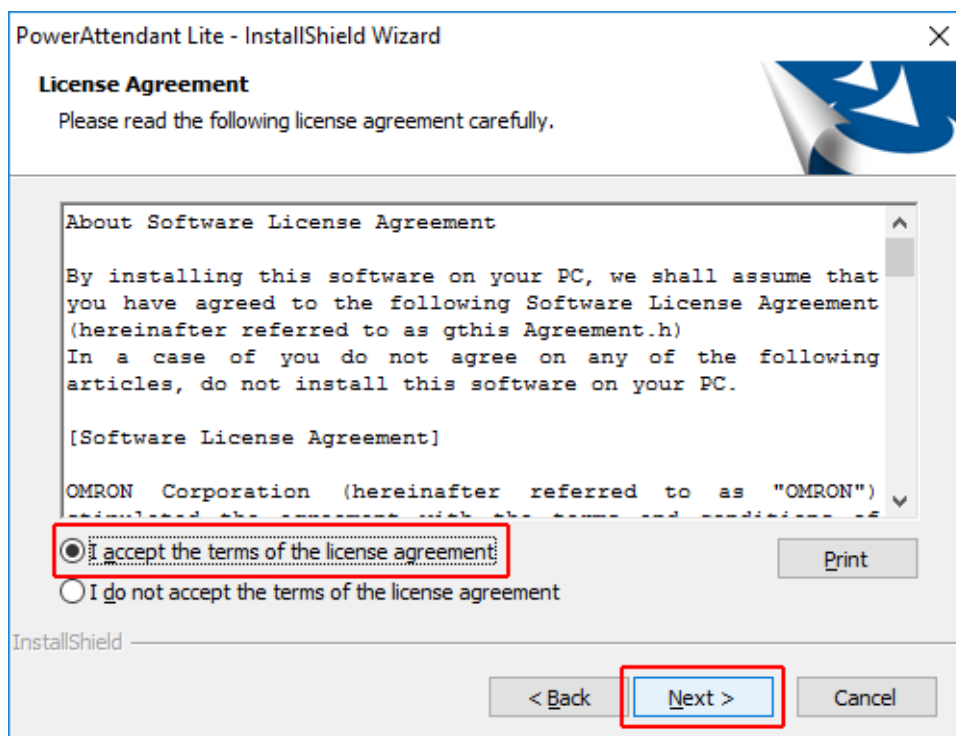
Describes installation procedure of the software.

### 2-2-1 Before Installation

- The software can be used only on Omron's UPS and OEM-supplied Omron UPS.
- Check that a username with administrator authority can log in to the computer.
- Check that the OS can shutdown normally in your usage environment.
- When using other automatic shutdown software, make sure to uninstall that software first, and restart the OS. For details on how to uninstall each software application, see its instruction manual.
- Connect your computer to the UPS before installing the software.

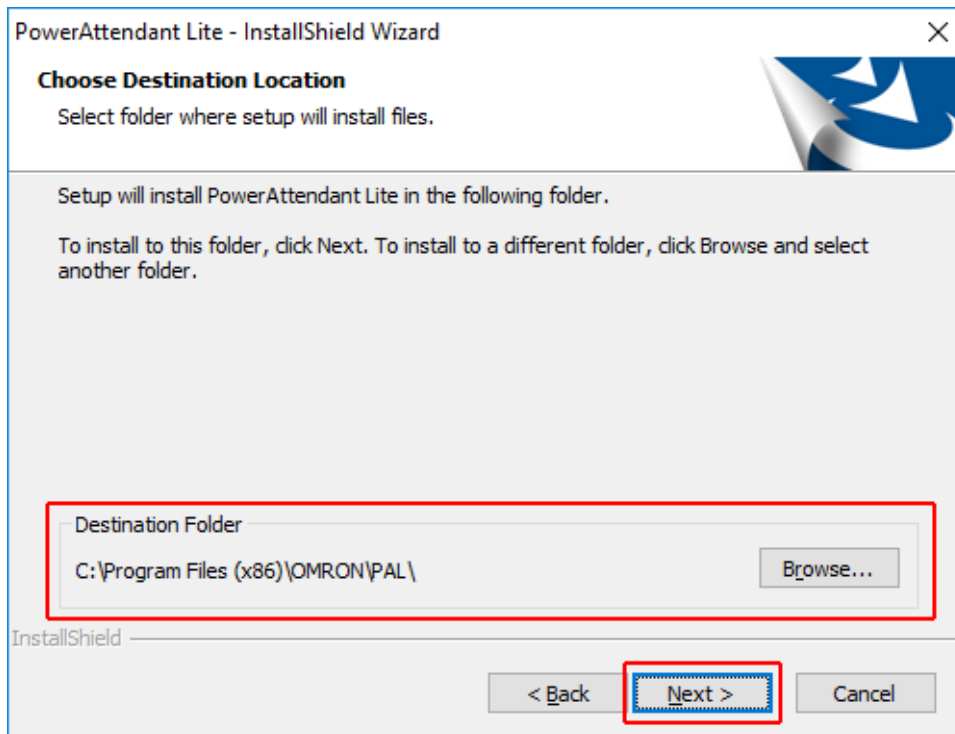
### 2-2-2 Installation

- ① Unzip the software downloaded from our homepage at any folder and double-click "Setup.exe" in the unzipped folder to start installing.
- ② In License Agreement window, select the radio button for "I accept the terms of the license agreement", and click the [Next >] button.

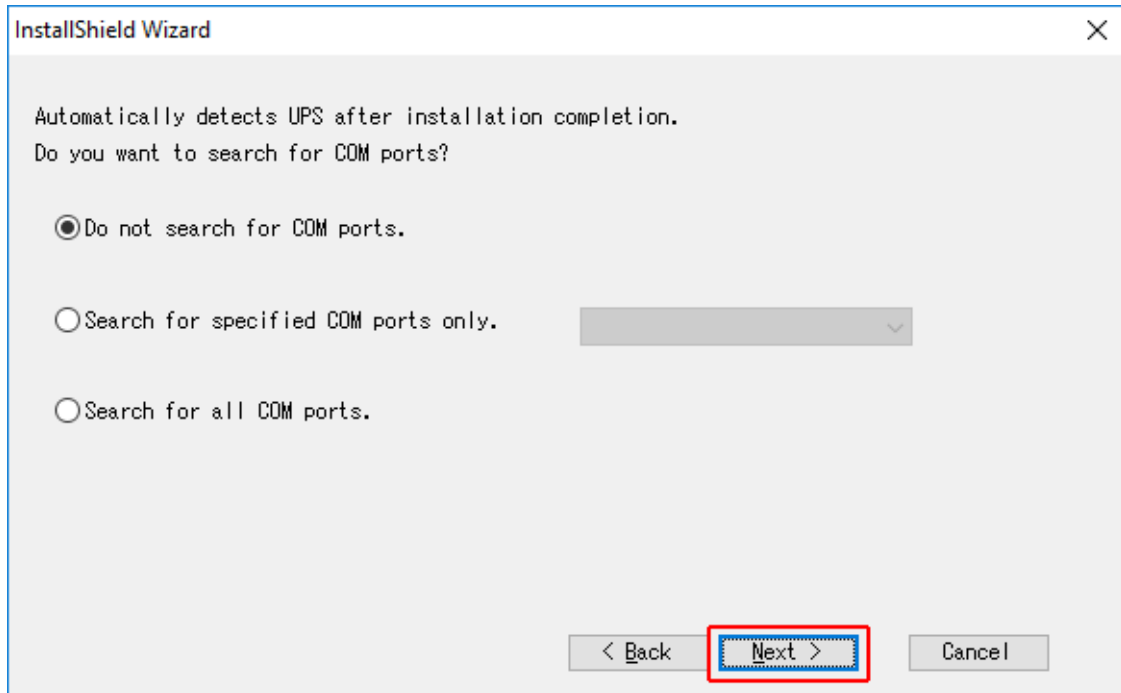


- ③ Click the [Next >] button.

To change the installation folder, click the [Browse...] button, specify the folder.



- ④ Select a detection method of the connected UPS, and click the [Next >] button.

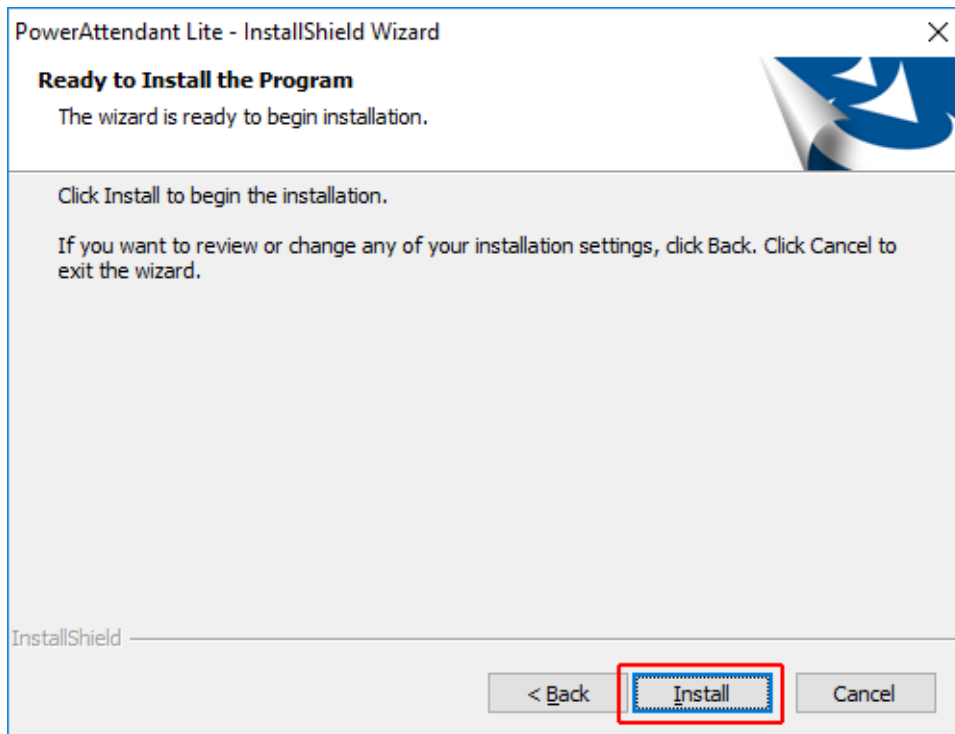


### Hint

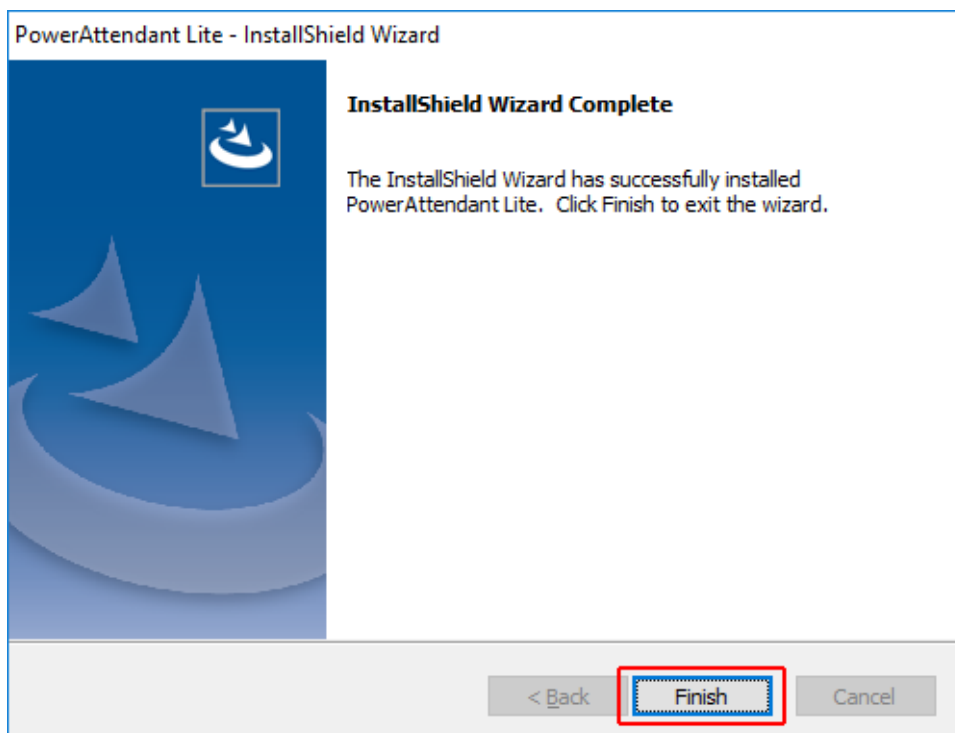
You can change a detection method of the connected UPS in “Communication Setting” of Other Menus”.

- ⑤ Select the [Install] button.

Installation is started.



- ⑥ After finishing installation, click the [Finish] button.



Installation of the software is finished. And then, test if the shutdown operation is run normally while referring “Chapter 3 The simple usage and operation test”.

When you set the detail of the software, see the “Chapter 4 Setting Procedure of PAL”.

## Chapter 3

# The Simple Usage and Operation Test

After finishing connecting and installing, start the software and test if the shutdown operation is run normally.







## 3-1 Status Indication of Task Tray Icon


### 3-1-1 Task Tray Icon

By installing the software, an agent resides to the computer and monitors the UPS and power status. You can see the status in the task tray icon of Windows.



### 3-1-2 Display Contents of Task Tray Icon

Icon Display	Display Contents	Description
	Commercial Operation and Normal	The agent is starting and the UPS is operating normally.
	Agent Stop	The agent is stopping.
	Backing Up	The UPS is operating in a backup state.
	Communication Error	<p>Communication error is occurring.</p> <p>Check the following status.</p> <ul style="list-style-type: none"> <li>• The status of the serial port or USB port of the computer</li> <li>• Connection of the communication cable</li> <li>• Do NOT the software and other software use the same serial post?</li> </ul>

Icon Display	Display Contents	Description
	Hardware Abnormality	<p>A hardware abnormality occurred in the UPS.</p> <p>There may be the following situations.</p> <ul style="list-style-type: none"> <li>Input Error</li> <li>Battery Low</li> <li>Bypass Detection</li> <li>Battery Weak Detection</li> <li>Battery Disconnected</li> <li>Overload</li> <li>Boosting Operation (Input Voltage Lowering)</li> <li>Dropping Operation (Input Voltage Increasing)</li> <li>Output Over Voltage</li> <li>DC BUS Voltage Abnormal</li> <li>Overload Timeout/Output Short</li> <li>Battery Over Charge</li> <li>Battery Over Discharge</li> <li>High Temperature Abnormality</li> <li>FAN Fail</li> <li>TX Fail</li> <li>Output Low Voltage</li> <li>Battery Life Detection (Life Counter Over Flow)</li> </ul>

## 3-2 Start Monitor Window and Login to Agent

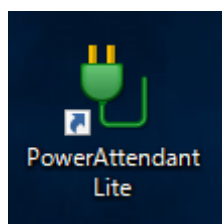
Setting of the software is conducted on the monitor window. Start the monitor window by the following procedures to login the agent.

### 3-2-1 Procedures to Start and Login

- ① Select the “Start button” → “All Program” → “OMRON” → “Power Attendant Lite” → “Power Attendant Lite”.

#### Hint

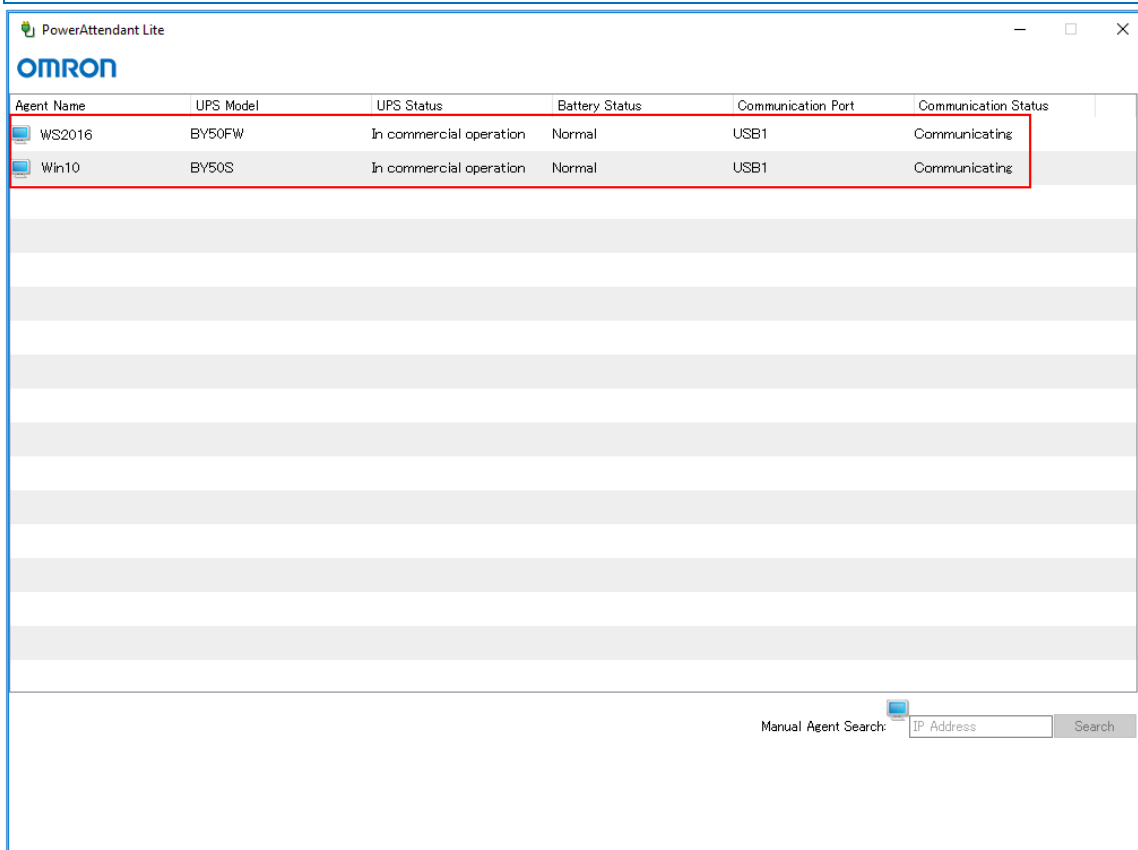
By installing the software, the shortcut of [ Power Attendant Lite ] is created on the desktop. You can start using this icon.



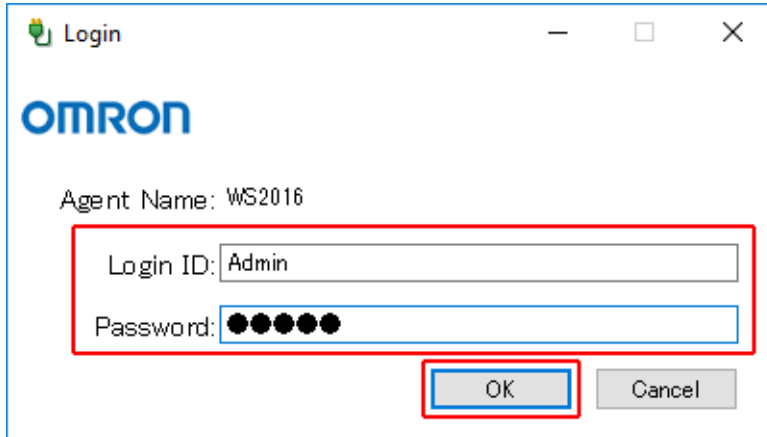
- ② Click the agent name in the agent list window.

#### Hint

Agents detected by the software are displayed in the agent list window. In this version, only agents installed to own computer are displayed.



- ③ Enter “login ID” and “Password” and click the “OK” button.

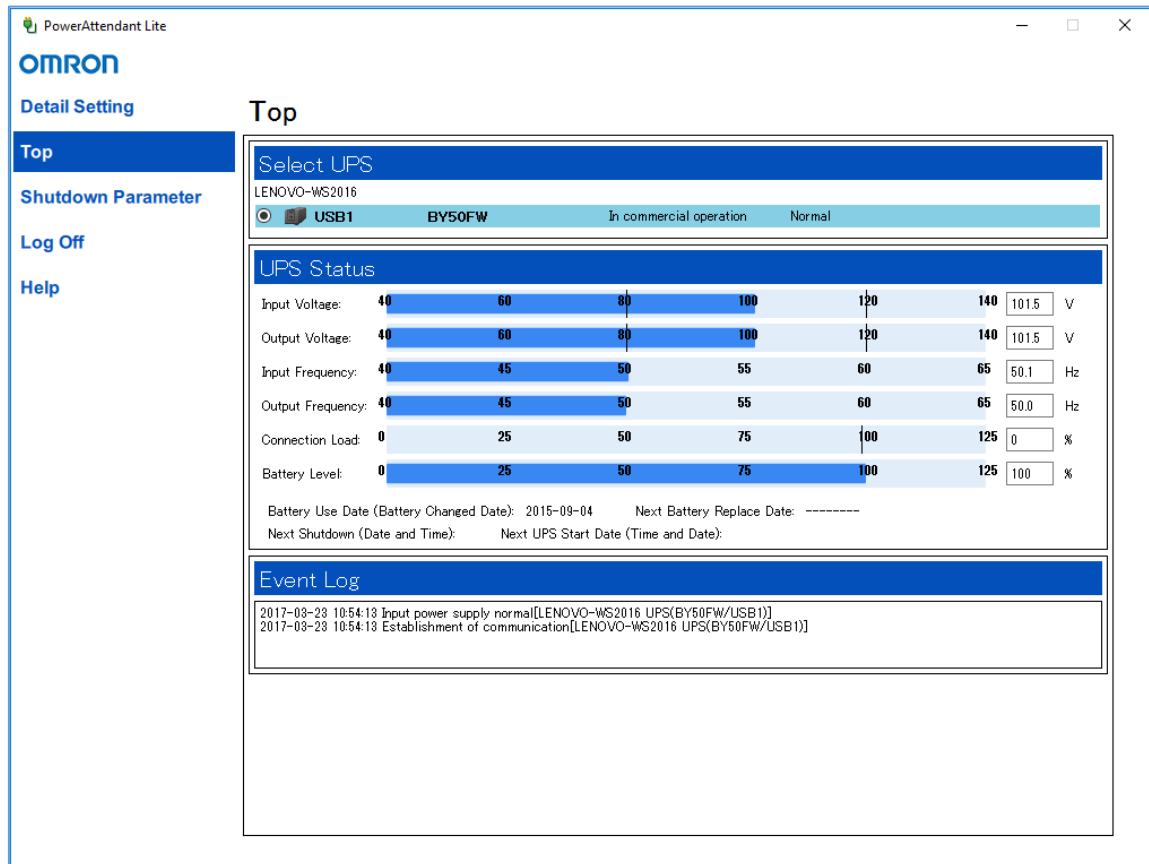


※Factory default settings: Login ID=Admin/Password=omron

**Hint**

A new user can register in the “User Access Right Setting” of the “Other” menu.

- ④ The agent logged in is displayed on the top window.



### 3-3 Operation Test

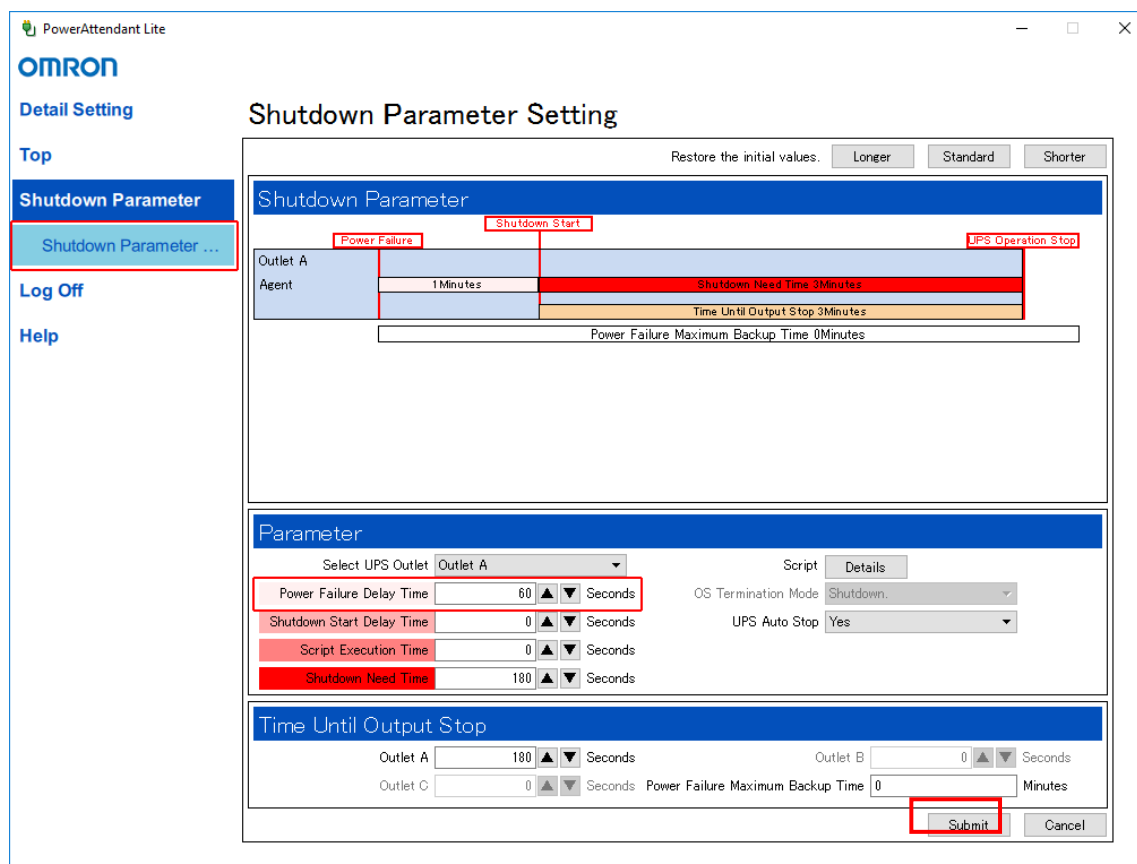
Make a UPS into a power outage state spuriously (stopping the supply from the commercial power) and test if the software shuts down a computer normally.

#### 3-3-1 Setting for Operation Test

- Click [Shutdown Parameter] menu.

Check “AC Fail Delay Time” of “Parameter”. By default, shutdown is started in “60 seconds” from stopping power supply of the UPS.

Change the time as needed and click the [Submit] button.



#### 3-3-2 Conducting Operation Test

Stop the power supply of UPS and test if the software shuts down a computer normally.



As a precaution, save a data being generated.



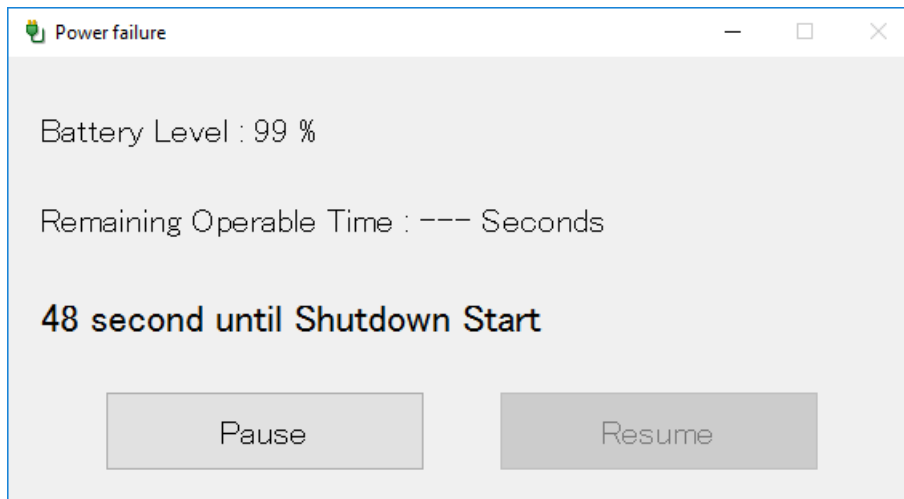
Check that the UPS and the computer are connected by a communication cable and the task tray icon

indicates “In commercial operation”.

- ① Pull out the AC input plug of the UPS from an outlet.
- ② The task tray icon changes to the indication for occurring AC line failure.



- ③ A countdown of the shutdown AC Fail Delay Time is started.  
The countdown pauses by clicking the [Pause] button.



- ④ After finishing the countdown, the computer is shut down.  
※In the initial setting, a UPS stops automatically.
- ⑤ After checking that the computer is shut down normally, insert the AC input plug of the UPS into an outlet to start the UPS.
- ⑥ Start the computer.
- ⑨ In the task tray icon, check that the agent operates normally.



Then, test is completed.

# Chapter 4

## Setting

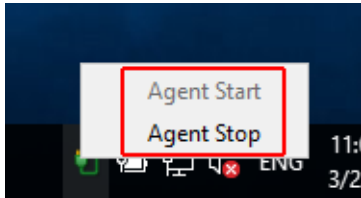
You can set the all functions of the software in the setting window.

## 4-1 Agent Operation

### 4-1-1 Start/Stop of Agent

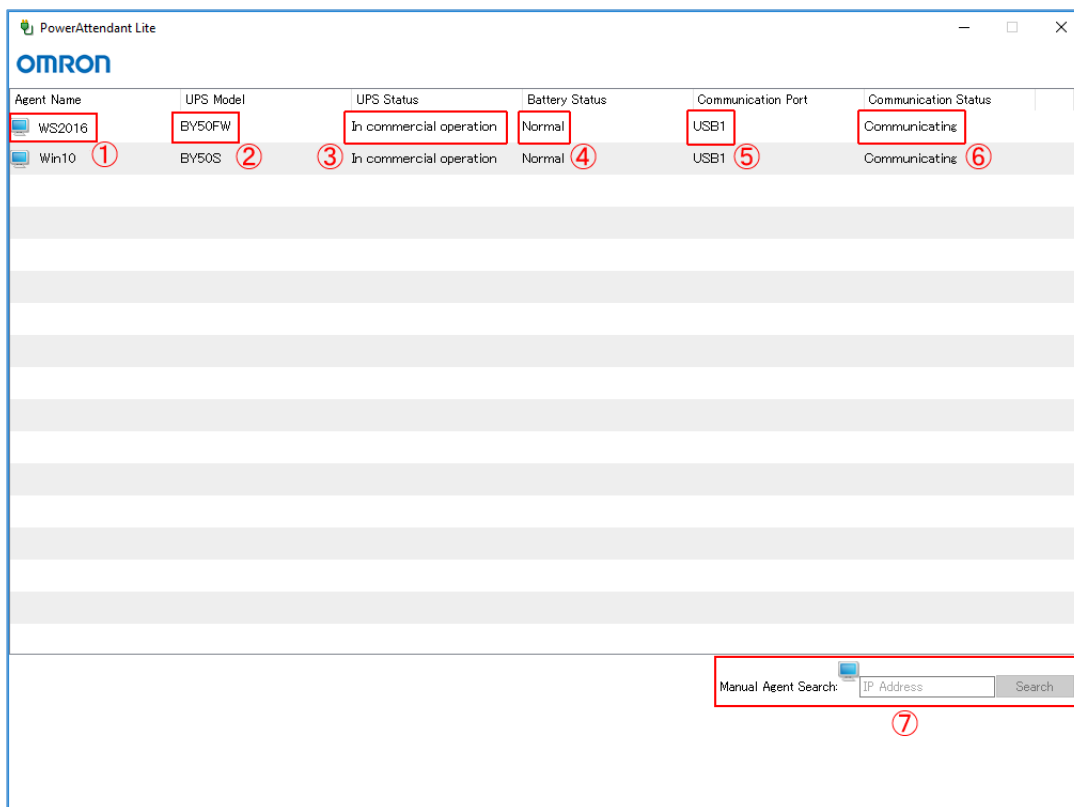
By installing the software, an agent that monitors a UPS status resides.

The agent is started or stopped by right-clicking the task tray icon.



### 4-1-2 How to See Agent List Window

By starting the setting window, the agent list is displayed.





	Item	Display Contents
①	Agent Name	Agent names are displayed in the agent list window. Double-click the agent name to login the setting window.
②	UPS Model	Connected UPS Model name
③	UPS Status	The following UPS statuses are displayed. Communication error/Standby/Awaiting Shutdown/Awaiting Rebooting/Shutdown/Backing up/Testing/In commercial operation
④	Battery Status	Displays the following battery status. Battery Disconnected/Battery Low/Battery Weak/Testing/Charging/Discharging/Battery Life/Battery Fault/Normal
⑤	Communication Port	Connected Communication port names are displayed. USBx or COMx (x=Port number)
⑥	Communication Status	Communication statuses of the UPS and the computer are displayed. Communicating/No display

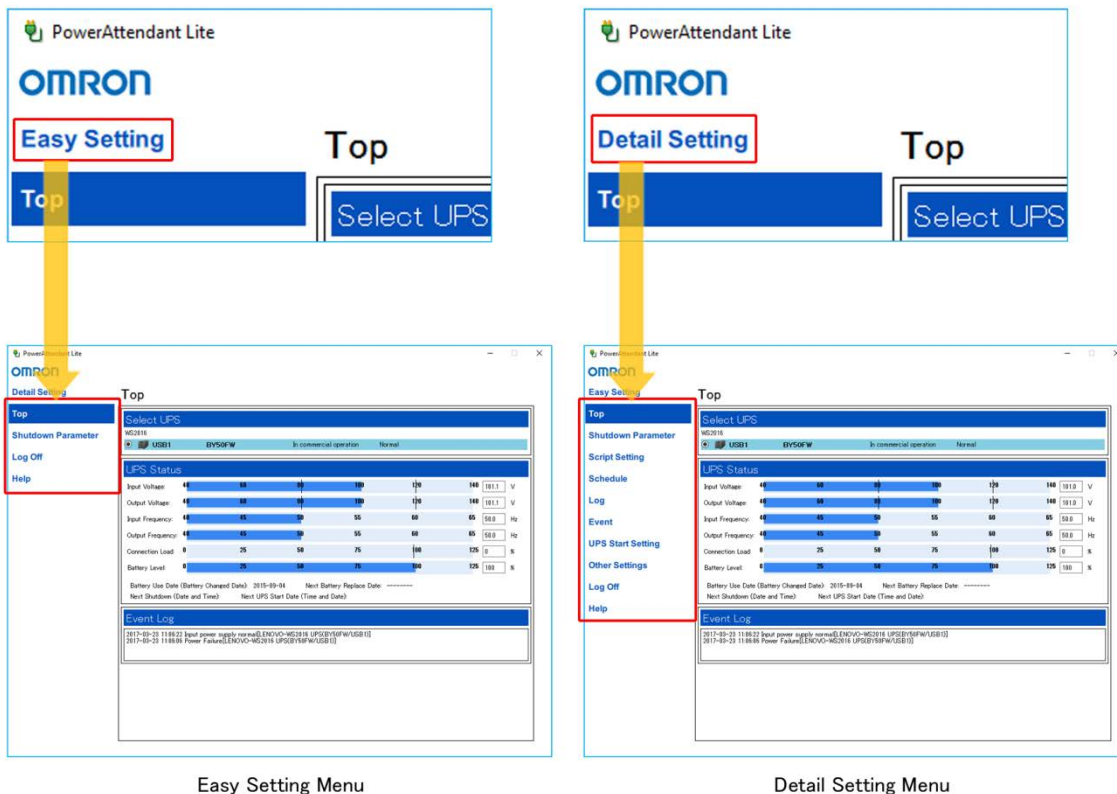
#### ■ Manual Agent Search

If the objective agent is NOT displayed, enter the IP address to the “Manual Agent Search” and click the [Search] button.

## 4-2 Usage of Menu

### 4-2-1 Easy Setting Menu and Detail Setting Menu

It is possible to change 2 menu displays in the setting window. There are “Easy Setting” that displays frequently used UPS items and “Detail Setting” that displays all items.



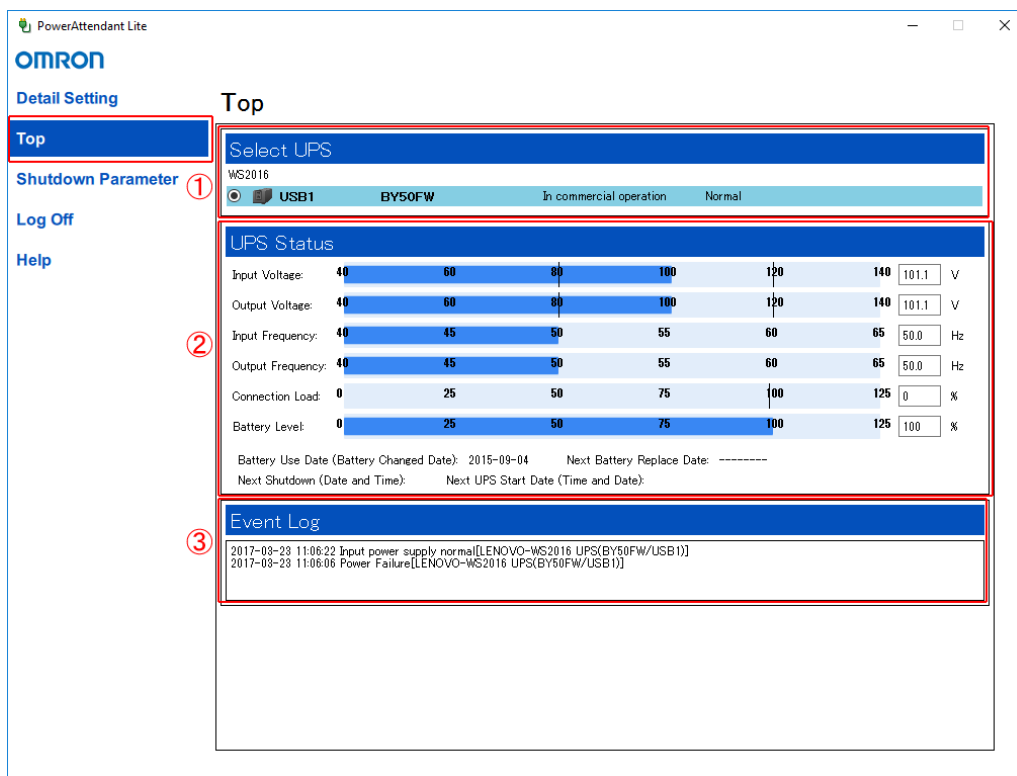
## 4-2-2 Setting Menu List

Menu Items	Setting Option		Menu Display	
			Easy	Details
Top	<ul style="list-style-type: none"> <li>• Selecting UPS</li> <li>• UPS Status</li> <li>• Event Log</li> </ul>		○	○
Shutdown Parameter	Shutdown Parameter Setting	<ul style="list-style-type: none"> <li>• Shutdown Parameter</li> <li>• Parameter</li> <li>• Time Until Output Stop</li> </ul>	○	○
	Shutdown Option Setting	<ul style="list-style-type: none"> <li>• Emergency Shutdown</li> <li>• AC Fail Delay Time Cancel Shutdown</li> <li>• Communication Error Shutdown</li> <li>• Shutdown at the time of abnormality occurrence</li> <li>• Warning Occurrence Shutdown</li> </ul>		○
Script Setting	<ul style="list-style-type: none"> <li>• Script Setting</li> </ul>			○
Schedule	Schedule Registration	<ul style="list-style-type: none"> <li>• Registered Schedule</li> <li>• Schedule Registration</li> </ul>		○
	Schedule Setting	<ul style="list-style-type: none"> <li>• Schedule Shutdown Warning Start Setting</li> </ul>		○
Log	Event Log	<ul style="list-style-type: none"> <li>• Period Setting</li> <li>• Event Log Option</li> <li>• Event Occurrence Situation</li> </ul>		○
	Data Log	<ul style="list-style-type: none"> <li>• Selecting UPS</li> <li>• Period Setting</li> <li>• Data Log Option</li> </ul>		
Event	<ul style="list-style-type: none"> <li>• Action Information</li> </ul>			○
UPS Start Setting	<ul style="list-style-type: none"> <li>• UPS Reboot Setting</li> <li>• Output Start Delay Time of UPS Boot Up</li> <li>• UPS Cold Start</li> </ul>			○
Other Settings	UPS Setting	<ul style="list-style-type: none"> <li>• Select UPS</li> <li>• Battery Auto Test</li> <li>• Input/Output Setting</li> <li>• Battery Use Date (Battery Replace Date)</li> </ul>		○
	Communication Setting	<ul style="list-style-type: none"> <li>• UPS Communication Port</li> <li>• Network Setting</li> <li>• Data Update Time</li> </ul>		○

Menu Items	Setting Option		Menu Display	
			Easy	Details
		<ul style="list-style-type: none"> <li>• Logoff Time</li> </ul>		
	Manual Operation	<ul style="list-style-type: none"> <li>• Selecting UPS</li> <li>• Buzzer</li> <li>• Shutdown Immediately</li> <li>• Self Test</li> <li>• Outlet B</li> <li>• Outlet C</li> <li>• Setting Information</li> </ul>		○
	Command Transmission	<ul style="list-style-type: none"> <li>• Selecting UPS</li> <li>• Command</li> </ul>		○
	User Access Right Setting	<ul style="list-style-type: none"> <li>• Registered User</li> <li>• Log</li> <li>• User Access Right Setting</li> </ul>		○
	Synchronization Setting	<ul style="list-style-type: none"> <li>• Synchronization Setting</li> </ul>		○

## 4-3 How to See Top Window

By displaying the setting window, the top window is displayed at first. The status of the connected UPS and the information of occurred events are displayed on the window.



	Item	Description
①	Agent Name	Overviews of the UPS status are displayed.
②	UPS Status and Schedule	<p>“Input Voltage”, “Output Voltage”, “Input Frequency”, “Output Frequency”, “Connection Load” and “Battery Level” of the UPS are displayed with charts and numeric values.</p> <p>The time of “Battery Use Date (Battery Changed Date)” and “Next Battery Replace Date” are displayed.</p> <p>The scheduled dates and times of next shutdown and starting the UPS are displayed.</p>
③	Event Log	Occurred events are displayed.

## 4-4 Setting Shutdown Parameters

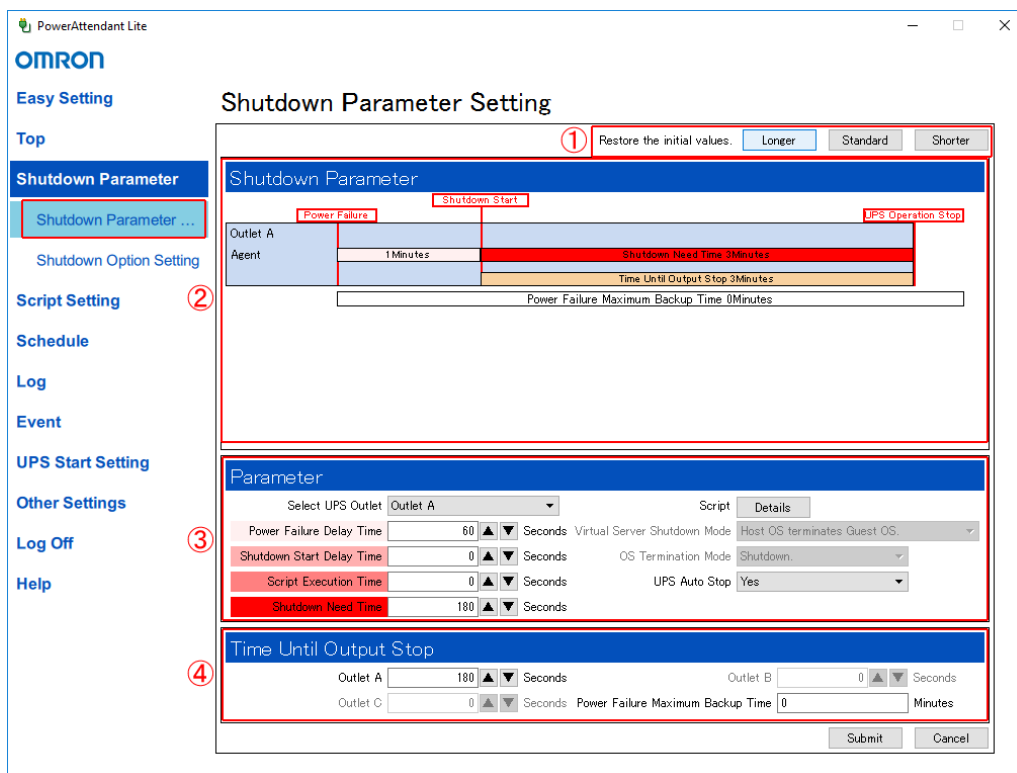
Set the shutdown operation.

There are 2 setting menus of “Shutdown Parameter Setting” and “Shutdown Option Setting”.

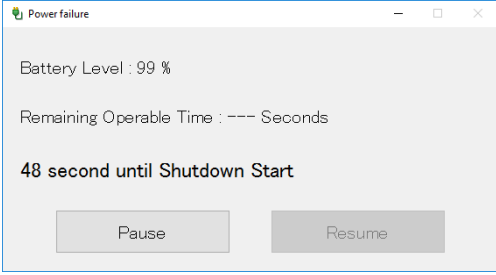
**Hint**

After changing the setting, click the [Submit] button.

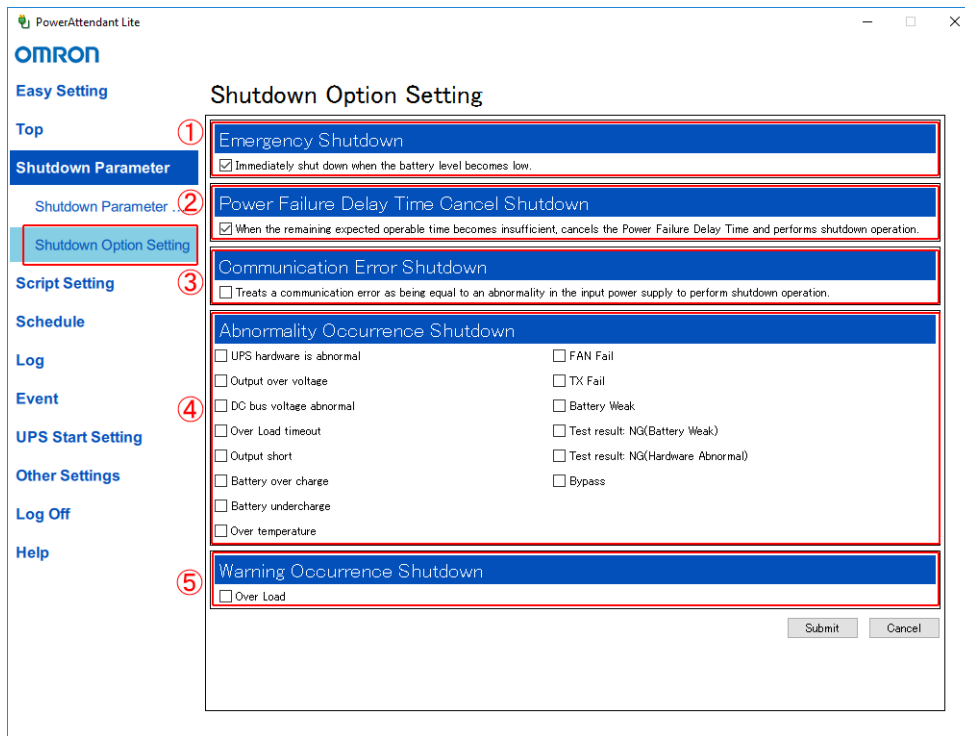
### 4-4-1 Shutdown Parameter Setting



	Item	Description
①	Pattern Setting of Parameter	Set the preset parameter patterns of shutdown. 3 patterns (Longer/Standard/Shorter) are prepared depending on the length of shutdown operations. By select the [Restore the initial values.], set to the default parameter (Standard).
②	Shutdown Parameter	The shutdown parameter set in “Parameter”, “Time Until Output Stop” is displayed with charts.
③	Selecting UPS Outlet	Select the outlet of the UPS that the computer is connected.
	AC Fail Delay Time	Set the time until shutdown operation starts after detecting AC line failure of UPS. (0-36,000 seconds) ※During AC Fail Delay Time, the following “AC line failure” window is displayed in the window.

	Item	Description
		 <p>It is possible to [Pause] [Resume] a countdown.</p>
	Shutdown Start Delay Time	<p>Set the delay time, if you want to further delay the start of shutdown operation after shutdown operation starts.(0-7,200 seconds)</p> <p>For example, if you want to start shutdown 1 minute after Shutdown Start Time, set to 60 seconds.</p>
	Script Execution Time	<p>Scripts are executed only in set time. (0-14,000 seconds)</p> <p>The next operation (closing applications or OS shutdown operation) is NOT executed until a set time elapses.</p>
	Shutdown Need Time	<p>Set the time necessary for shutting down the computer.(0-1,800 seconds)</p> <p>※If the time is short, power supply is cut from the UPS before normal shutdown is executed.</p>
	Using Script	<p>When scripts are executed, select the execution script.</p> <p>Click the [Details] button and select in the [Script Execution List] window.</p>
	OS Shutdown Mode	<p>Select a shutdown status of OS.</p> <p>For the OS, select between Terminates by Shutdown. and Terminates by Hibernate.</p>
	UPS Auto Stop	<p>Set whether to automatically stop the UPS after the computer shuts down.</p>
④	Time Until Output Stop	<p>Set the time until power supply is stopped to the computer. (0-153,000 seconds)</p> <p>※ The minimum time changes by setting in “Parameter”. The sum of “Shutdown Start Delay Time”, “Script Execution Time” and “Shutdown Need Time” is the minimum times.</p>
	When input power supply abnormality, Maximum Backup Time	<p>The explanation of Maximum Backup Time when input error</p> <p>Set the time when the UPS supplies power. (0-9,999 seconds)</p> <p>In case of shorter than the shutdown time, it is an error.</p>

### 4-4-2 Shutdown Option Setting



	Item	Description
①	Emergency Shutdown	Shut down the computer and stop the UPS when the battery level becomes low.
②	AC Fail Delay Time Cancel Shutdown	If the expected time from when a power supply abnormality occurs in the UPS until the battery level become zero is shorter than AC Fail Delay Time + Shutdown Time, shutdown operation is started without countdown of AC Fail Delay Time.
③	At the time of Communication Error Shutdown	If a communication error occurs, shutdown operation is started same as a power supply abnormality. However, an error recovery detection term of 10 seconds is set, so when recovering from the error during the time, shutdown is NOT executed.
④	At the time of Abnormality Occurrence Shutdown	Shutdown operation is started when a failure has occurred. Select a failure from the followings. UPS hardware is abnormal/Output over voltage/DC bus voltage abnormal/Over Load timeout/Output short/Battery over charge/Battery short charge/Over temperature/FAN Fail/TX Fail/Battery Weak/Test Results · Abnormal (Battery Weak)/Test Results · Abnormal (Hardware abnormality)/Bypass
⑤	At the time of Warning Occurrence Shutdown	Shutdown operation is started at the time of over load of the UPS.



## 4-5 Setting Scripts

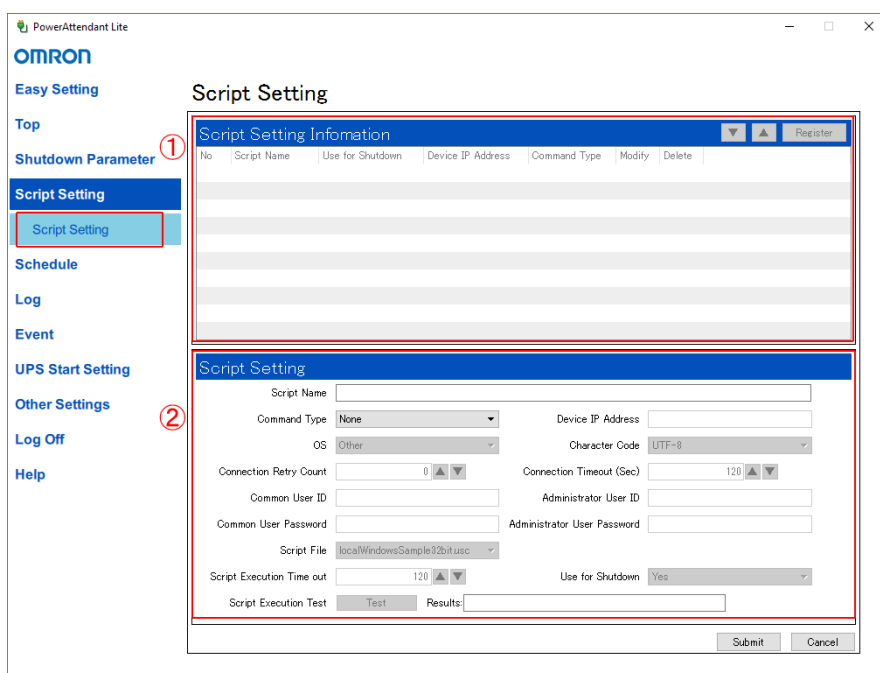
You can execute by sending scripts to other computers.

Scripts are command sets for executing tasks of OS. The software can be used for executing shutdown operation by sending scripts to computers (not connected to the UPS) on network at the time of abnormality occurrence

**Hint**

After changing the setting, click the [Submit] button.

### 4-5-1 Setting Scripts



	Item	Description
①	Information of Script Setting	The saved scripts information is displayed. <ul style="list-style-type: none"> <li>• By clicking the [Register] button, the “Script Setting” field is displayed, and you can create the new scripts.</li> <li>• If there are registered scripts, [Modify] [Delete] buttons are displayed and you can modify and delete them.</li> </ul>
②	Script Name	Enter a script name
	Command Type	Set the communication method for sending scripts. None/Command Line/Telnet/SSH V1/SSH V2 ※ In case of “None”,scripts are invalidated temporarily.
	OS	Set OS of a computer that executes scripts. Other/Windows/Linux/Mac
	Connection Retry Count	Select the number (0-9) of retries when you fail to log in.

	Item	Description
	Login Common User ID	Specify login user ID (common) of the computer that executes scripts.
	Login Common User Password	Specify login password (common) of the computer that executes scripts.
	Login Administrator User ID	Specify login user ID (administrator) of the computer that executes scripts. For Linux/Mac/Unix, enter data if necessary. For Windows, entry is not necessary.
	Login Administrator User Password	Specify login password (administrator) of the computer that executes scripts. For Linux/Mac/Unix, enter data if necessary. For Windows, entry is not necessary.
	Script File	Select an execution script from a script files list. Script files are saved at C:\Users\Public\Documents\OMRON\PAL\ with the extension "usc".
	Script Execution Timeout (Sec)	Set the timeout time of script execution. (0-7,200 seconds) If you set "0", it does NOT time out.
	Script Execution Test	By click the [Test] button, the script execution is simulated based on the set contents. Executing results are displayed in the "Results" field. ※If the "Script Setting" window is closed during execution of the script test, the active script test is suspended.
	Device IP Address	Enter an IP address of a computer that executes scripts.
	Character Code	Set character codes of scripts.
	Connection Timeout (Sec)	Set the timeout time for login. (0-120 seconds) If you set "0", it does NOT time out.
	At the time of Shutdown, Use	Scripts are executed when the computer is shut down.

## 4-5-2 Creating of Scripts

Create scripts as text files by text editor software such as Notepad.

Scripts are 2 lines as a unit and describe “when receiving what, what is sent”.

For example, when receiving the character strings including “\$” from the connection destination, if command su is sent, describe like the followings.

```
rcv=$
snd=su -
```

Save the created scripts at the following folder with the extension “usc”.

```
C:\Users\Public\Documents\OMRON\PAL\
```

The script files saved at this folder are displayed at the “Script File” of the “Script Setting” field (①).

### ■ Script Examples

The following examples are scripts for executing shutdown.

```
rcv=login as:
snd=$u1
rcv=password:
snd=$p1
rcv=$
snd=su -
rcv=:
snd=$p2
rcv=#
snd=init 0
```

### ■ Special Script Commands

\$U1,\$p1,\$u2,\$p2 is available as special parameters. Each can be used as the followings.

Parameter	Contents	Description
\$u1	Login Common User ID	It is replaced to a common user ID of “Script Setting”.
\$p1	Login Common User Password	It is replaced to a common user password of “Script Setting”,
\$u2	Login Administrator User ID	It is replaced to an administrator user ID of “Script Setting”.
\$p2	Login Administrator User Password	It is replaced to an administrator password of “Script Setting”.

### ■ Precautions for Creating Scripts

- From line feed to next line feed is regarded as one line.
- A blank is regarded as one character.
- Character strings that are received before “rcv=” command are ignored.
- Double-byte characters are NOT available. Only ASCII code characters are available.
- It is case sensitive.
- A blank line can not be included.
- If the character string “<CR>” is described to “snd=”, a new line is started.
- You can NOT send character strings including “\$u1”, “\$u2”, “\$p1”, “\$p2” and “<CR>”.
- You can NOT specify the character strings including “<CR>” to “rcv=” pattern.
- There is no limit of the number of lines and characters per line.
- Timeout operation of reception waiting is NOT executed in “rcv=”. It is cut by the timeout of connection of Telnet or SSH.

---

**CAUTION****Prohibition of double execution of scripts**

While a script is executed, it is impossible to execute other scripts.

If plural executed scripts when shutting down are registered, they are executed one by one in the order of registration.

Even if scripts are invoked during executing scripts because events occur, it is ignored.

---

## 4-6 Setting Schedule

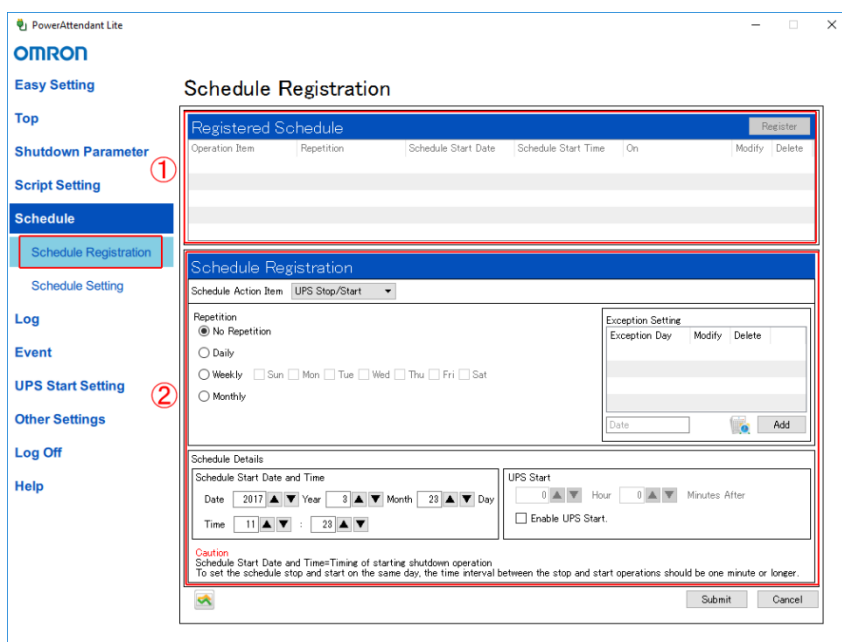
Create a schedule and register it. It is possible to execute schedule executions of “UPS Stop/Start” and “Self Test”.

There are 2 menus of “Schedule Registration” and “Schedule Setting”.

### Hint

After changing the setting, click the [Submit] button.

### 4-6-1 Schedule Registration



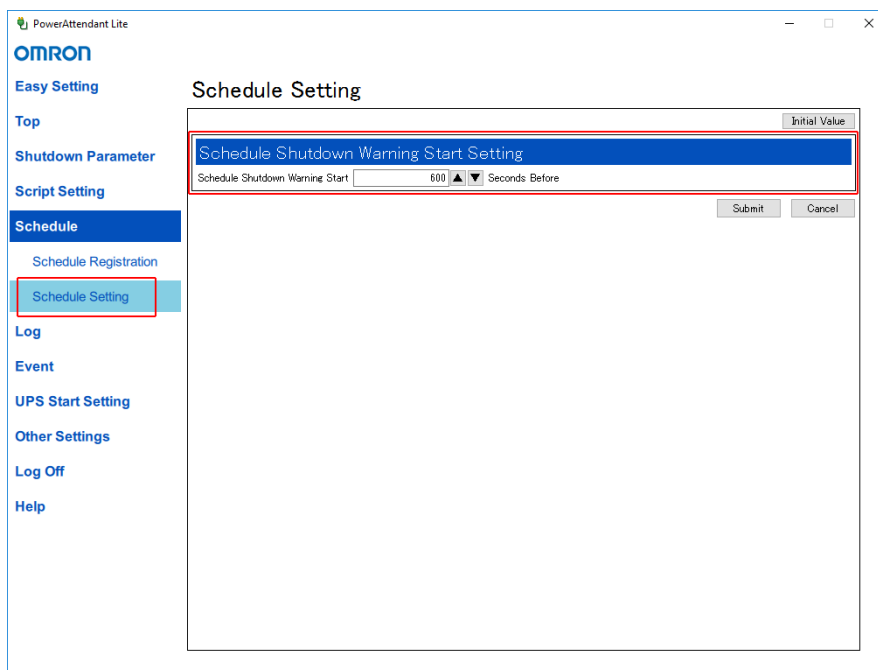
	Item	Description
①	Registered Schedule	The registered schedule information is displayed. <ul style="list-style-type: none"> <li>By clicking the [Register] button, the “Schedule Registration” field (②) is displayed, and you can create the new schedule.</li> <li>If there are registered schedules, [Modify] [Delete] buttons are displayed and you can modify and delete them.</li> </ul> ※You can register 50 schedules at most.
②	Schedule Action Item	Select the object of schedule execution from “UPS Stop/Start” or “Self Test”.
	Repetition	In case of executing schedules repeatedly, specify it. No Repetition/Daily/Weekly(specify the day)/Monthly
	Exception Setting	Specify the date on which schedules are NOT executed from the date on which repetition is specified. Enter the date of exceptions and click the [Submit] button to register. You can edit registered exception days with the [Modify] [Delete]

Item	Description
	<p>buttons.</p> <p>※Exception Days are available to the schedule start day (the day of stopping the UPS). Exception Days are NOT available to the start day.</p>
Schedule Start Date and Time	Set the date and time of starting to stop the UPS.
UPS Start	<p>Set the time until rebooting after the UPS stops.</p> <p>In case of rebooting automatically, check off “Enable UPS Start.”.</p> <p>※ Space out the time intervals (1 minute or more) from the stop time of Schedule Start Date and Time”.</p>

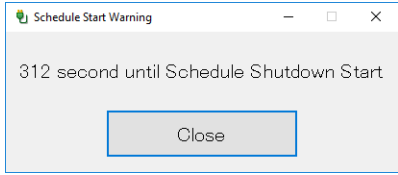
■ Schedule Operation

- Even during operating the setting window, schedules are executed.
- Executed schedules also remain undeleted unless Delete is executed.
- Schedules are executed to the all UPS connected to an agent.
- If schedules that start at the same time is set, they are executed in the order of priorities at “Exception Setting”→”Stop/Start (including only Stop)”→”Self Diagnosis”.
- If schedules that are same priority are registered at the same time, the schedule registered after overrides.

4-6-2 Schedule Setting



Item	Description
Schedule Shutdown	Before schedules start, the following warning window is displayed.

Warning Start	<p>Specify to display on what seconds before schedule starting time. (0-600 seconds)</p>  <p>By clicking the [Initial Value] button, it is set to the default setting (600 seconds).</p>
---------------	---

### Hint

- If the start time of the next schedule reach in Schedule Start Warning Time, the schedule that reaches after are NOT executed.
- If the value of Schedule Start Warning Time is changed while Schedule Start Warning is displayed, the schedule under executing is NOT affected.

## 4-7 Setting and Operating Log

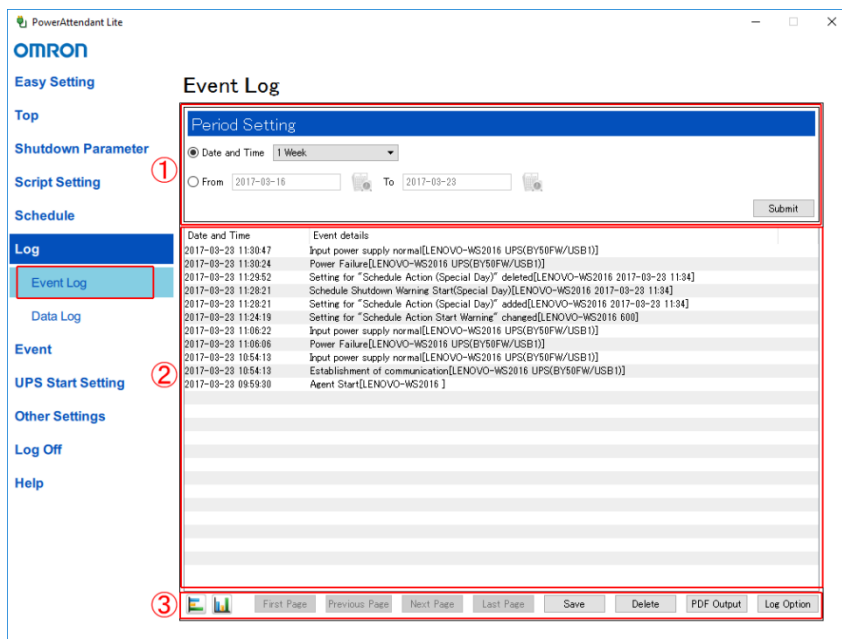
The UPS status and occurring events are recorded, and it is possible to display and output them. There are 2 menus of “Event Log” and “Data Log”.


### Hint

After changing the setting, click the [Submit] button.

### 4-7-1 Event Log

Events occurred in the software and the UPS is displayed and output.



	Item	Description
①	Period Setting	<p>Set the time period to display event log.</p> <p>Set the period by selecting the following specifying methods with a radio button.</p> <ul style="list-style-type: none"> <li>• Date and Time: Select by a drop-down list on a weekly basis.</li> <li>• Period: Enter start day (From) and finish day (To) in the “YYYY-MM-DD” format or click  icon and enter it by selecting from a calendar.</li> </ul> <p>By clicking the [Submit] button, the log is displayed in the event log list at the bottom.</p>
②	Event Log List	Event logs in specified period are displayed.
③	Chart 1 (# Icon)	<p>The number of occurrence is displayed by events (Communication error, Over Load, AC line failure, Battery Weak, Over temperature, Battery Low) by a horizontal bar chart.</p> <p>For operating charts, see the next page “Chart Display”.</p>
	Chart 2 (# Icon)	The number of occurrence of events (Communication error, Over



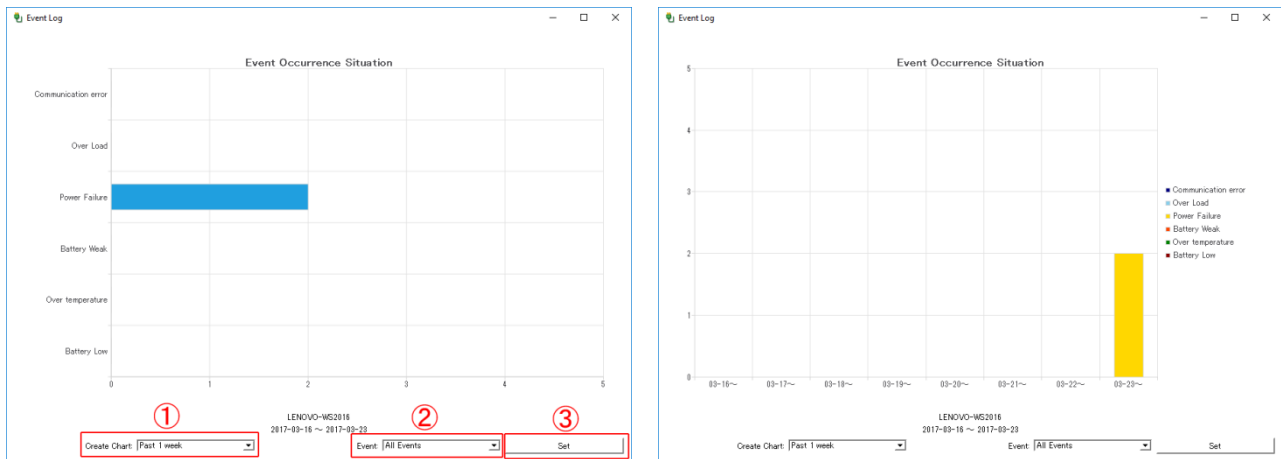
Item	Description
	Load, AC line failure, Battery Weak, Over temperature, Battery Low) occurred is displayed by periods by a column chart.
Navigation Button	If the displays extend over a plurality of pages, you can change the pages by the [First Page], [Previous Page], [Next Page] and [Last Page] buttons.
[Save] Button	<p>Logs are saved at CSV files. It is saved with the following file name.</p> <p>C:\Users\Public\Documents\OMRON\PAL\EventLog_csv_YYY YMMDD.zip</p> <p>※Files are zip-compressed and saved with file names of YYMMDDD on a daily basis. If the same name file exists, it will be overwritten.</p>
[Delete] Button	All saved event logs are deleted.
[PDF Output] Button	<p>Logs are output to PDF files.</p> <p>C:\Users\Public\Documents\OMRON\PAL\EventLog_pdf_YYY YMMDD.zip</p> <p>※Files are zip-compressed and saved with file names of YYMMDDD on a daily basis. If the same name file exists, it will be overwritten.</p>
[Log Option] Button	<p>Set Maximum Event Log Record Time. Select whether logs are recorded for how many weeks by a drop-down list.</p> <div data-bbox="580 1223 1264 1404" style="border: 1px solid black; height: 80px; width: 100%;"></div>

#### ■ Chart Display

By clicking the [Chart] button, the following chart is displayed.

Chart for the total every event

Weekly total





	Item	Description
①	Create Chart	Select whether logs are charted for how many past weeks by drop-down list.
②	Event	Select logs charted by drop-down list.
③	[Setting] Button	After selecting the period and event, charts are displayed.

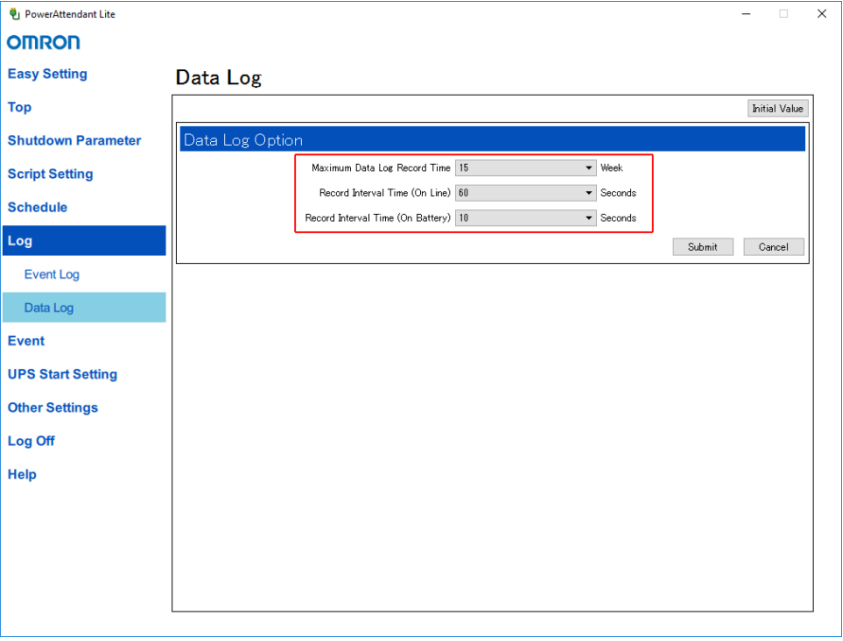
### 4-7-2 Data Log

The UPS statuses are displayed and output.

Events occurred in the software and the UPS is displayed and output.

	Item	Description
①	Period Setting	Set the period for displaying data logs. Set the period by selecting the following specifying methods with a

	Item	Description
		<p>radio button.</p> <ul style="list-style-type: none"> <li>• Date and Time: Select by drop-down list on a weekly basis.</li> <li>• Period: Enter start day (From) and finish day (To) in the “YYYY-MM-DD” format or click  icon and enter it by selecting from a calendar.</li> </ul> <p>By clicking the [Submit] button, the log is displayed in the event log list at the bottom.</p>
②	Data Log List	<p>Data logs in specified period are displayed.</p> <p>Max. Value/Min. Value/Av. Value of each data and lists for each date are displayed.</p>
③	Chart Button(  )	<p>The transition of commercial power voltage is displayed by a line chart.</p> <p>For operating charts, see the next page “Chart Display”.</p>
	Navigation Button	<p>If the displays extend over a plurality of pages, it is possible to change the pages by the [First Page], [Previous Page], [Next Page] and [Last Page] buttons.</p>
	[Save] Button	<p>Logs are saved at CSV files. It is saved with the following file name.</p> <p>C:\Users\Public\Documents\OMRON\PAL\DataLog_csv_YYYYMMDD.zip</p> <p>※Files are zip-compressed and saved with file names of YYYYMMDD on a daily basis. If the same name file exists, it will be overwritten.</p>
	[Delete] Button	<p>All saved logs are deleted.</p>
	[PDF Output] Button	<p>Logs are output to PDF files.</p> <p>C:\Users\Public\Documents\OMRON\PAL\DataLog_pdf_YYYYMMDD.zip</p> <p>※Files are zip-compressed and saved with file names of YYYYMMDD on a daily basis. If the same name file exists, it will be overwritten.</p>
	[Log Option] Button	<p>Set the followings and click the [Submit] button.</p> <ul style="list-style-type: none"> <li>• The maximum time for recording logs: The period for recording logs</li> <li>• Record Interval Time (On Line): Interval time for receiving data on commercial operation</li> <li>• Record Interval Time (On Backing up): Interval time for receiving data on backing up operation</li> </ul>

Item	Description
	

■ Chart Display

By clicking the [Chart] button, the following chart is displayed.



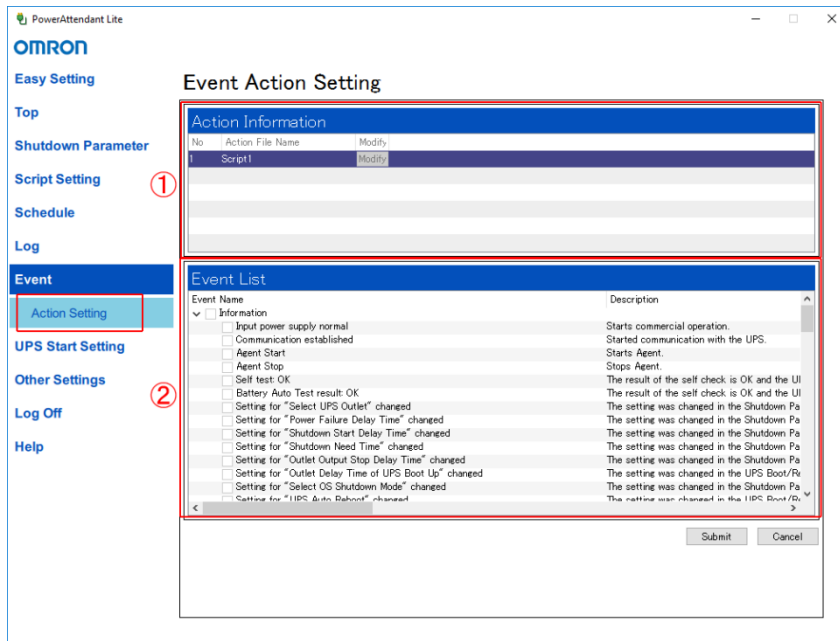
Item	Description
①	Create Chart Select whether logs are charted for how many past hours by drop-down list.
②	[Setting] Button After selecting the period and event, charts are displayed.

## 4-8 Setting Event Action

When events have occurred in the software and the UPS, the specified action is executed . Describe executing actions to script files and save them in advance.

### Hint

After changing the setting, click the [Submit] button.



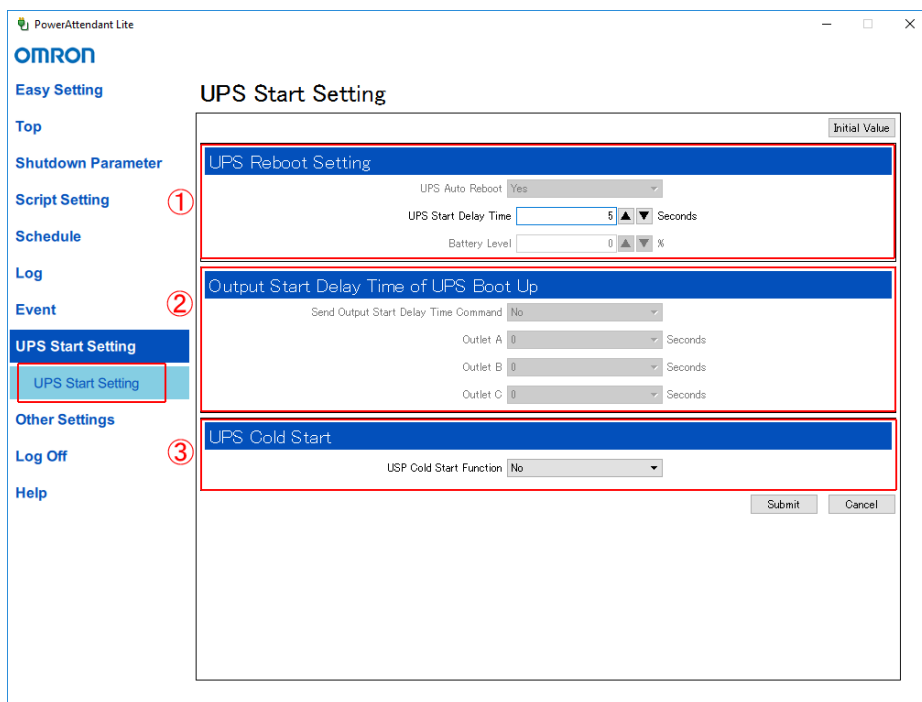
	Item	Description
①	Action File Name	Script files name (the extension “usc”) saved at specified folder (C:\Users\Public\Documents\OMRON\PAL\) are displayed.
	[Modify] Button	By clicking it, the following events list is displayed.
②	Events List	Specify events that become an action execution trigger in the check box.  Events are categorized to 3 of “Information”, “Warning” and “Error”. You can select all categories or individual events in each category.  You can select several events to one action.

## 4-9 Setting UPS Reboot Method

It is possible to automatically reboot the UPS that power supply is shutdown. You can set the condition and operation when rebooting.

### Hint

- After changing the setting, click the [Submit] button.
- By clicking the [Initial Value] button, it is set to the factory default settings.



	Item	Description
①	UPS Auto Reboot	When a power supply abnormality of UPS is recovered, a UPS is rebooted automatically.
	UPS Start Delay Time	Set the delay time until the UPS is rebooted after recovering from a power supply failure.
	Battery Level	If a battery becomes more than specified level, it is possible to start the UPS.
②	Output Start Delay Time of UPS Boot Up	When the UPS starts, it is possible to set the output delay time each outlet. Select "Yes" in "Output Delay Command Transmission" and select the delay time each outlet. If you want to set a time difference for supplying power to connection equipment.
③	USP Cold Start Function	Set whether to enable the UPS cold start function. ##Please add some more explanation.

## 4-10 Setting Others

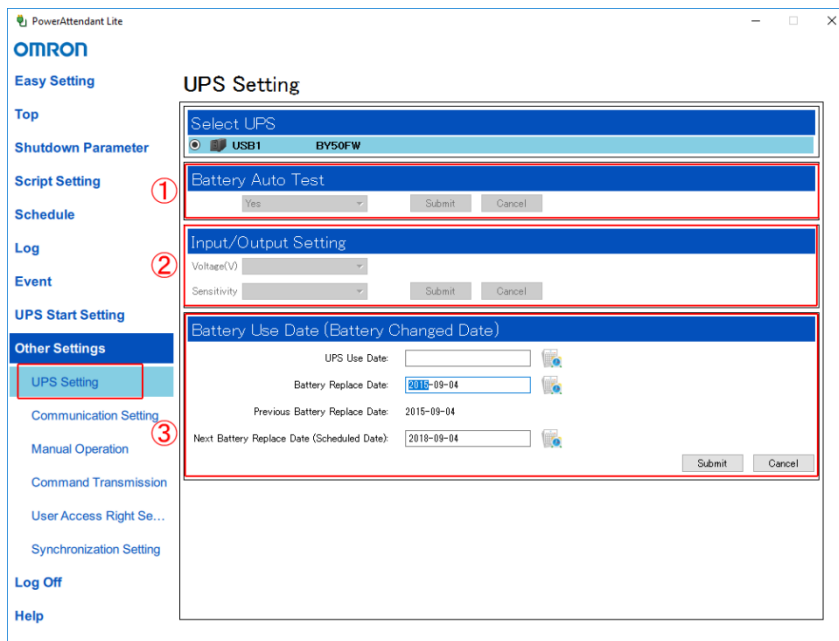
Describes setting for other menus.




### Hint

After changing the setting, click the [Submit] button.

### 4-10-1 UPS Setting

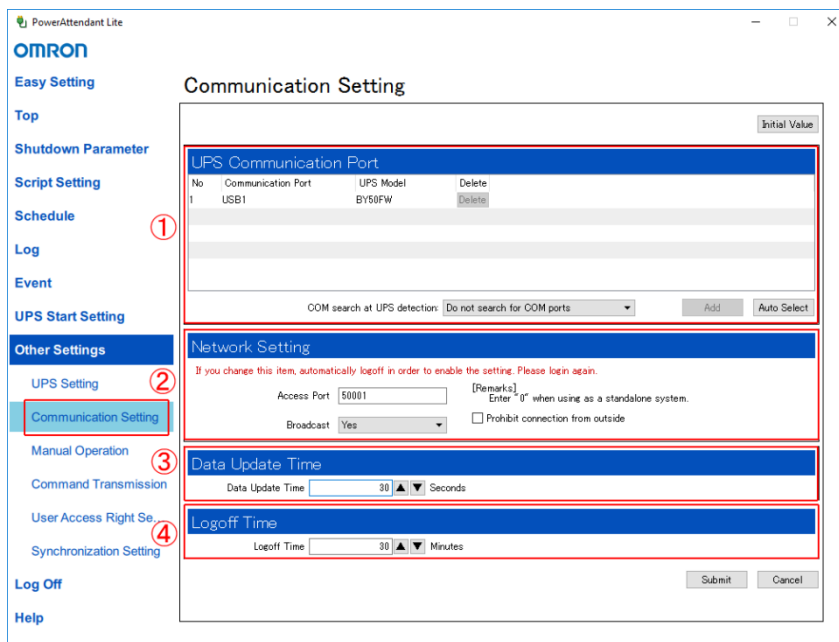
You can set whether to automatically diagnose the battery deterioration state, output voltage/ input sensitivity of the UPS, and set and input the replace date of the UPS.



	Item	Description
①	Battery Auto Test	The test for checking a battery weakness is executed automatically. By selecting Auto Test, the test is executed every 4 weeks.
②	Voltage (V)	Set output voltage of the UPS. (24-240V)
	Sensitivity	Select the UPS input sensitivity. High Sensitivity/Standard Sensitivity/Low Sensitivity
③	UPS Use Date	Period: Enter the UPS use date in the “YYYY-MM-DD” format or click  icon and enter it by selecting from a calendar.
	Battery Replace	Period: Enter the date of the battery replace in the “YYYY-MM-DD” format or click  icon and enter it by selecting from a calendar.
	Next Battery Replace Date (Scheduled dates)	Period: Enter the scheduled date of the next battery replace in the “YYYY-MM-DD” format or click  icon and enter it by selecting from a calendar.

## 4-10-2 Communication Setting

Settings about communication of UPS and the software are conducted.



### Hint

By clicking the [Initial Value] button, it is set to the factory default settings.

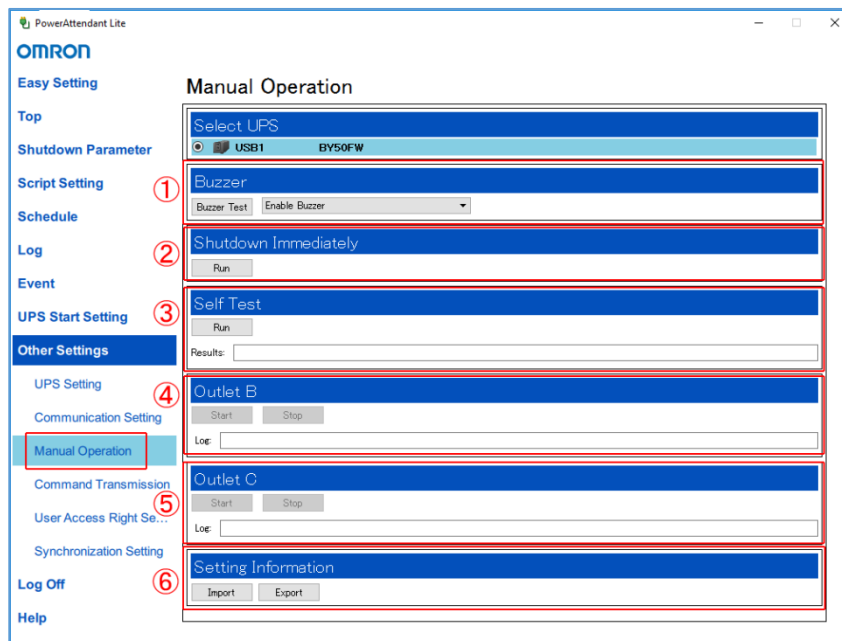
	Item	Description						
①	UPS Communication Port	Communication port that a UPS is connected and UPS model are displayed.						
	[Delete] Button	Communication port that a UPS is connected is deleted. ※If you delete it, communication with a UPS is cut. You can NOT delete a UPS port.						
	COM search at UPS Detection	Set COM ports searching method at UPS detection. Search in the following ports and in order. <table border="1" data-bbox="563 1668 1404 1863"> <tbody> <tr> <td>Do not search for COM ports</td> <td>Only USB ports</td> </tr> <tr> <td>Search for specified COM ports only</td> <td>Registered ports→USB ports</td> </tr> <tr> <td>Search for all COM ports</td> <td>USB ports→COM ports</td> </tr> </tbody> </table>	Do not search for COM ports	Only USB ports	Search for specified COM ports only	Registered ports→USB ports	Search for all COM ports	USB ports→COM ports
	Do not search for COM ports	Only USB ports						
Search for specified COM ports only	Registered ports→USB ports							
Search for all COM ports	USB ports→COM ports							
[Add] Button	Add COM ports in the following “Communication Port Setting”. Select a communication port and click the [Submit] button.							



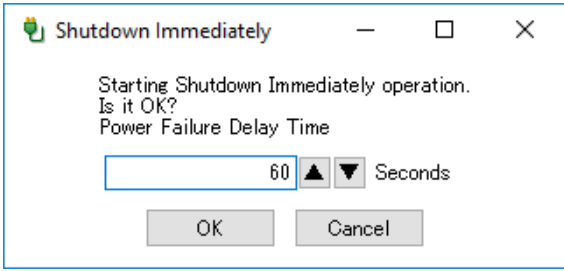
	Item	Description
	[Auto Search] Button	All communication ports are searched and the detected UPS are listed.
②	Access Port	Enter the access port number set to the UPS. The initial setting is 50001 port. ※Set "0" when using as a standalone system.
	Broadcast	Set whether a UPS broadcasts.
	Prohibit connection from outside	Operation from remote computers is prohibited.
③	Data Update Time	Set the interval that the software updates data to a UPS.
④	Logoff Time	Set the time for log off from a UPS.

### 4-10-3 Manual Operation

Describes various manual setting.

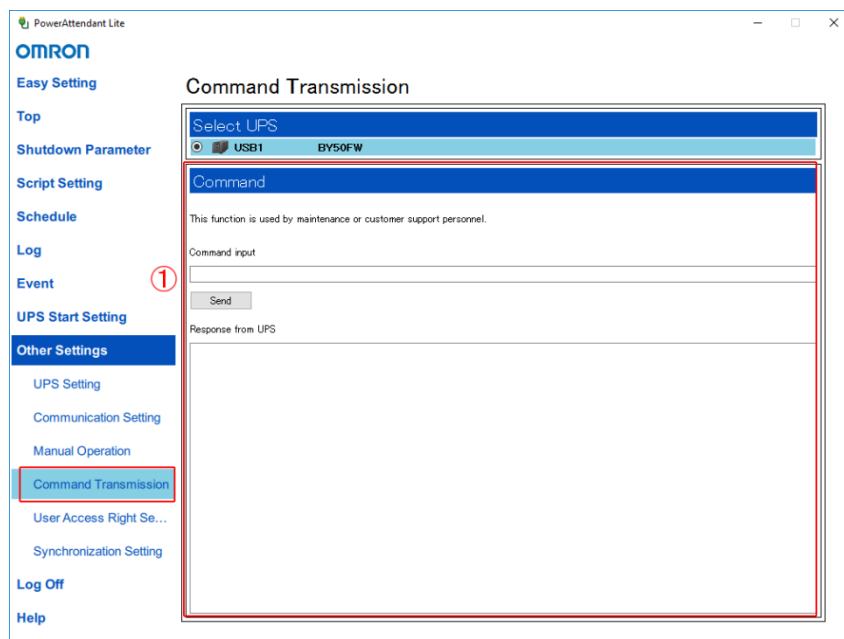


	Item	Description
①	[Buzzer Test] Button	Buzzers of UPS are sounded.
	Setting Buzzers	Set buzzers sounding status. Disable Buzzer/Disable Buzzer(only in backing up)/Enable Buzzer
②	Shutdown Immediately	UPS shutdown is started.
		The following window is displayed and by clicking the [OK] button,

	Item	Description
		shutdown is executed in set AC Fail Delay Time. 
③	Self Test	A self test if each functions of UPS operate normally is executed. The result is displayed as the follows. • YYYY/MM/DD HH:MM Self test: OK • YYYY/MM/DD HH:MM Self test: NG (Hardware Abnormal) • YYYY/MM/DD HH:MM Self test: NG (Battery Weak)
④	Outlet	Start/stop of the output of outlet B/C with control functionality is executed.
⑤	Setting Information	Setting information of the software is imported/exported. By clicking the [Import] button, “PAL_Settings.zip” file is imported from C:\Users\Public\Documents\OMRON\PAL\ By clicking the [Export] button, “APP_Settings.zip” file is exported to C:\Users\Public\Documents\OMRON\PAL\ 

### 4-10-4 Command Transmission

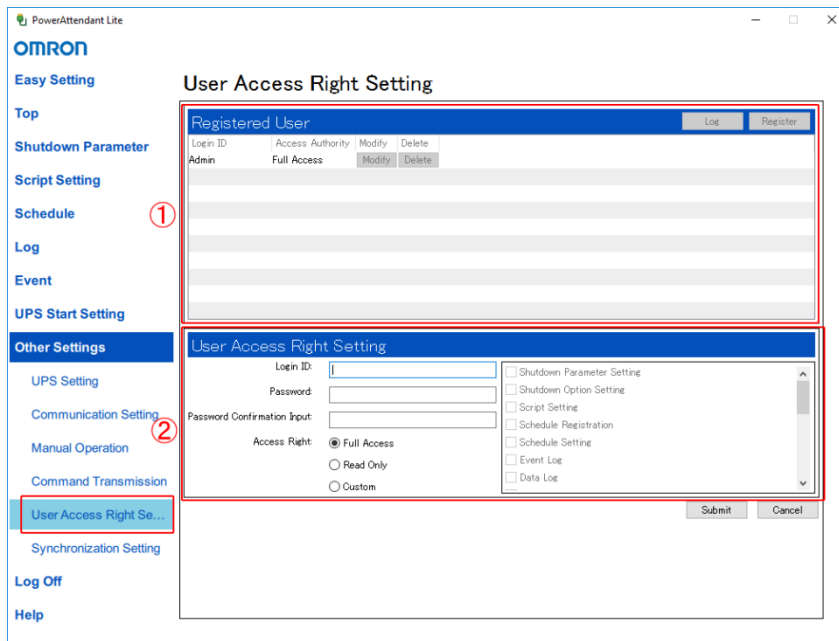
This function is used by maintenance or customer service.  
 By transmitting commands, response from UPS is displayed.



	Item	Description
①	Command Input	Enter commands and click the [Transmit] button.
	Response from UPS	Response from UPS is displayed.

### 4-10-5 User Access Right Setting

You can register and delete users and set password and access right.

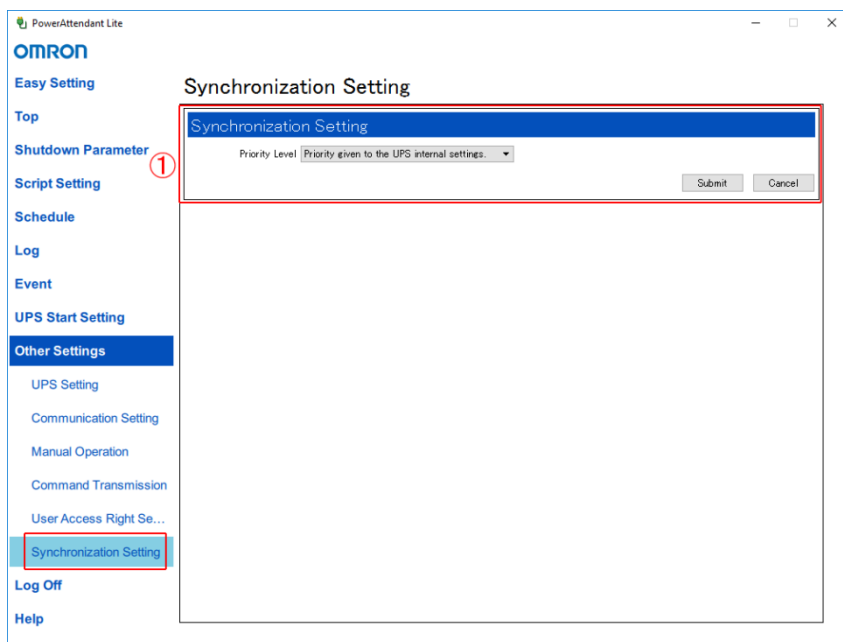


	Item	Description						
①	Registered User List	The list of the software users registered is displayed. You can register 10 IDs at most.						
	[Log] Button	Select a user, and click the button. Log information of the user is displayed.						
	[Register] Button	“User Access Right Setting” window (②) is displayed and register a new user.						
②	ID/Password	Set the login ID/password of the new user.						
	Access Right	<table border="1"> <tr> <td>Full Access</td> <td>It is possible to set • register all.</td> </tr> <tr> <td>Read Only</td> <td>It is possible to only display.</td> </tr> <tr> <td>Custom</td> <td>Select a right.</td> </tr> </table>	Full Access	It is possible to set • register all.	Read Only	It is possible to only display.	Custom	Select a right.
		Full Access	It is possible to set • register all.					
		Read Only	It is possible to only display.					
Custom	Select a right.							

Item	Description
	Check rights that you permit in the right list of right.

### 4-10-6 Synchronization Setting

Set whether the setting values in UPS or the software are prioritized. If there is a difference between each setting values, overwrite with a priority setting.(In case of overwriting, it is recorded to the log.)



Item	Description
① Priority Level	Select whether the setting values in the UPS or the software are prioritized.

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