

User's Guide

PowerAlert® Medical

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1. Introduction

PowerAlert software provides monitoring and control functions of one or two UPS systems. PowerAlert software is installed on a desktop PC or networked server which connects to the UPS system(s) through a serial or USB cable connection. This software can be configured to automatically shut down the computer in the event of a power failure. PowerAlert software also allows the UPS system to appear as an SNMP-manageable device on the network, enabling remote monitoring and control via PowerAlert Network Management System (PANMS) software or a third-party Network Management System.

PowerAlert software is available in three packages:

- **Office** - Advanced monitoring and control functions
- **Home** - Basic monitoring and control functions
- **Medical** - Monitoring and control functions optimized for use with Tripp Lite Medical Cart solutions

Refer to Appendix A for an overview of the functions supported by each of the PowerAlert software packages.

This User Guide covers the features and functions of the Medical package.

1.1 System Requirements

- Personal computer with a supported operating system: Windows 8 or 10; Windows Server 2012, 2016 or 2019
- CPU: 4 core 2.0 GHz or higher
- Memory: Minimum of 4 GB
- Available disk space: Minimum of 300 MB
- Ethernet network that supports the TCP/IP protocol
- Supported web browser: Google Chrome, Mozilla Firefox, Edge, Internet Explorer 10 or later, Safari

Download the latest version of PowerAlert software from the Tripp Lite website at tripplite.com/products/management-software

For detailed instructions on installing PowerAlert software, refer to the PowerAlert Office/Home/Medical Installation Guide.

Note that the three PowerAlert packages are mutually exclusive--only one can be installed at a given time. An existing installation of PowerAlert software must be uninstalled before a different package can be installed.

Once installed and launched, PowerAlert software will automatically attempt to detect a connected UPS system. If the UPS system is not detected, refer to the Scan for Device function in Device Maintenance (Top Menu).

2. PowerAlert Medical

2.1 Accessing the System Tray

The PowerAlert System Tray App provides a quick-reference graphical summary of UPS status. To launch the app, go to the computer's Start Menu, scroll down to the Tripp Lite folder, and click "PowerAlert System Tray App" (Figure 2-1) .

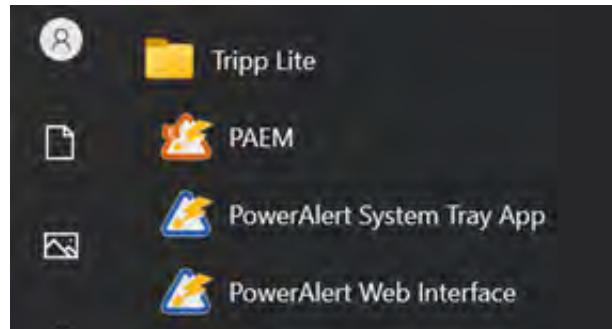


Figure 2-1: Start Menu / Tripp Lite Folder

Open the computer's system tray, then click the PowerAlert icon to generate a graphic showing the status of the UPS (Figure 2-2). Right-click the PowerAlert icon to open a menu of options and select PowerAlert Web Interface to launch the interface.



Figure 2-2: System Tray Icon and UPS Status Graphic

During installation of the PowerAlert software, a PowerAlert Web Interface icon is added to the computer's desktop. To access the interface, double-click the icon. Alternatively, the interface can be accessed from the Tripp Lite folder in the Start menu (Figure 2-3).

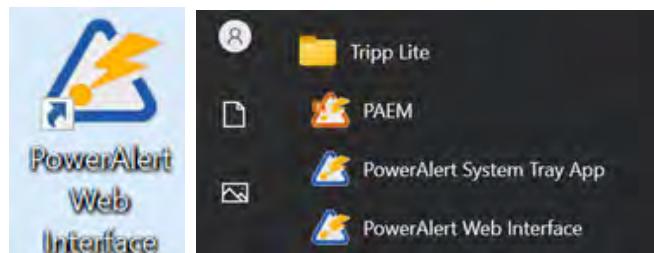


Figure 2-3: Web Interface Desktop Icon and Start Menu item

2. PowerAlert Medical

The default Administrator Username and Password are both **localadmin**. Note that on initial login, you will be required to change the password. Double-click the PowerAlert Web Interface icon to open the login page of the PowerAlert Medical interface (Figure 2-4).

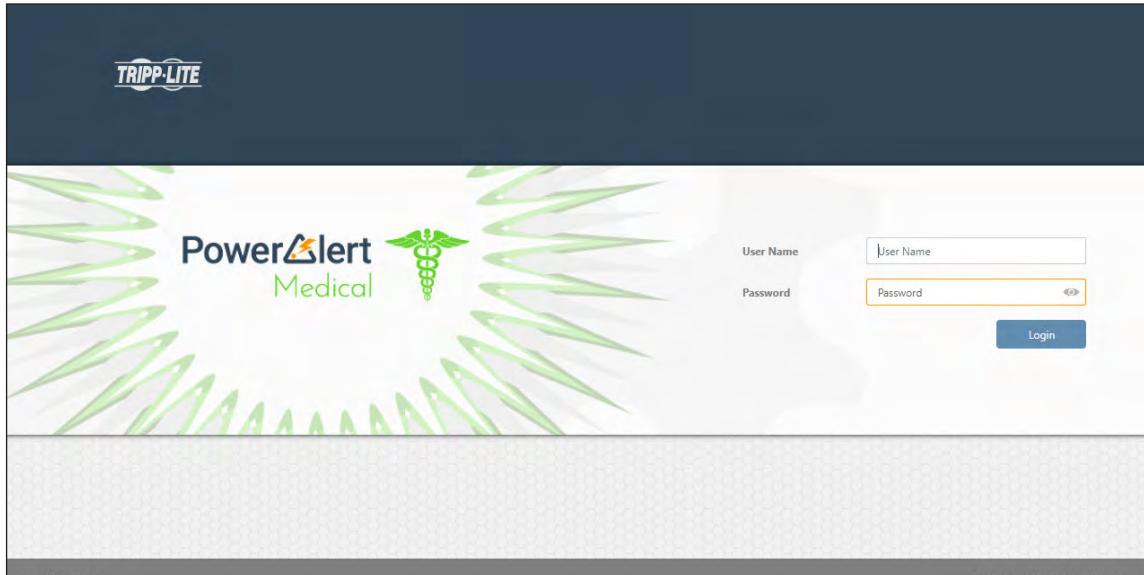


Figure 2-4: PowerAlert Medical Login Page

Remote Access

To access PowerAlert software remotely, open a supported web browser. In the address bar, enter the IP address of the computer on which PowerAlert is installed, followed by the configured port, e.g. <http://192.168.1.1:8080> (Figure 2-5).



Figure 2-5: Accessing PowerAlert from a Web Browser

On logging in, the Dashboard page is displayed (Figure 2-6).

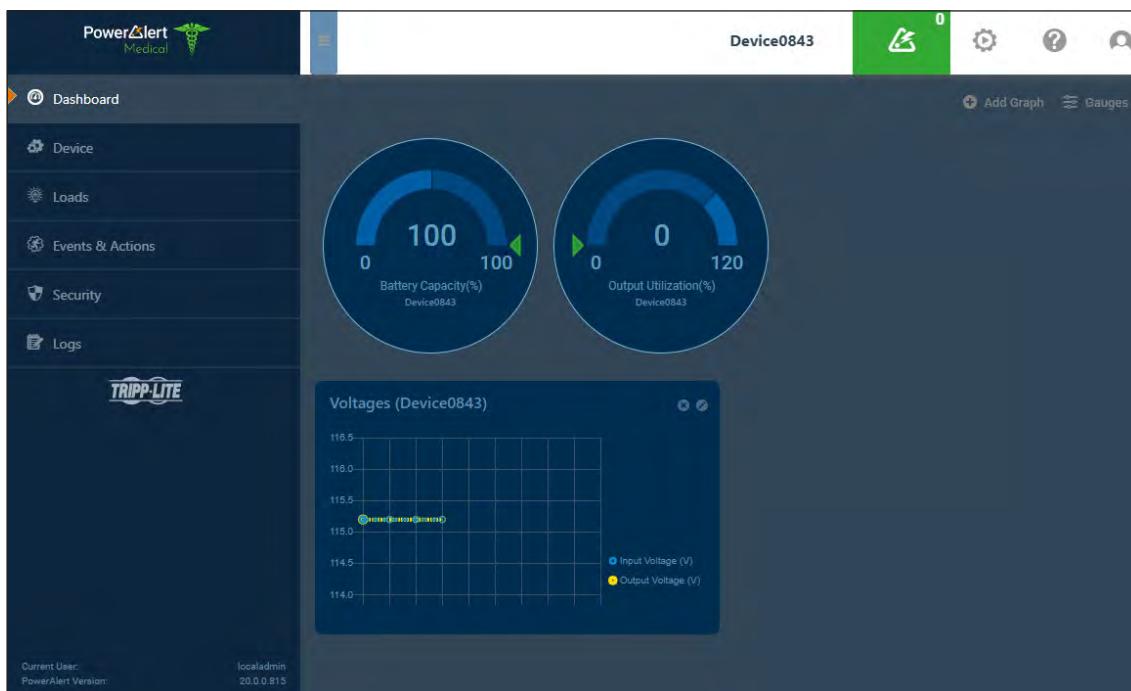


Figure 2-6: Dashboard Page

2. PowerAlert Medical

2.2 PowerAlert Overview

PowerAlert Layout

The PowerAlert Medical web interface is comprised of three main sections (Figure 2-7):

- 1** Top Menu – Alert summary and administrative functions
- 2** Main Menu – Navigation to device management functions
- 3** Content– Information reflective of selections made in the Main Menu or Top Menu

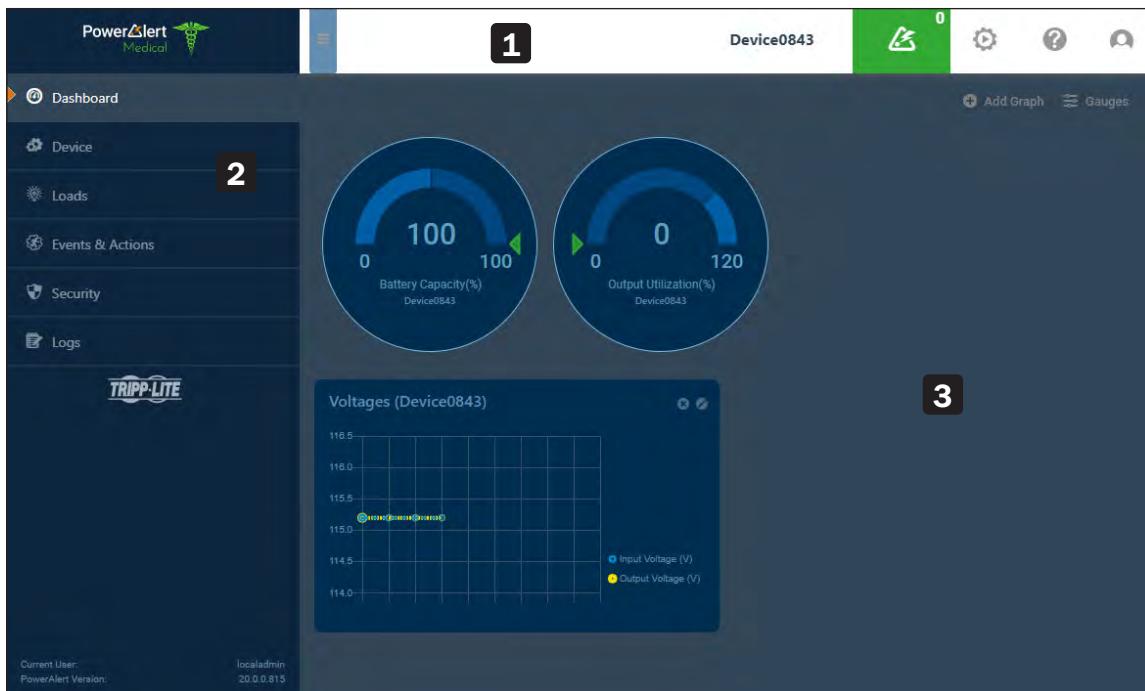


Figure 2-7: PowerAlert Interface Main Sections

2. PowerAlert Medical

Navigation Elements

A number of graphical elements are used for navigation throughout the interface.

Sub-Menus – Certain menu items contain sub-menus. Click a menu item to expand the selection, displaying its sub-menu (Figure 2-8). Click the menu item again to contract the sub-menu.

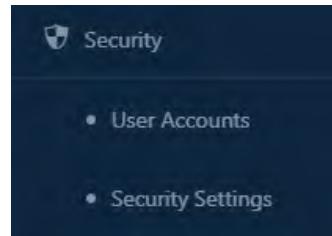


Figure 2-8: Sub-Menus

Tabs – Tabs are used to organize information of a common topic into logical groupings (Figure 2-9). Select a tab to view its content.



Figure 2-9: Tabs

Pages – Sequenced numbers with arrows indicate that the content exceeds one page (Figure 2-10). Select each to navigate pages as follows:

- | | |
|--------|--------------------------------------|
| | Go to the first pages of the content |
| | Go to the previous page number |
| Number | Go directly to the selected page |
| | Go to the next page |
| | Go to the last page of the content |



Figure 2-10: Pages

Scroll Bars – In cases where content exceeds the size of the window, vertical and/or horizontal scroll bars appear (Figure 2-11).

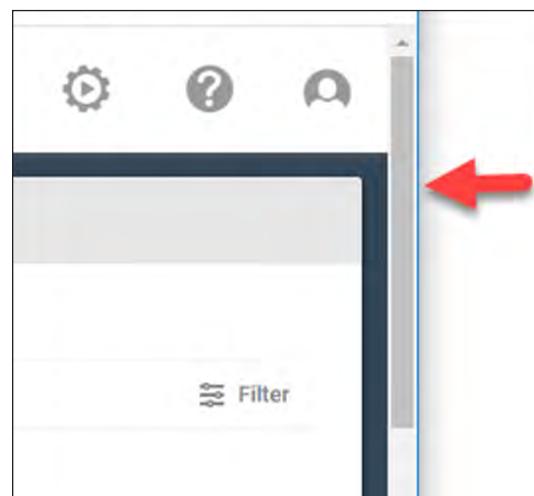


Figure 2-11: Scroll bars

2. PowerAlert Medical

Chevrons – Click the chevron next to an item to expand or contract the content of the item (Figure 2-12).

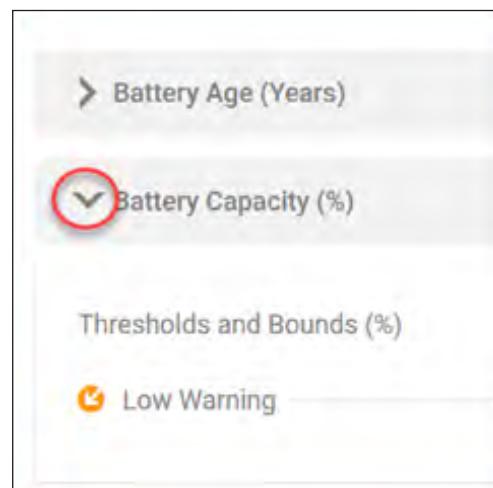


Figure 2-12: Chevrons

Adjusting Views

Sorting – When content is displayed in table format, the information can be sorted in the following manners (Figure 2-13):

- **Columns** – Click a column title to sort the table by that category, in ascending order.
- **Arrows** – Click the up or down arrow adjacent to a column title to sort the table in ascending or descending order, respectively.

Load #	Name	Description
--------	------	-------------

Figure 2-13: Columns and arrows

Filters – Click **Filter** to open a dialog box in which a variety of filtering options can be selected. Click the **Apply Filters** button to update the displayed information. Click the **Clear Filters** button to restore the default view (Figure 2-14).

Apply Filters	Clear Filters	Close >	
Group 0			
State	<input type="checkbox"/> On	<input type="checkbox"/> Off	0
Circuit # 0			
Controllable	<input type="checkbox"/> Yes	<input type="checkbox"/> No	0

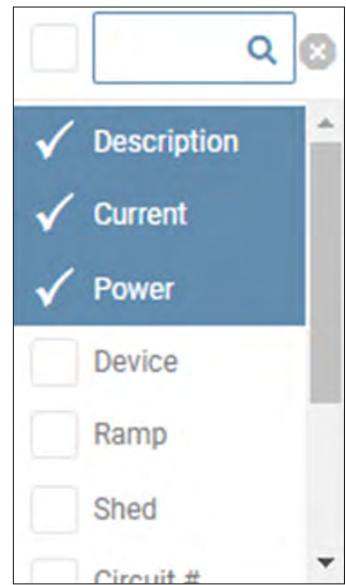
Figure 2-14: Filter functions

2. PowerAlert Medical

Columns – Click **Columns** (in Loads) to open a menu of applicable column titles (Figure 2-15). Select or unselect the preferred column titles, then click anywhere on the screen.



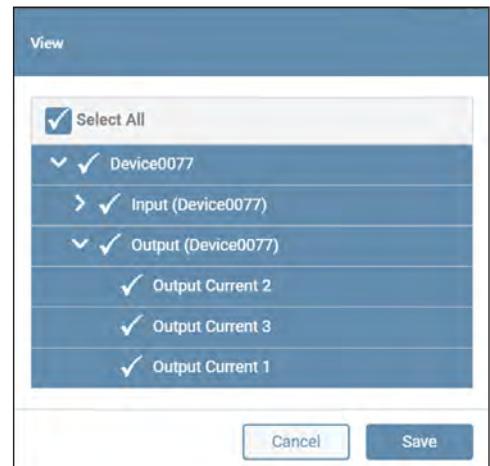
Figure 2-15: Columns



View – Click **View** (in Data Log) to open a menu of variables (Figure 2-16). Select or unselect the preferred variables, then click the Save button.



Figure 2-16: View



Refresh – Click **Refresh** to update the displayed content (Figure 2-17).

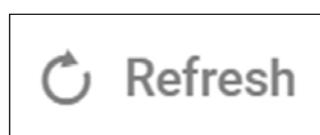


Figure 2-17: Refresh

Export – Click **Export** to configure and generate an export of the contents (Figure 2-18).



Figure 2-18: Export

2. PowerAlert Medical

Icons

Pencil – The pencil icon indicates that the item can be edited (Figure 2-19). Click the icon to open a dialog box in which the edits can be made.



Figure 2-19: Edit

Details – The ‘i’ icon indicates that the item contains details (Figure 2-20). Click or mouse over the icon to view the details.



Figure 2-20: Details

Control – The gear icon indicates that a control can be executed (Figure 2-21). Mouse over the icon to view a description of the control. Click the icon to execute the action.



Figure 2-21. Control

Delete – The ✕ icon indicates the item can be deleted (Figure 2-22). Click the icon to mark the item for deletion; the action will change the icon color to red. To complete the deletion, click the confirmation Delete button (also in red).



Figure 2-22: Delete icon and Delete (confirmation) Button.

Sliders – Sliders allow the state of the item to be manually changed. Colors and symbols reflect the condition or state of the item. Figure 2-23 shows the following sliders, from left to right: Item Enabled, Item Disabled.



Figure 2-23: Slider States

2. PowerAlert Medical

Tags – Colored shape tags indicate the severity of Events and Alerts (Figure 2-24):

red octagon = Critical,
blue circle = Informational,
yellow triangle = Warning.



Figure 2-24: Tags

Checkmark – Used in the Alert summary, a blue Checkmark indicates that an item has been cleared or acknowledged (Figure 2-25).



Figure 2-25: Checkmark

2.3 Top Menu

The Top Menu is used for viewing Alerts and performing administrative functions (Figure 2-26).



Figure 2-26: Top menu

2. PowerAlert Medical

Device

The device name appears to the left of the colored Alert icon. To edit the device name, refer to the Device > Device Properties section of this document. If the computer detects two connected UPSs, the name will become interactive. Click the name to display a pulldown menu containing the device name of each connected UPS. By selecting a device from this menu, the content of the Web Interface will update to reflect the selection (Figure 2-27). In the event that a previously connected device was disconnected, it may appear as (Inactive) in the Device name field. To remove it, go to the Device menu item, Device Properties tab, and click the delete icon (Figure 2-28).



Figure 2-27: Device Selection

A screenshot of the PowerAlert Medical web interface. The top navigation bar includes the logo "PowerAlert Medical". The main menu has items: Dashboard, Device (which is selected and highlighted in blue), Loads, and Events & Actions. A red arrow points to a modal window titled "Device Details" which displays "Device2251" and "(x) Inactive Device".

Figure 2-28: Inactive Device

Alerts

The Alerts icon is located to the right of device name (Figure 2-29). The icon's color (matching Tags) indicates the highest severity level of all active Alerts. The number in the upper right corner of the icon indicates the quantity of active Alerts. Click the icon to display a list of active Alerts for the device as well as any peripherals (e.g. sensors) connected to it (Figure 2-26). An Alert clears when the condition that triggered the Alert is no longer in effect. By default, the list is sorted by Date/Time, in descending order, i.e. the most recent Alerts appear at the top of the list.

Note: If two UPS systems are connected, the Alerts for both devices will be displayed at all times.

Alerts					
Ack.	Cleared	Type	Date/Time	Device	Event
✓		⚠	8/26/2020 4:41:25 PM	Device0077	Load 01 Off
✓		⚠	8/26/2020 4:41:25 PM	Device0077	Loads Not All On

Figure 2-29: Alerts screen

2. PowerAlert Medical

Click **Refresh** to update the page. Click **Filter** to open a window in which options can be selected for refining the displayed content of the Alert Log (Figure 2-30). Click **Close** once all selections have been made.

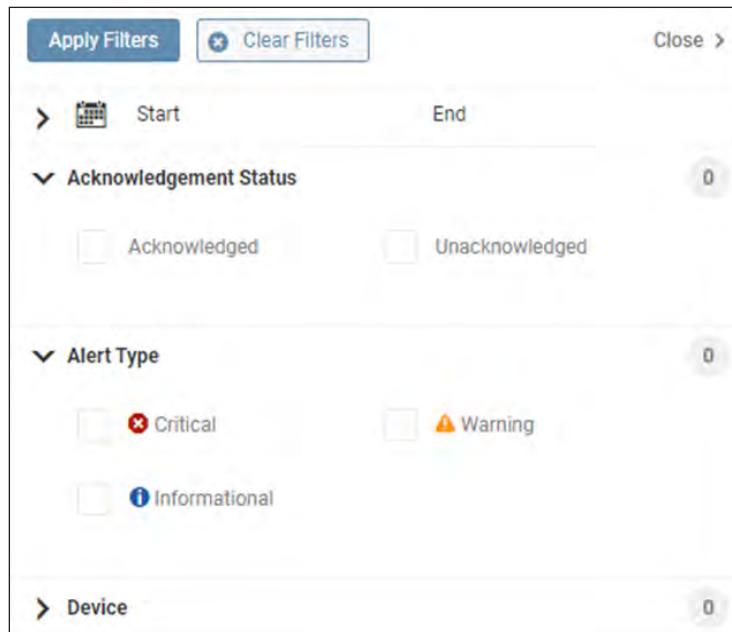


Figure 2-30: Filter

Click **Export** to open a window in which the desired file format (CSV or XML) and export destination can be selected (Figure 2-31). Select the Download option to locally export the log. Upon selecting the Email option, a table of recipients will appear, one of which can be selected. Refer to section **3.5 Events & Actions** > Alert Contact sub-menu item for creating email recipients. Click the **Continue** button to execute the export.

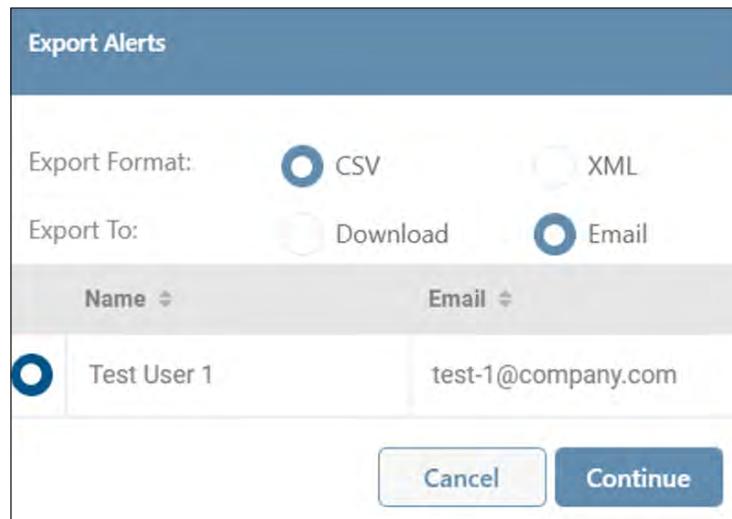


Figure 2-31: Alert export options

2. PowerAlert Medical

Administration

Click the Gear icon to display a sub-menu of Administrative functions supported by the device (Figure 2-32). Note that if ‘LED Configuration’, ‘Restart Device’, ‘Turn Off Device’ or ‘Turn On Device’ do not appear in the pulldown menu, the device does not support these functions.

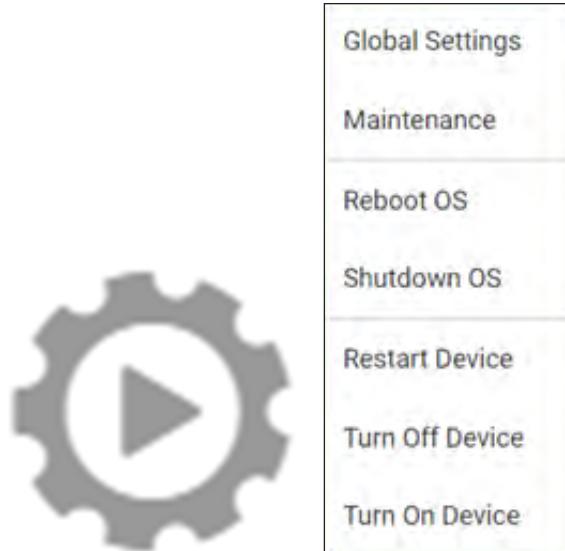


Figure 2-32: Administration Icon and Sub-Menu

2. PowerAlert Medical

Global Settings

This option allows for configuration of global settings, including language, temperature, date & time, as well as shutdown option (Figure 2-33). To exclude a computer port from being used during device scans, select and/or enter the port value in the Device Discover Scanning pulldown menu (Figure 2-34). All users accessing the device are subject to these settings. Users have the option of individually overriding the time zone using the **Preferences** function. Once all configuration parameters have been entered, click the **Save** button.

Global Settings

Language

Default Language

Temperature

Default Temperature Format

Date & Time

Display Time Format Display Date Format

Shutdown Options

Shutdown Method for OS Shutdown Actions

Save

Figure 2-33: Global settings

2. PowerAlert Medical

Maintenance

This option allows for execution of maintenance functions – software update and backup management (Figure 2-34).

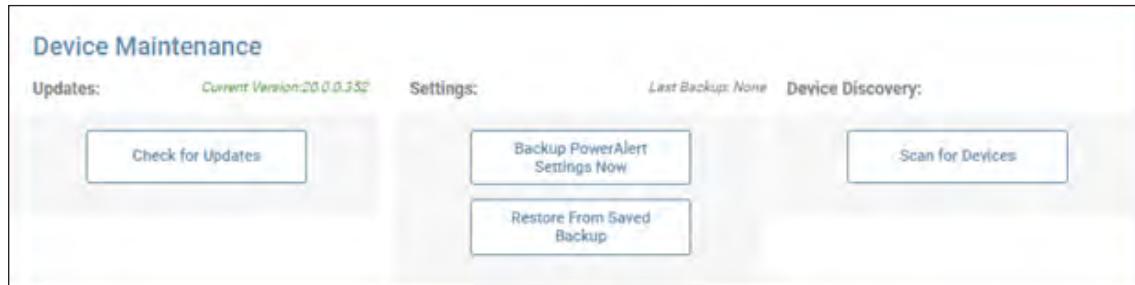


Figure 2-34: Maintenance

Click the **Check for Updates** button to confirm availability of a PowerAlert Medical update at the Tripp Lite website (Figure 2-35).

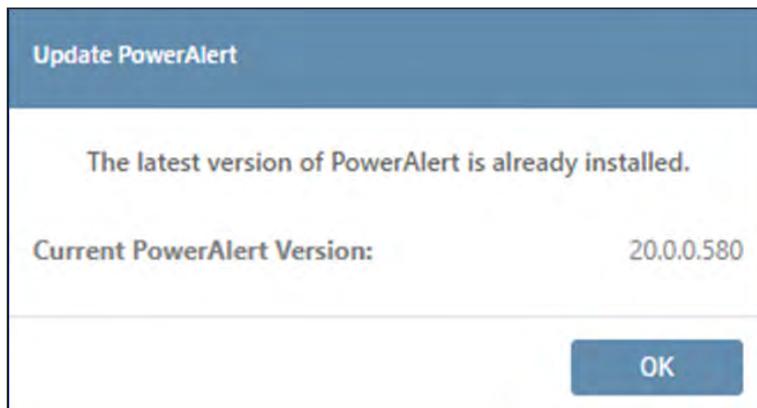


Figure 2-35: Check for Updates

Click the **Backup PowerAlert Settings Now** button, followed by the **Continue Backup** button to store the configuration on (Figure 2-36). On completing the backup, click the **Download** button to optionally save the configuration to the local environment (Figure 2-36).

The download file name will be in the format “card (x).bck”, which is used by other downloads. Consider renaming the file to distinguish it from similar files, e.g. “PowerAlert_backup_07_31_2021.bck”.

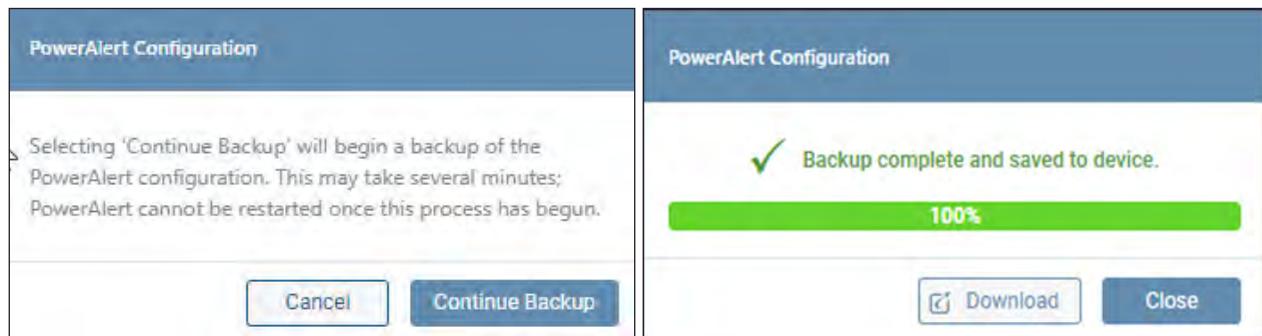


Figure 2-36: Performing a PowerAlert Configuration Backup

2. PowerAlert Medical

Click the **Restore from Saved Backup** button to upload a configuration file (Figure 2-37). If a previous Backup does not exist, the configuration source must be selected using the **Browse** button. Upon selecting the file, click **Upload**, then **Continue**. If a Backup on the device exists, the configuration source can be either System Backup (stored on the device) or External Backup (**Browse** to select).

Notes:

- If two devices are connected to one instance of PowerAlert, the restore function will apply the same settings to both devices. If this is not desired, the backup and restore functions should be performed with only one device connected at a time.
- If performing a restore function after completing a new installation (e.g. upgrade) of PowerAlert, the device name will not be retained. To ensure retention of the device name, perform a backup after installation.

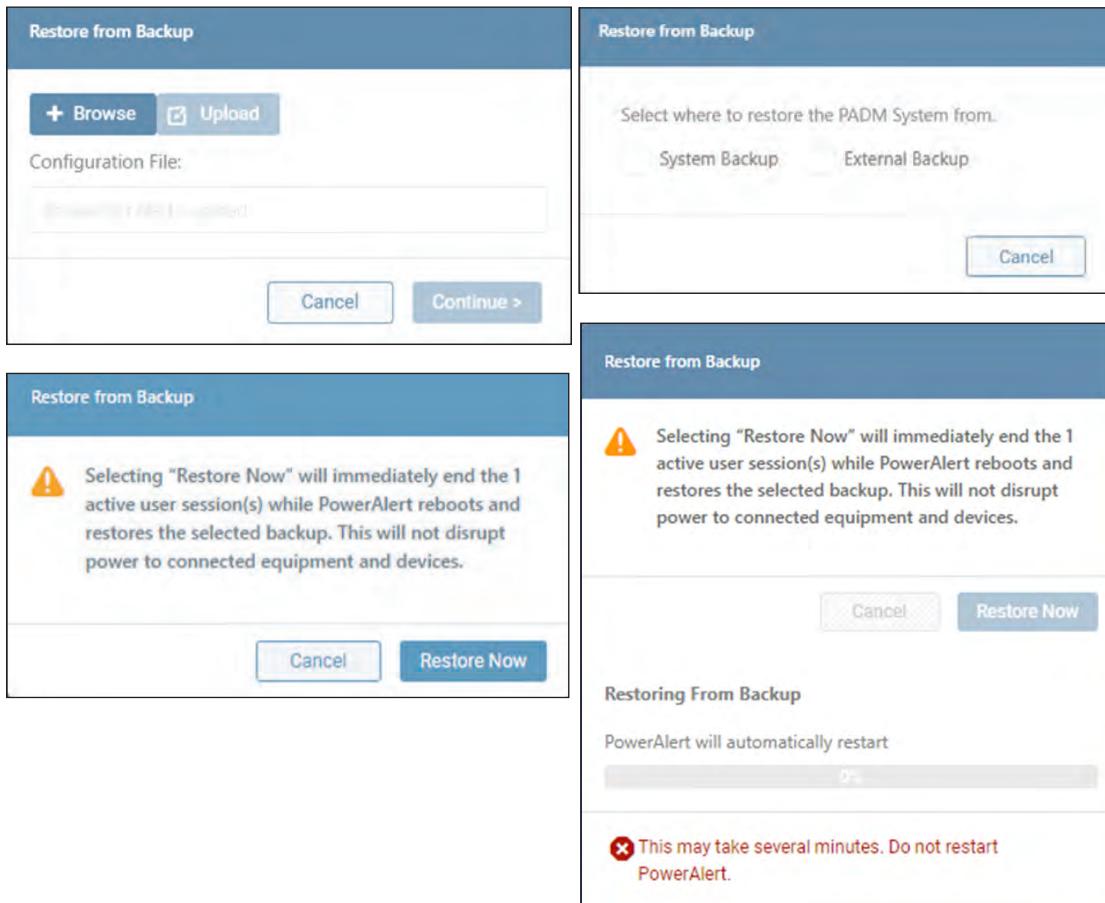


Figure 2-37: Restoring from Backup

Scan for Devices - This item scans the host computer's ports for connection to Tripp Lite devices. In certain cases, PowerAlert may fail to establish or maintain contact with a device; for example, if the USB connection to the computer is removed then re-inserted. Click the **Scan for Devices** button, followed by the **Scan Now** button to execute the scan (Figure 2-38).

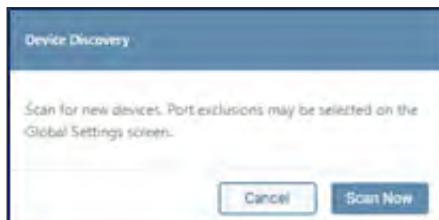


Figure 2-38: Scan for Devices

2. PowerAlert Medical

Reboot OS

This item performs a reboot of the host computer's Operating System. Press the **Reboot Now** button to execute the action (Figure 2-39).

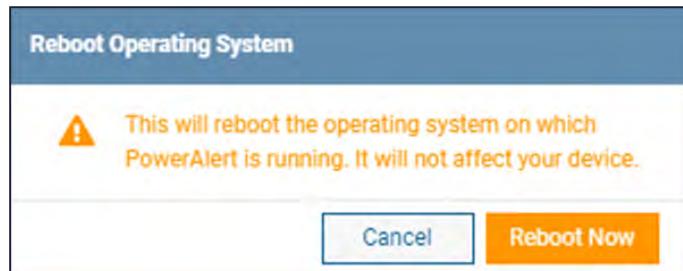


Figure 2-39: Reboot Operating System

Shutdown OS

This item performs a reboot of the host computer's Operating System. Press the **Shutdown Now** button to execute the action (Figure 2-40).

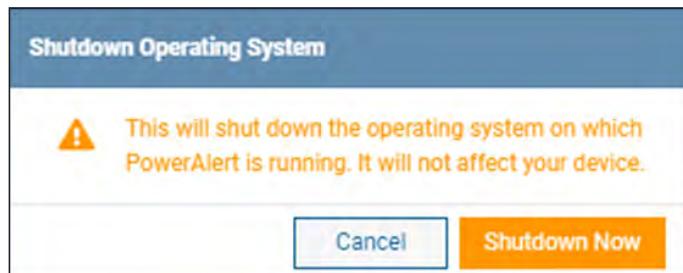


Figure 2-40: Shutdown Operating System

Restart Device – Click the “Shutdown Operating System” checkbox in order to gracefully shut down the OS prior to shutting down the device. Optionally, specify a Shutdown OS Delay Time. On clicking the **Restart** button, the OS Delay will begin counting down. On completion of the OS Shutdown, the device Shutdown Delay will begin counting down, after which the device will restart (Figure 2-41).

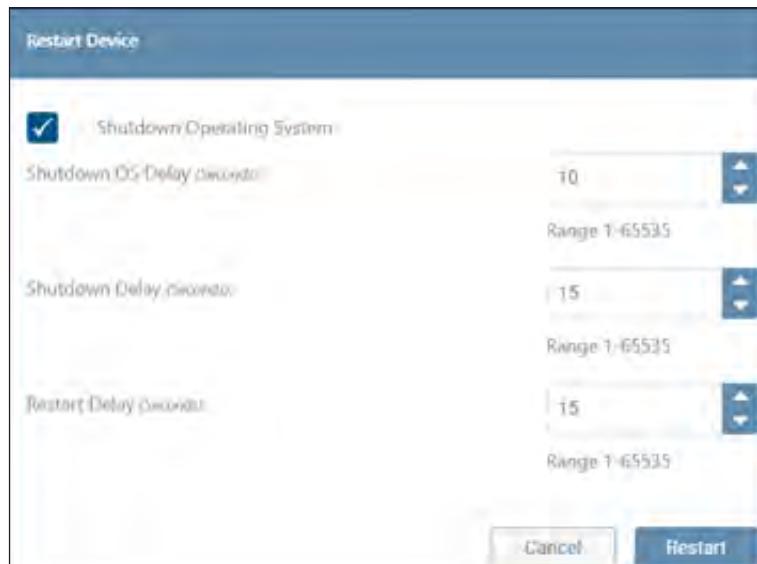


Figure 2-41: Restart device

2. PowerAlert Medical

Turn Off Device – Click the “Shutdown Operating System” checkbox in order to gracefully shut down the OS prior to shutting down the device. Optionally, specify a Shutdown OS Delay Time. On clicking the **Turn Off** button, the OS Delay will begin counting down. On completion of the OS Shutdown, the device Turn Off Delay will begin counting down (Figure 2-42) after which the device will be turned off.

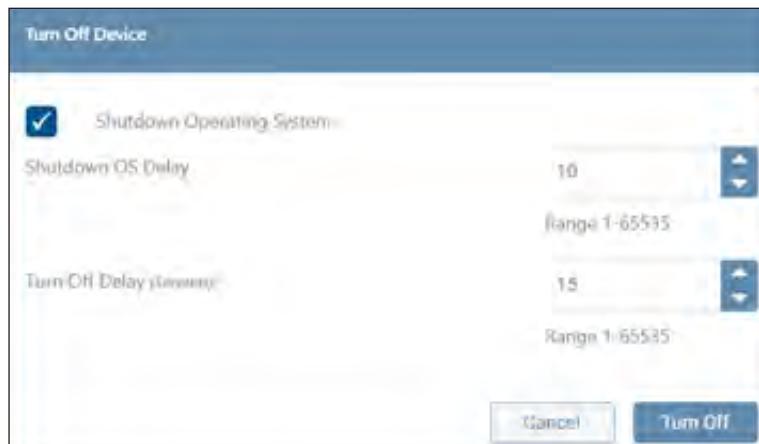


Figure 2-42: Turn Off Device

Turn On Device – This item turns on the device after the specified delay (Figure 2-43).

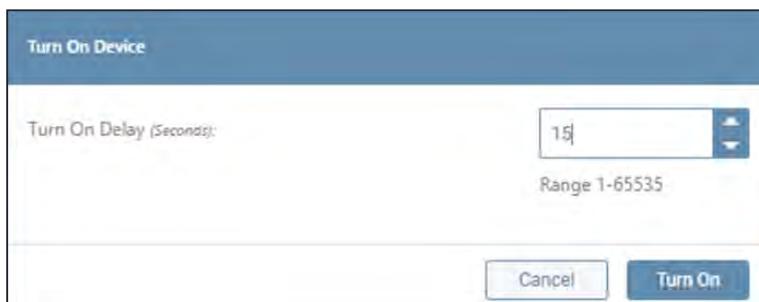


Figure 2-43: Turn On device

2. PowerAlert Medical

Support

Click the Question icon to display a sub-menu of Support items (Figure 2-44). Click **Help/Contact** to display links for online support and customer support. In the upper right corner, click the **Generate Support Report** button to compile a report that can be shared with Tripp Lite Customer Support for troubleshooting; click the **Continue** button to generate the report. Upon successful completion, a banner will appear; click the **Save Report** button to save the report to the computer's Downloads folder. The download file name will be in the format "card (x).bck", which is used by other downloads. Consider renaming the file to distinguish it from similar files, e.g. "SupportReport001.bck".

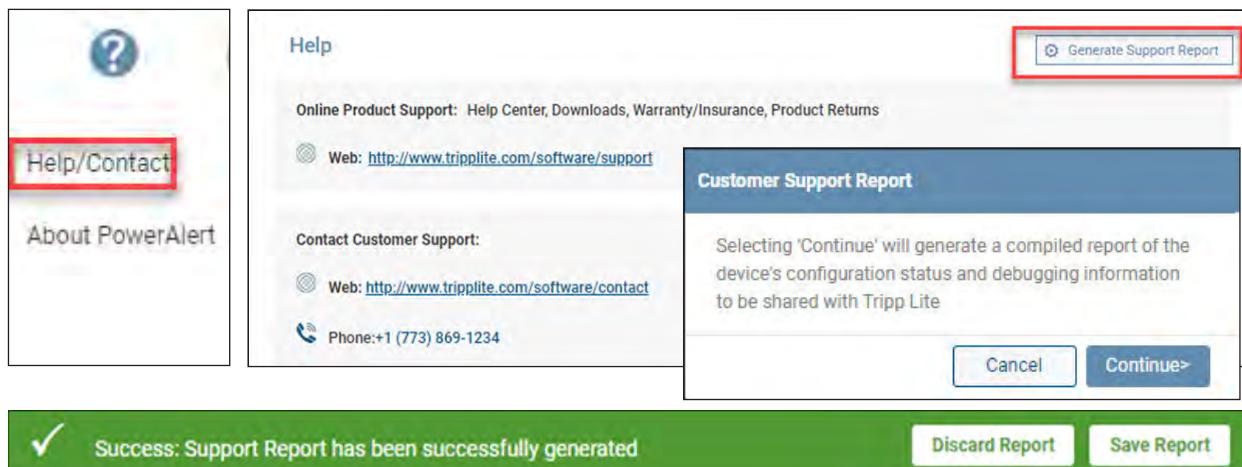


Figure 2-44: Help/Contact

Click **About PowerAlert** to display information related to the PowerAlert software (Figure 2-45).



Figure 2-45: About PowerAlert

2. PowerAlert Medical

User

Click the Person icon to display a sub-menu of options related to the login. Click **Change Password** to change the existing password of the logged-in user. Click the ‘eye’ icon to view the plain text password entered. Click **Log Out** to terminate the current session (Figure 2-46).

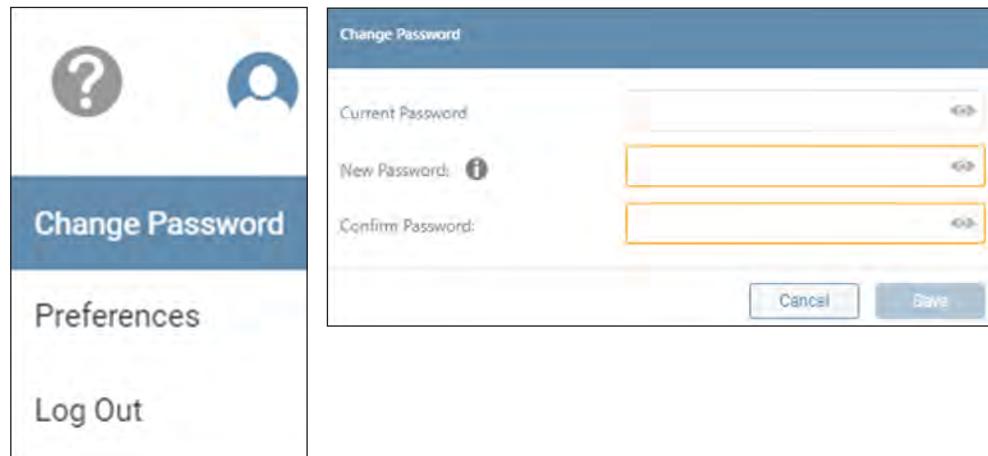


Figure 2-46: User Menu, Change Password and Logout

Click **Preferences** to override the global settings for Time Zone (Figure 2-47).

Click **Reset all Preferences to Default** to restore the settings set using the Global Settings. Once all settings have been made, click the **Save** button.

Note: Policies related to password length and character use are set in Main Menu > Security.

A white rectangular dialog box titled 'User Preferences'. It contains a section for 'Override Global Time Zone' with a note '(Current Time: 1:50:42 PM)' and a dropdown menu showing 'PowerAlert Default (America/Chicago)'. At the bottom are 'Reset all Preferences to Default' (with a circular arrow icon) and 'Save' buttons.

Figure 2-47: User Preferences

3. Main Menu

The Main Menu enables navigation to the configuration, monitoring and control functions of the device. Each of the Main Menu items (Figure 3-1) is described in the following sections.

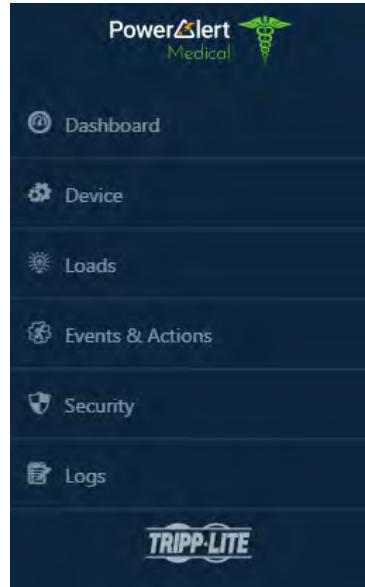


Figure 3-1: Main Menu

3.1 Dashboard

The Dashboard menu item displays a graphical summary of the device's operational status in the form of Gauges and Graphs (Figure 3-2).

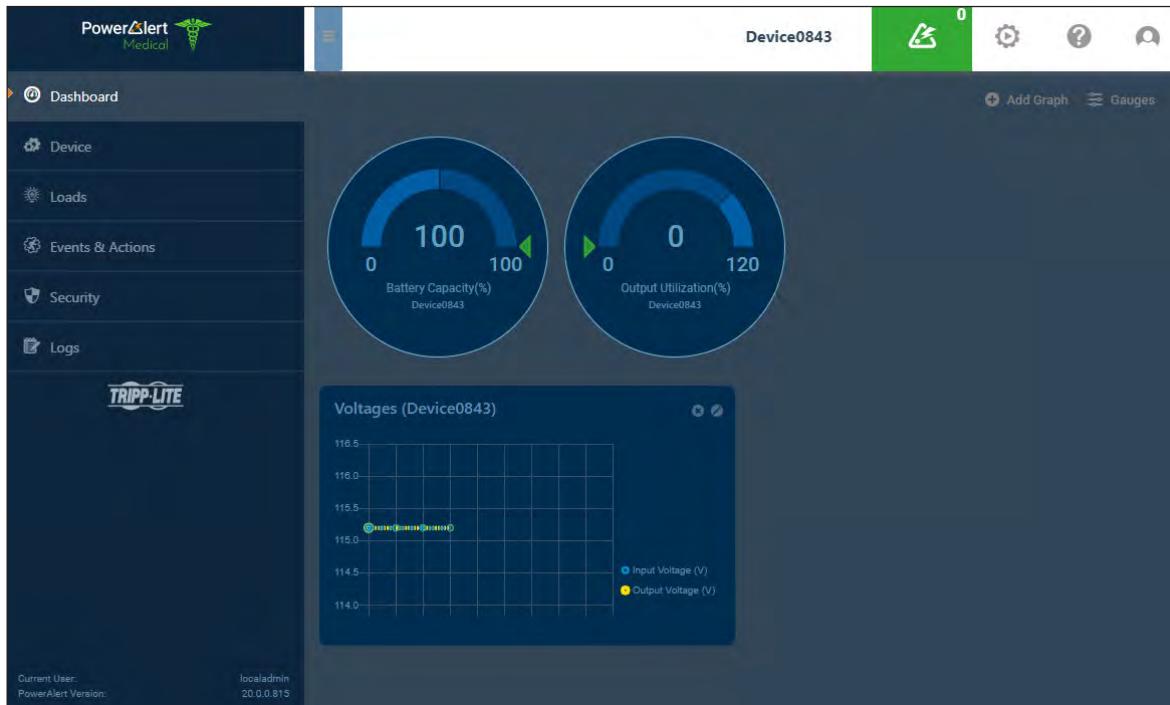


Figure 3-2. Dashboard Gauges and Graphs

3. Main Menu

Gauges

To select which gauges to display on the Dashboard, click **Gauges** in the upper right corner, make the desired selections, then click **Apply Gauges** (Figure 3-3). To clear all selections, click **Clear Gauges**. Certain gauges are interactive – if the cursor changes when moving over the gauge, click it to open a window in which its parameters can be edited. Note that these adjustments can also be made in the Device > Device Details menu item.

In the event that the threshold supports both “Warning” and “Critical” level bounds, ensure that the “Warning” values are within the range/do not equal to or exceed the limits set by the “Critical” values.

The screenshot shows two windows related to gauge configuration:

- Gauge Selection Window:** A modal dialog titled "Device0209" with three checkboxes:
 - "Runtime Remaining (Minutes)" (unchecked)
 - "Battery Voltage (V)" (unchecked)
 - "Battery Age (Years)" (unchecked)
 - "Battery Capacity (%)" (checked)Buttons include "Apply Gauges", "Clear Gauges", and "Close".
- Thresholds and Bounds Window:** A table titled "Thresholds and Bounds" with columns "Name", "Min()", "Value()", and "Max()".

Name	Min()	Value()	Max()
Low Critical	0	5	44
High Critical	6	45	100
Alert Tolerance (margin before retriggering an event)		0	

Buttons at the bottom include "Cancel", "Apply Changes", and "Save & Close".

Figure 3-3: Gauges

3. Main Menu

Graphs

Click **Add Graph** in the upper right corner to select which graphs to display on the Dashboard (Figure 3-4). After entering a Name and selecting the desired Device, Category and variables, click **Save**. To edit the graph, click the pencil icon in the upper right corner of the graph. To remove the graph, click the **X** icon next to the pencil icon.

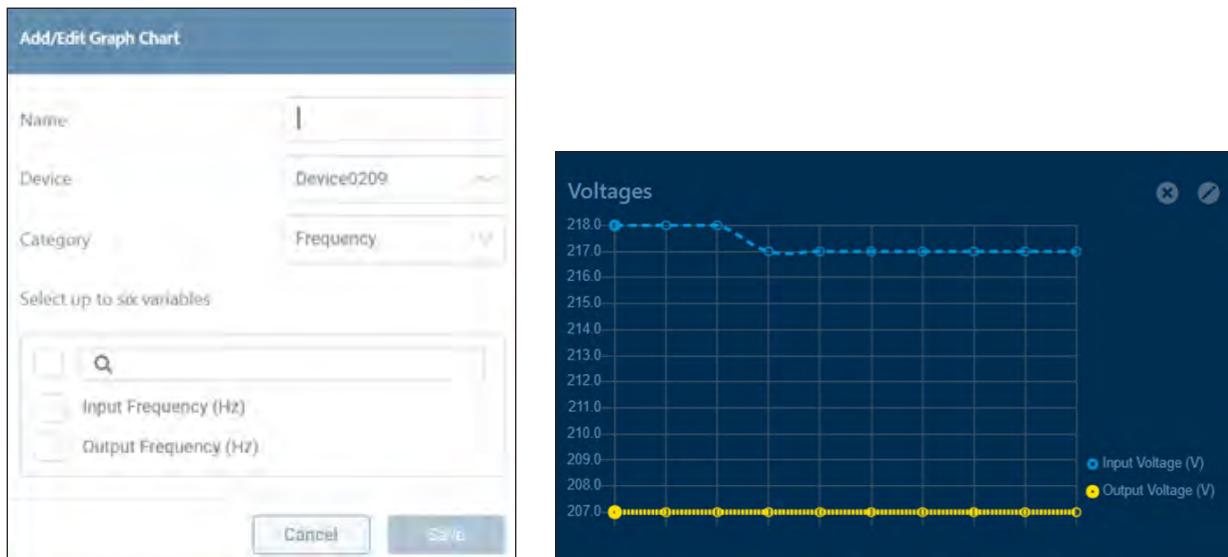


Figure 3-4: Graphs

3.2 Device

The Device menu item is comprised of two tabs: Device Details and Device Properties (Figure 3-5).

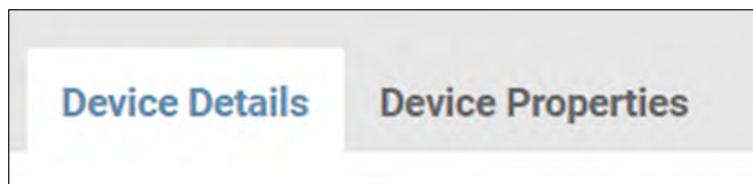


Figure 3-5: Device Details and Device Properties

3. Main Menu

Device Details

This tab displays the metrics of the device and all connected peripherals (Figure 3-6). Use the **Group** and **Filter** functions to customize the displayed information. Icons to the right of an item indicate whether edits or controls can be performed.

The screenshot shows the 'Device Details' tab selected. On the left, there's a sidebar with a 'Group' dropdown menu containing 'All', 'Alert Status', 'Device', and 'Type'. Below this are three chevron icons: 'Battery Capacity (%)', 'Battery Charging', and 'Battery Configuration De...'. To the right is a table with columns 'Device', 'Type', and 'Value'. It contains four rows: Device0209 (Battery, 0.0), Device0209 (Battery, 100), Device0209 (Battery, No), and Device0209 (Battery, ...). A 'Filter' button is located at the top right of the table area.

Figure 3-6: Device Details

Note that certain metrics – denoted with a chevron – need to be expanded in order to display their editable / actionable content. For example, in Figure 3-7, expanding “Battery Charge Remaining” reveals that Thresholds and Bounds can be edited. Click the pencil icon to open a window in which these edits can be made. In the event the threshold supports both “Warning” and “Critical” level bounds, ensure the “Warning” values are within the range / not equal to or exceeding the limits set by the “Critical” values.

In general, when a parameter Threshold is crossed, an Alert will be generated. The Tolerance sets the amount that the parameter must ‘return’ for the Alert to clear. Example: the Low Warning threshold is set to 50% and the Alert Tolerance is set to 2%. If the Battery Charge falls below 50%, an Alert will be generated. The Alert will clear when the Battery charge rises above 52%.

The screenshot shows the 'Device Details' tab with the 'Battery Capacity (%)' metric expanded. It displays 'Thresholds and Bounds' for 'Low Critical' (set to 25) and 'Low Warning' (set to 50). Below this is a detailed edit dialog titled 'Thresholds and Bounds' with a table:

Name	Min (%)	Value (%)	Max (%)
Battery Charge Remaining Low Critical Threshold	0.00	25	49.00
Battery Charge Remaining Low Warning Threshold	26.00	50	100.00
Alert Tolerance (margin before retriggering an event)		0	

A note at the bottom states: **Incorrectly adjusting these settings may harm the device*. At the bottom right are 'Cancel' and 'Save' buttons.

Figure 3-7: Expanding Device Details and Editing Thresholds

3. Main Menu

Device Properties

This tab displays information related to the identity of the device and all connected peripherals (Figure 3-8). Certain parameters, such as “Device Name”, “Location” and “Installation Date” are editable; click the pencil icon to enter or modify these parameters.

The screenshot shows two views of a device management interface. The top view is a list of device properties for 'Device0209'. The bottom view is a modal dialog titled 'Set Device Property' for editing the same device's details.

Device Details View:

Property	Value
Manufacturer	TRIPP LITE
Model	SMART1500RM2U
Serial #	2911EY0SM820600209
Install Date	7/8/2021
Location	(empty)
Region	(empty)
Protocol	3015

Set Device Property Modal:

Property	Value
Name	Device0209
Install Date	7/8/2021
Location	(empty)
Region	(empty)
Manufacturer	TRIPP LITE
Device ID	34567
Asset Tag	(empty)

Buttons at the bottom of the modal: 'Cancel' and 'Save'.

Figure 3-8: Displaying and Editing Device Properties

3. Main Menu

3.3 Loads

The Loads Overview tab displays a summary of the device's loads, including status and outlet-level metrics, if applicable (Figure 3-9). Move the sliders to change the state of the Main Load or individual Loads (if supported by the device). Use the **Columns** and **Filter** functions to customize the displayed information. To edit Load details and view additional outlet-level information, click the pencil icon to the left of the item. Click the **Save** button once all edits have been made.

The figure consists of two screenshots. The top screenshot shows the 'Loads Overview' tab with a table of two loads. The bottom screenshot shows the 'Load #1 Details' dialog box for editing load details.

Loads Overview:

Load #	Name	Description
1	Load 1	
2	Load 2	

Load #1 Details:

Name:	Load 1
Group:	
Description:	
Circuit #:	1
Receptacle Type:	Configurable
Phase:	3
Wye:	No

Buttons at the bottom: Cancel, Save

Figure 3-9: Loads Overview Tab and Editing Load Details

3. Main Menu

3.4 Events & Actions

Shutdown on Battery

This sub-menu item allows for configuration of UPS System shutdown actions when the system goes on battery (Figure 3-10). Select one option, adjust the configuration parameter (if applicable), then click **Save**.

Shutdown On Battery

Select the desired shutdown behavior of the system when it is on battery.

Don't shut down the system.

Shut the system down when the amount of battery power remaining falls below the following percentage:

Shut the system down when the amount of battery runtime remaining falls below the time specified. (minutes)

Shut the system down when the device's "low battery" alarm is received.

Save

Figure 3-10: Shutdown on Battery

3. Main Menu

3.5 Security

The Security menu item allows for configuration of User Accounts and Security Settings.

Note: This menu item is visible only to those with Administrator privileges.

3.5.1 User Accounts

The sub-menu tab displays a list of all individuals with login access to the system, as well as their status and related parameters (Figure 3-11). Two preconfigured Local Users are provided by default: *localadmin*, *localguest*. Click the pencil icon to the right of an entry to open a dialog box in which its settings can be adjusted. To delete one or more Local Users, click the  icon to the left of each line item. Upon doing so, the **Delete User(s)** button becomes active (turns red); click the button to complete the deletion.

Note: the default *localadmin* user cannot be deleted.

Local Users					
	Status	Username	Full Name	Role	Description
	Enabled	localadmin		Administrator	
	Enabled	localguest		Guest	

Figure 3-11: Local Users

To create a new Local User, click **Add User**. In the User tab of the dialog box that opens, enter the required information; boxes outlined in color indicate required fields (Figure 3-12). Note that the Username must be at least 6 characters long. Minimum password length is set in the **Security Settings** sub-menu.

Next, click the Session tab to optionally adjust the following settings:

- Override Global Session Timeout – the amount of time, in minutes, that the session can be active before it is automatically terminated. The default value is 360 minutes.
- Override Global Idle Timeout – the amount of time, in minutes, that the session can be idle (inactive) before it is automatically terminated. The default value is 60 minutes.

To change either setting, move the slider to the right position and adjust the time using the up and down arrows. The range of viable values is 1 to 999 minutes.

3. Main Menu

The credentials for Local Users are as follows

User	Default Password
------	------------------

localadmin	localadmin
localguest	localguest

Local User

Enabled

User Session

Username: Technician1

Full Name: Joe Tech

Role: Monitor

Description:

Contact Info:

Password: *****

Confirm Password: *****

Cancel Save

Local User

Enabled

User Session IP Filter

Override Global Session Timeout: 360 Minute(s)

Override Global Idle Timeout: 60 Minute(s)

Cancel Save

Figure 3-12: Adding a Local User

3. Main Menu

3.5.2 Security Settings

This sub-menu allows for configuration of Global Security Settings (Figure 3-13).

- Global Session Timeout – the amount of time, in minutes, that sessions can be active, after which they are automatically terminated. The default value is 360 minutes.
- Global Idle Timeout – the amount of time, in minutes, that sessions can be idle (inactive) after which they are automatically terminated. The default value is 60 minutes.

Use the up and down arrows to adjust the settings. The range of viable values is 1 to 999 minutes.

The screenshot shows a 'Security Settings' interface. A section titled 'Session & Idle Timeouts' is expanded. It contains two input fields: 'Global Session Timeout (Minutes)' set to 360 with up and down arrow buttons, and 'Global Idle Timeout (Minutes)' set to 60 with up and down arrow buttons. A blue 'Save' button is located at the bottom right.

Figure 3-13: Setting Timeouts and Password Requirements

3.6 Logs

The Logs menu item allows for configuration, viewing and export of the Event, Data and Accounting Logs, as well as configuration of the Application Log (Figure 3-14).

Note: All logs are exported as .gz files. To view the log information, the .gz file must first be decompressed using a program like 7zip or WinRAR® (Windows) or gzip (Linux/macOS).

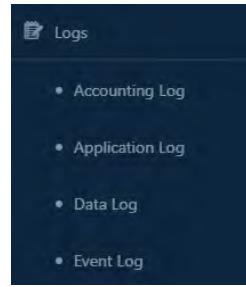


Figure 3-14: Logs Menu Item

3. Main Menu

3.6.1 Accounting Log

The Accounting Log documents events related to access of the PowerAlert interface, displaying the most recent events at the top of the log (Figure 3-15). Click **Filter** to customize the information displayed in the log. To perform an on-demand log export, click the **Export** button; a window will appear in which the file format (CSV or XML) can be selected. Select the **Download** option to locally export the log.

The screenshot shows two windows. The top window is titled 'Accounting Log' and displays a table of log entries. The columns are Date/Time, User, Origin, Category, and Description. The entries are:

Date/Time	User	Origin	Category	Description
10/28/2021 9:26:56 AM	localadmin	localhost	Device Operation	Device: 2, Resource: controls_turnon_device
10/28/2021 9:26:14 AM	localadmin	localhost	Preferences	Operation: update, Resource: preferences_user, Name: localadmin, Attributes: ui_settings
10/28/2021 9:26:13 AM	localadmin	localhost	Device Properties	Operation: delete, Resource: devices, ID: 1
10/28/2021 9:23:44 AM	localadmin	localhost	Preferences	Operation: update, Resource: preferences_user, Name: localadmin, Attributes: ui_settings
10/28/2021 9:16:17 AM	localadmin	localhost	Preferences	Operation: update, Resource: preferences_user, Name: localadmin, Attributes: ui_settings

The bottom window is titled 'Export Logs' and shows 'Export Format' options for CSV (selected) and XML. It has 'Cancel' and 'Continue' buttons.

Figure 3-15: Accounting Log Summary and Export

3.6.2 Application Log

The Application Log is not locally displayed. To view it, click the **Export Application Log Now** button. This will generate an applog.txt file that can be retrieved from the Downloads folder. Use a standard text editor application to view the exported file (Figure 3-16).

The screenshot shows a form titled 'Application Log'. It includes a 'Minimum Severity Setting' dropdown set to 'Error' (with a dropdown arrow icon), an 'Export Application Log Now' button, and a 'Save' button.

Figure 3-16: Application Log

3. Main Menu

To set the minimum severity level at which items are to be recorded, click the Minimum Severity Setting menu and select the desired level. For instance, a setting of ‘Critical’ will also record the Alert and Emergency items (Figure 3-17).

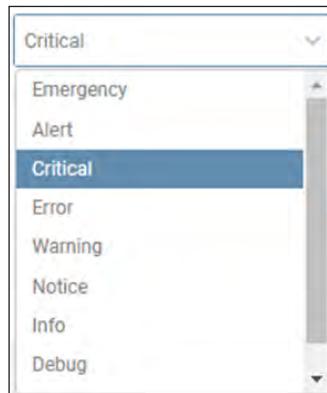


Figure 3-17: Minimum Severity Setting

3.6.3 Data Log

The Data Log provides two views: Time-Series and Historical Roll-Up. The Time Series view displays the device’s metrics taken at 1-minute increments (default setting), with the most recent readings appearing at the top of the log (Figure 3-18).

Device...										
Date/Time	Battery			Input				Output		
	Runtime Remaining (Min)	Battery Voltage	Battery Capacity	Input Frequency	Input Voltage	Output Frequency	Output Current	Output Power	Output Utilization	
1/12/2022 1:03:00 PM	30	13.8	100	60.2	115.2	60.2	0.00	0		
1/12/2022 1:02:00 PM	30	13.8	100	60.2	115.2	60.2	0.00	0		
1/12/2022 1:01:00 PM	30	13.8	100	60.2	115.2	60.2	0.00	0		
1/12/2022 1:00:00 PM	30	13.8	100	60.2	115.2	60.2	0.00	0		
1/12/2022 12:59:00 PM	30	13.8	100	60.1	115.2	60.2	0.00	0		

Figure 3-18: Data Log, Time Series View.

3. Main Menu

Click the **View** button to select which data variable are to be displayed (Figure 3-19). Click **Filter** to refine the time period of data log entries to be displayed; click the calendar icon to establish the start and end time/date. To perform an on-demand log export, click the **Export** button, followed by the **Download File** button.

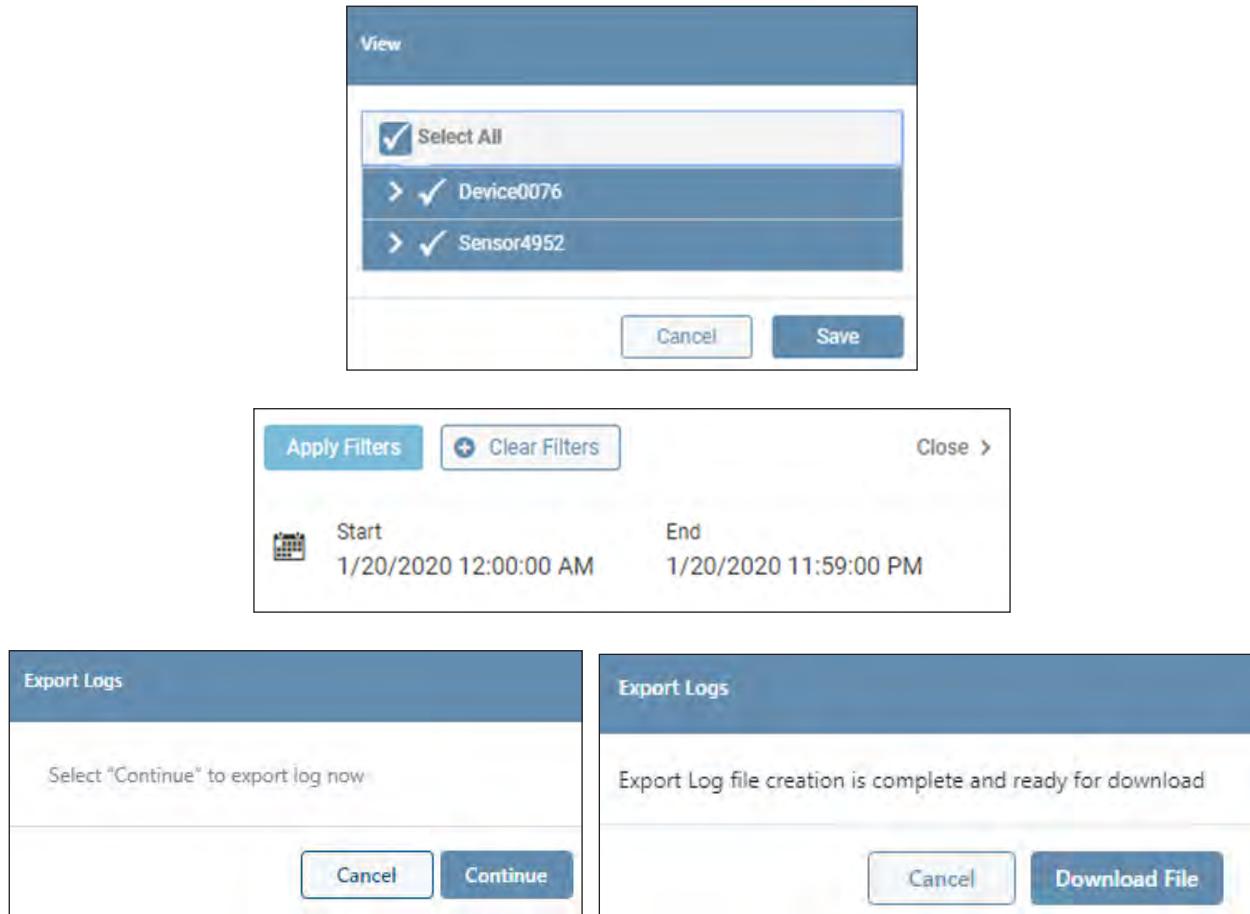


Figure 3-19: Changing the Viewed Data, Applying Filters and On-Demand Log Export

3. Main Menu

The Historical Roll-Up view displays a summary view of the device's metrics at the following increments: hourly, daily, weekly, monthly and yearly (Figure 3-20).

Historical Roll-up View													
Device Name	Summary Metrics												
	Input Frequency 2			Input Frequency 3			Input Frequency 1			Input Voltage L1-L2			
	Low	High	Average	Low	High	Average	Low	High	Average	Low	High	Average	V
hourly	59.9	60.0	59.9	59.9	60.0	60.0	59.9	60.0	59.9	213.8	215.8	214.6	214.6
daily	59.9	60.0	59.9	59.9	60.0	59.9	59.9	60.0	59.9	212.7	221.5	216.4	216.4
weekly	59.9	60.0	59.9	59.9	60.0	59.9	59.9	60.0	59.9	212.8	222.4	217.9	217.9
monthly													
yearly													

Figure 3-20: Data Log, Roll-up View

To configure log recording parameters and automatic log exporting, click the Log Settings tab. Set the frequency at which data is collected by adjusting the interval; the supported range is 10 to 60 seconds, in increments of 10 seconds. A message will appear showing the estimated amount of data (in days) that will be recorded, based on the selected interval (Figure 3-21).



Figure 3-21: Data Log Settings Message

3. Main Menu

By default, all metrics of the device and all connected sensors are selected. Click the pencil icon and use the pulldown menus to select which variables are to be logged (Figure 3-22).

Note: Changing the logging interval will purge the Data Log prior to logging records at the new interval. If desired, export the Data Log prior to applying the interval change.

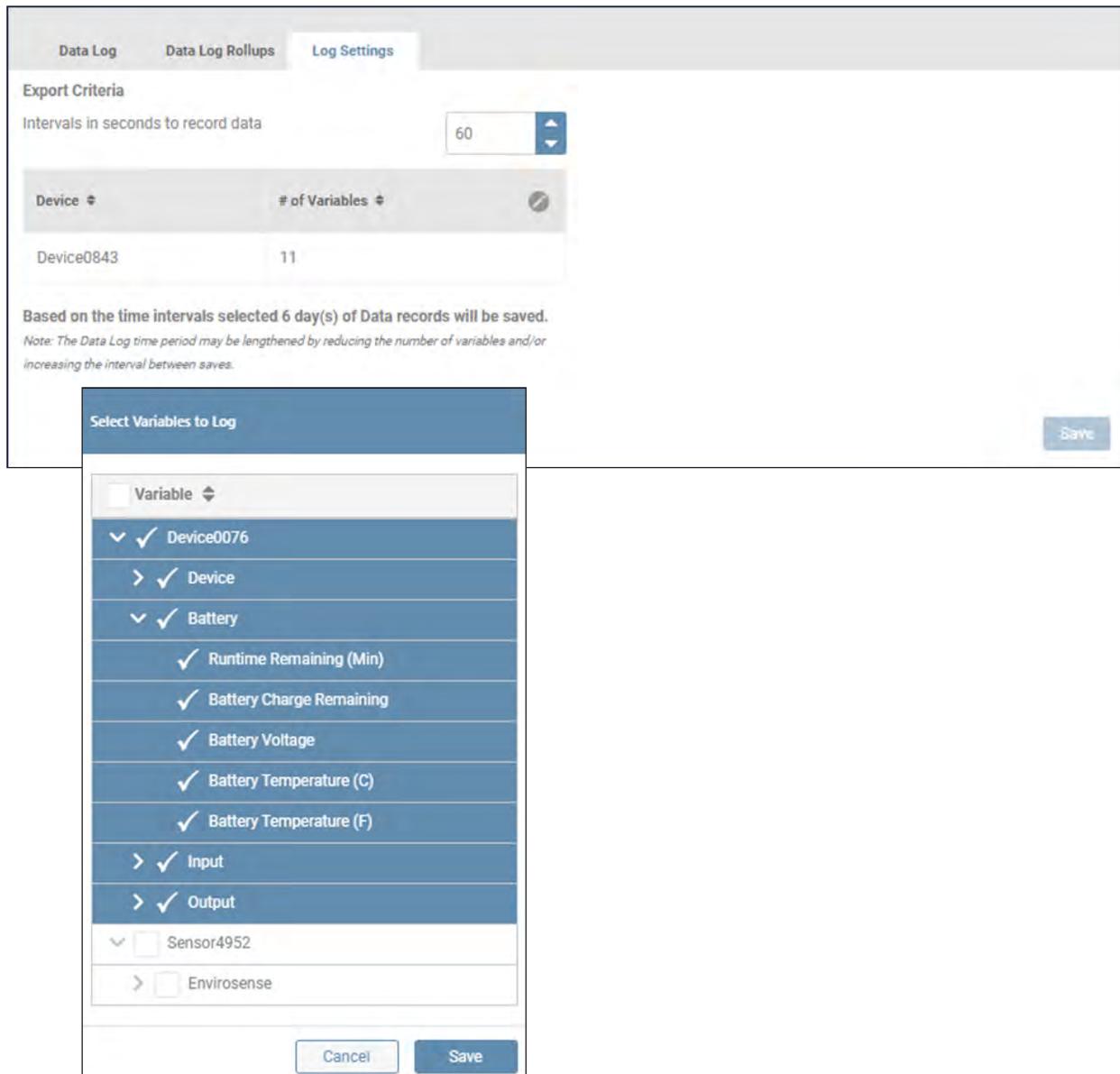


Figure 3-22: Data Log Settings

3. Main Menu

3.6.4 Event Log

The Event Log tracks device and system-related events, displaying the most recent events at the top of the log (Figure 3-23). Click **Filter** to customize the information displayed in the log. To perform an on-demand log export, click the **Export** button; a window will appear in which file format (CSV or XML) can be selected for download. To purge the log after exporting, check the appropriate box.

Event Log			
Log Settings			
		Refresh	Export
Severity		Date/Time	Source
Informational	10/15/2021 3:53:29 PM	Device2251	Communications Lost
Informational	10/15/2021 10:17:42 AM	Device2251	Battery Minutes Remaining Above Warning Level
Warning	10/15/2021 10:17:38 AM	Device2251	Battery Minutes Remaining Below Warning Level
Warning	10/13/2021 4:19:09 PM	Device0843	Device Deactivated
Informational	10/13/2021 4:19:07 PM	Device0843	Communications Lost

Figure 3-23: Event Log

To configure log recording parameters, click the **Log Settings** tab (Figure 3-24). The maximum number of log entries is 10,000; this is also the default value. The minimum log size is 1,000 entries. Upon reaching the maximum log size, entries will be purged in a first-in-first-out manner. Click the **Save** button once all edits have been made.

Event Log	
Log Settings	
Maximum number of stored log entries:	10000
<small>Minimum 1,000 to Maximum 10,000 entries</small>	<input type="button" value="Save"/>

Figure 3-24: Event Log Settings

4. Technical Support

For questions or information related to PowerAlert software, please contact Tripp Lite Tech Support:

Phone: 773.869.1234 (7am – 6pm CST).

Web: tripplite.com/support

Note: Online Product Support and Tripp Lite Technical Support contact information are also available via the Help icon in the PowerAlert Top Menu.

Appendix A – Features by Package

PowerAlert Software		PowerAlert Package		
Category	Feature	Office	Home	Medical
ACTIONS	Device Shutdown	Yes	Yes	Yes
	OS Shutdown & Restart	Yes	Yes	Yes
	Script Execution	Yes		
	Manage Scheduled Actions	Yes		
	Manage AutoProbes	Yes		
ALERTS	Alert Rollup	Yes	Yes	Yes
	Alert Acknowledgment	Yes		
CONFIGURATION	Remote Configuration	Yes	Yes	Yes
	Mass Configuration Utility	Yes	Yes	Yes
	Manage Battery Packs	Yes		
EVENTS	Display Events	Yes		
	Edit Events	Yes		
	Event Actions	Yes		
LOADS	Display Individual Loads	Yes	Yes	Yes
	Edit Load Attributes	Yes		Yes
	Display Status	Yes	Yes	Yes
	Display Metrics	Yes		Yes
	Load Control	Yes	Yes	
	Manage Load Groups	Yes		
LOGGING	Accounting Log	Yes		Yes
	Application Log	Yes	Yes	Yes
	Data Log	Yes		Yes
	Event Log	Yes	Yes	Yes
	Manage Syslog Servers	Yes		
MAINTENANCE	Version Check	Yes	Yes	Yes
	Update and Downgrade	Yes	Yes	Yes
NOTIFICATIONS	Email	Yes		
	SMS	Yes		
	SNMP	Yes		
PROTOCOLS	HTTP & HTTPS	Yes	Yes	Yes
	SNMP	Yes		
SECURITY	Authorization, Accounting & Authentication	Yes		
	Password Policies	Yes		
	Manage Users	Yes		Yes
	Manage Roles & Privileges	Yes		
	ManageUser Sessions	Yes		
	Idle & Session Timeouts	Yes	Yes	Yes
OTHER	Watchdog Compatibility	Yes	Yes	Yes
	SNMP Binding Adapter	Yes		
	System Tray	Yes	Yes	Yes
	SNMP Access	Yes		

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