User's Guide

PowerAlert® Cart Manager

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1. Introduction

Tripp Lite PowerAlert Cart Manager is a software application that can be installed on a hospital cart "thin client," laptop or desktop computer. The software supports two modes of operation: User Mode and Administrative Settings Mode. In User Mode, battery conditions can be monitored conveniently via the computer's system tray. Intended for cart technicians and IT managers, Administrative Settings Mode provides detailed system status, history logs and allows various configuration and alarm customizations.

2. System Requirements

Tripp Lite PowerAlert Cart Manager is designed to work with the Tripp Lite Hospital Cart Power Modules, such as the HC150ATD and the HC150SL (with limited functionality). The following operating systems are supported:

- Windows 7
- Windows 8.1
- Windows 10
- Windows Server 2012

3. Installation and Configuration

The software can be downloaded from www.tripplite.com/support by searching for "PowerAlert Cart Manager". Run the PowerAlert Cart Manager Installer and follow on-screen prompts to install the software.

Two installation configurations are available: Default and Advanced (Figure 3.1). The Default configuration is recommended. The Advanced configuration (shown in Figure 3.2) should be used if settings need to be modified in order to avoid port conflicts with other installed applications. Advanced setup can also be used to disable the automatic archive of rotated logs when the logs reach maximum size.

Setup Type		
Choose the se	etup type that best suits your needs.	
Please select	a setup type.	
Default		
1	Default configurations will be used for PowerAlert Car	t Manager
O <u>A</u> dvance	d	
	Choose this if you would like to configure advanced Po Manager settings	werAlert Cart
tallshield		
realize licity		

Figure 3.1: Installation

PowerAlert Change de	Cart Manager Settings fault settings	
Driver port:	3664	
Internal Da port:	ta 13000	
User Interf port:	ace 800	
Use exte	rnal browser ogs upon rotation	
		Next

Figure 3.2: Advanced Setup

4. User Mode

With the software successfully installed, select "Launch PowerAlert Cart Manger" from Windows Explorer to start the software in User Mode (Figure 4.1).



Figure 4.1: Launching PowerAlert Cart Manager

A blue battery icon will appear in the system tray. When the system is in battery mode, runtime remaining and estimated battery termination time will appear when the mouse is hovered over the system tray icon, as in figure 4.2.1. When the system is in line mode and the battery is being charged, battery capacity will be displayed, as in figure 4.2.2.



Note: The system tray icon will display as an alarm when the battery reaches a low charge level, as in Figure 4.3. The icon will alternate between the alarm icon and the low battery icon, as in Figure 4.4.



Figure 4.3: Battery Alarm Icon

R 1	 ail 🌗	3:10 PM 1/23/2017

Figure 4.4: Low Battery Icon

4. User Mode

Large View of Battery Status in User Mode:

Left-click the blue battery icon in the system tray once to see the battery status displayed in a larger view. Runtime remaining in hours and minutes (hh:mm) will be displayed if the system is in battery mode (Figure 4.5), and battery capacity will be displayed if the system is in line mode (Figure 4.6). The large view will disappear after approximately 5 seconds; click the system tray icon again and it will reappear.



Figure 4.5: Runtime Remaining (hh:mm)



Figure 4.6: Battery Capacity While Charging

If a battery warning or an alarm event occurs, it will be reflected in red, as in Figure 4.7.



Figure 4.7: Battery Warning/Alarm Event

5. Administrative Settings Mode

To launch the software in Administrative Settings Mode, right click on the system tray battery icon, and select "Administrative Settings".



The login screen will appear with prompts for Username and Password. The default administrator username is localadmin and the default password is localadmin. To change the password, refer to Section 6.3.3 Security Screen. The Username and Password fields are case sensitive. After entering the login credentials click the "Login" button.

-

1/20/2013

Login ×	
← → C ③ 127.0.0.1:800/#/login	☆ :
TR TR	IPP-IITE
Pow	erAlert Cart Manager
localadn	sin
	1
	Login
	cogni

Figure 5.2: Login

5. Administrative Settings Mode

Upon logging in, PowerAlert Cart Manager will display the UPS system's data in the Overview screen (Figure 5.3).

The main sections and navigation elements of the PowerAlert Cart Manager user interface are described below and shown in Figure 5.3.

TRIPP·LITE			Overview	localadmin –
PowerAlert Cart Manager				
- Status				
Overview		Group	Value	
Battery Age (Years)		Battery	47.1	Í
Alarms Battery Charge		Battery	Charging	
Battery Charge Ren	naining (%)	Battery	99	
+ Control Battery Condition		Battery	Good	
+ Configuration Battery Cycle Coun	t	Battery	8	
Battery Full Charge	Capacity (mAh)	Battery	37976	
+ Logs Battery Fully Charg	ed	Battery	No	
About Battery Status		Battery	Normal	
Battery Temperatu	re (C)	Battery	22.0	
Active Alarms 🕈 0 ! 0 1 1 Battery Temperatu	re (F)	Battery	71.6	
Battery Voltage (V)		Battery	13.8	
A Charger Current (A)	Output	0.0	
Device Mode		Input	Utility	
Device Type		Device	On-Line	
Error Code		System	No error	
General Fault Alarn	n	System	Normal	
4				÷

Figure 5.3: Overview Screen

A Main Menu: Click the + next to a menu item to expand the menu group.

B Page Data: This area displays information related to the item selected in the Main Menu.

6.1 Status

The Status menu group contains two submenus: Overview and Alarms.

The Overview screen displays current status values of the connected device, as shown in Figure 5.3.

The Alarms screen shows all active alarms for the UPS, along with the severity, status (active or inactive), acknowledged status (yes or no), time stamp and description of each. An alarm that is inactive (the alarm condition has cleared) and acknowledged will be removed from the list. An alarm can be acknowledged automatically (the default setting) or manually. Figure 6.1 shows the Auto-Acknowledge slider button turned on. To manually acknowledge alarms, turn the slider button off; doing so will make the "Acknowledge" button appear at the top right of the Alarm table (Figure 6.2). Select the checkbox of each alarm to be acknowledged, then click the "Acknowledge" button.

TRIPPILITE					All	Alarms	localadmin
PowerAlert Dart Manager — Status			Auto-acknow	rledge			
Overview	State	Active	Acknowledged *	Date	÷	Details	Response
Alarms	i	Yes	.940	2017-06-27 11:24:29		Battery Age Aboye Threshold	Battery replacement is recommended:
+ Control	i	Yes	Yes.	2017-06-27 11:31:05		Communications Lost	
+ Configuration							
+ Logs							
About							
Active Alarms 🛛 🖸 a 🚦 a 🛔 a							

Figure 6.1: Auto-Acknowledge Set to "On"

TRIPPILITE				A	II Alarms	localadm	in -E
PowerAlert Cart Manager			Auto-acknow	vledge		O.	
- Status							o-Acknowledge
Overview	State	Active	Acknowledged ~	Date	Details	Response	-
Alartins	i	Yes	Vitt	2017/06-27 11:24:29	Battery Age Above Drosbold	Battery Juplacement it recomma	redied *
+ Control	i	Ver	yen.	2017-05-27 11:51:05	Communications) ost		
+ Configuration							
+ Logs							
About							
Active Alarms 40 10 12							
	-						

Figure 6.2: Auto-Acknowledge Set to "Off"

6.2 Control/Events

The Control menu group contains the Events submenu (Figure 6.3). The Events screen displays events supported by PowerAlert Cart Manager. Notifications for each event type can be enabled or disabled using the slider button in the Enabled column.

Use the dropdown menu in the Category column to set the severity level for each event. The choices are: Information, Warning and Critical. Click the "Save" button at any time to apply your changes.



Figure 6.3: Events Overview

- A Message Display: User feedback messages appear in this area.
- **B** Page Data: Page-specific information is displayed here.

6.3 Configuration

The Configuration menu group contains four submenus: Device Settings, Network, Security and Log Settings.

6.3.1 Device Settings

The Device Settings screen displays the current settings of the connected device. To change settings, select Device Properties (Figure 6.4) or Device Thresholds (Figure 6.5) from the Function dropdown menu and click on the field you want to change. Click the "Apply" button to apply the selected settings.

Note: Under Device Properties, Manufacturer, Protocol, Model, and DipSwitch-Battery are not configurable. If a lithium ion battery is used in the system, Battery Type is not configurable; its settings will be retrieved from the battery automatically. If a sealed lead acid battery is used, Battery Type is configurable. The default device name displayed contains the serial number of the power device.



Figure 6.4: Device Properties Screen

TRIPP·LITE		Device0004 D	evice	Settings	6		localadmin
PowerAlert Cart Manager + Status		Function:	Devic	e Thresho	olds	+	
+ Control							0
- Configuration	~ Name		×	Group	~	Value	
Device Settings	1 Battery Age	e Alarm Threshold (Months)		Battery		36	*
	1 Load Level	Threshold (%)		Output		90	
Network	1 Low Batter	y Warning Threshold (%)		Battery		10	
Security							
Log Settings							
+ Logs							
About							
Active Alarms							

Figure 6.5: Device Thresholds Screen

6.3.2 Network

PowerAlert Cart Manager uses HTTP port 800. The Network screen allows the port value to be changed, for instance, if there is a port conflict (Figure 6.6). Click the "Apply" button to save the new setting. A prompt will appear to confirm the change and to restart the Operating System (required).



Figure 6.6: Network Screen and Restart Prompt

6.3.3 Security

The Security page displays options to assign users and change passwords. All users can access the Passwords page. Only administrator-level users can access User settings. Click the "Apply" button to save changes.

TRIPP·LITE				Security			localadmin et	_	
PowerAlert Cart Manager		Settin	ngs:		User	-		User	+
+ Status		-		_				Cal Cal	
+ Control	Status	Name	* Password	Role	* Expiration	Idle Timeout	-	1	
- Configuration	× Choose	Imin	localadmin	Chomas	0	Ó			
Davice Carrings	× Active	localmanager	localmanager	administrator	0	0			
Device setongs	× Inactive	localguest	localguest	manager	0	0			
Network	× Inactive*			read-only	0	0			
and the second se	× Inactive*			read-only*	0	0			
Security	× Inactive*			read-only*	0	0			
Log Settings	× Inactive -			read-only*	0	0			
	× Inactive*			read-only*	0	0			
Logs	× Inactive*			read-only*	0	0			
About	× Inactive*			read-only*	0	0			
active Alarms 🔸 o ! o i 1									

Figure 6.7: Security Screen

TRIPPILITE	Security		localadmin -
PowerAlert Cart Manager	Settings:	Password *	Passwor
+ Status			(hours)
+ Control	Commit Pussword		
- Configuration	New palawant		
Device Settings	Cariforn new pasaward		
Network		0	
Security		Sive password.	
Log Settings			
+ Logs			
About			
Active Alarms 40 10 11			



6.3.4 Log Settings

The Log Settings screen (Figure 6.9) is used to configure the size of the supported log types: Accounting, Data and Events. A maximum of 1,024 lines will be stored in each of the logs before the log automatically rotates. The size of the log can be decreased by entering the desired value then clicking the Save button.

Accounting	Accounting Log Settings					
Log:	Accounting					
the Phy Wheel	1024					
Log Size (Lines):	1024	0				
		Save shanger				
	Accounting Log: Log Size (Lines):	Log Sizé (Lines):				



6.4 Logs

The Logs menu group includes the Accounting, Data and Events Logs. The logs are loaded on demand. To ensure the data you are viewing does not shift position as new information is added to the log, the log views do not refresh automatically. Each log can display up to a maximum of 1,024 entries before it automatically rotates.

Click the "Refresh" button to update the selected log. Click the "Rotate" button to rotate the log manually. Each log will be automatically saved to the log folder each time the log is rotated. The log files be can accessed in the PowerAlert Cart Manager's Program Files folder (Figure 6.10). The folder for each log type—Accounting, Data and Events—is created automatically. The log files can be opened and viewed using Excel. The archived files are retained for 30 days.



Figure 6.10: Log Menu Group

6.4.1 Events Log

The Events Log displays a historical record of events that have occurred in the system (refer to **Section 6.4 Logs** for details on creating the Events Log and exporting the data). The log can be filtered on the description field (Figure 6.11). It can also be filtered by device number to review historical data if the same computer has been used previously to manage other devices; however, only one device can be monitored at a time.

By default, Events are displayed in reverse chronological order. The log can be sorted by clicking on any of the column headers. The triangle to the right of the selected column header denotes ascending or descending order. Use the scroll bars to view the entire table.

Note: Changes to sorting and filtering will be lost if you leave the log and return.

TRIPPLITE	Events Log				localadmin -C		
PowerAlert Cart Manager						_	Refresh Events Lo
- Status						CB	Rotate Events Log
- Control	State	Device	~	Time Occurred *	~ Description		Notate Events Eog
- Configuration	All	* *					
- Logs	Into	Device0004		2017-01-20 11:40:06	Communications Lost	-	
Pinner	Warn Critical	Device0004		2017-01-20 11:39:48	Charger Bulk To Acceptance		
Events	Normal	Device0004		2017-01-20 11:39:33	Transfer To Line		
Data	1	Device0004		2017-01-20 11:39:24	Transfer To Battery		
Accounting							
About	-						
active Alarms 40 10 11	Selected Event Det	tajls:					
	Item			Value			

Figure 6.11: Events Log

6.4.2 Data Log

The Data Log (Figure 6.12) displays the historical value of data points in reverse chronological order of the date and time the event was recorded by the system (refer to **Section 6.4 Logs** for details on creating the Data Log and exporting the data). The log is configured such that a change greater than the (fixed) threshold value must be detected before the data point is logged. The log can be sorted by clicking on any of the column headers. The triangle to the right of the selected column header denotes ascending or descending order. Use the scroll bars to view the entire table.

Note: Changes to sorting and filtering will be lost if you leave the log and return.

TRIPPILITE		Data Log			localadmin	
PowerAlert Cart Managèr					_	Refresh Data
+ Status					~ -	
+ Control	Device	✓ Date/Time ▼	- Type	* Variable	Value	- Rotate Data I
+ Configuration						
- Logs	Device0004	2017-01-20 11:48:00	Variable	Unit Temperature (C)	39	
Diane	Device0004	2017-01-20 11:45:30	Variable	Unit Temperature (F)	99	
Events	Device0004	2017-01-20 11:40:17	Variable	Battery Charge Remaining	100	
Data	Deviće0004	2017-01-20 11:40:17	Variable	Battery Voltage	14.0	
Accounting	Device0004	2017-01-20 11:40:17	Variable	Battery Temperature (C)	22.0	
	Device0004	2017-01-20 11:40:17	Variable	Input Frequency	60.0	
About	Device0004	2017-01-20 11:40:17	Variable	Input Voltage	125.1	
	Device0004	2017-01-20 11:40:17	Variable	Output Current	0.00	
Active Alarms 70 011	Device0004	2017-01-20 11:40:17	Variable	Output Load	0	
	Device0004	2017-01-20 11:40:17	Variable	Charger Current	0.0	
	Device0004	2017-01-20 11:40:17	Variable	Unit Temperature (C)	34	
	Device0004	2017-01-20 11:40:17	Variable	Unit Temperature (F)	93	
	Device0004	2017-01-20 11:39:59	Variable	Charger Current	0.0	
	Device0004	2017-01-20 11:39:55	Variable	Charger Current	6.2	
	Device0004	2017-01-20 11:39:54	Variable	Charger Current	7.4	

Figure 6.12: Data Log

6.4.3 Accounting Log

The Accounting Log (Figure 6.13) tracks changes made to the system, the system status prior to the change, the date and time of the change and which user made the change (refer to **Section 6.4 Logs** for details on creating the Accounting Log and exporting the data). By default, the Accounting Log is displayed in reverse chronological order. The log can be sorted by clicking on any of the column headers. The triangle to the right of the selected column header denotes ascending or descending order. Use the scroll bars to view the entire table.



Note: Changes to sorting and filtering will be lost if you leave the log and return.

Figure 6.13: Accounting Log

6.5 About

The About screen (Figure 6.14) shows information about the PowerAlert Cart Manager software. The information on the About screen is read-only. **Note:** Figure 6.14 is an example of the About screen. Always check Tripp Lite's website for the latest version of PowerAlert Cart Manager at www. tripplite.com/support.



Figure 6.14: About PowerAlert Cart Manager Screen

7. Troubleshooting

If you encounter a problem:

- Check all connections and confirm they are secure
- Restart the system and see if the problem persists
- Check tripplite.com/support for updates to the software and ensure you are using the most current version that is compatible with your device
- If the problem persists after trying the steps above, contact Tripp Lite Technical Support

8. Technical Support

Before contacting Tripp Lite Technical Support, refer to **Section 7. Troubleshooting** for possible solutions. If you are still unable to resolve the problem, contact Tripp Lite Technical Support at:

www.tripplite.com/support Email: techsupport@tripplite.com

Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice.



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