

# **RPM-LCD**

**(Remote Power Manager)**

## **User's Manual**

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# 1. IMPORTANT SAFETY INSTRUCTIONS

This manual contains important instructions that should be followed during the installation and the operation of the Remote Power Manager (RPM).

## **SAVE THESE INSTRUCTIONS**

### **An Important Notice**

- To ensure safety a **Qualified Service Personnel** should perform the installation.
- Make sure that the AC Utility outlet is properly grounded.
- Do not open the unit there are no user serviceable parts inside. Servicing of RPM should be performed by Qualified Service Personnel Only.
- Please make sure that the input voltage of the RPM matches the supply voltage.
- Make sure the RPM is installed in the proper environment as specified.
- This RPM series is **ONLY** intended to be installed in an indoor temperature-controlled environment that is free of conductive contaminants.
- Do not operate the RPM in: extremely dusty and/or unclean areas, locations near heating devices, water, or excessive humidity, or where the RPM is exposed to direct sunlight.
- Select a location, which will always provide good air circulation for the RPM.
- **CAUTION** – To reduce the risk of fire, connect only to a branch circuit with over current protection in accordance with the National Electric Code.
- **CAUTION** - Connect the RPM to a two pole, three wire grounded AC wall outlet. The receptacle must be connected to the appropriate branch protection (circuit breaker or fuse). Connection to any other type of receptacle may result in a shock hazard and violate local electrical codes. Do not use extension cords, adapter plugs, or surge strips.
- **CAUTION!** To reduce the risk of fire, connect only to a utility power circuit provided with 20 / 30 amperes maximum branch circuit over-current protection in accordance with the National Electric Code, ANSI/NFPA 70.
- Route power cords so they cannot be walked on or damaged.
- **CAUTION** - To reduce the risk of electrical shock with the installation of this RPM equipment and the connected equipment, the user must ensure that the combined sum of the AC leakage current does not exceed 3.5mA.
- **CAUTION** - To de-energize the outputs of the RPM: Disconnect the RPM from the AC wall outlet.
- **CAUTION** - Do not install this device if there is not at least 30 feet (10 meters) or more of wire between the electrical outlet and the electrical service panel.

## **Receiving Inspection**

After removing your RPM from its carton, it should be inspected for damage that may have occurred in shipping. Immediately notify the carrier and place of purchase if any damage is found. Warranty claims for damage caused by the carrier will not be honored. The packing materials that your RPM was shipped in are carefully designed to minimize any shipping damage. In the unlikely case that the RPM needs to be returned to MINUTEMAN, please use the original packing material. Since MINUTEMAN is not responsible for shipping damage incurred when the system is returned, the original packing material is inexpensive insurance. **PLEASE SAVE THE PACKING MATERIALS!**

## **Para Systems Life Support Policy**

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## 2. Introduction

The RPM is an Internet ready device designed and equipped with an intelligent current meter (True RMS) that will indicate the total power consumption of the RPM.

### Features:

- Built-in Web Server to support Remote Power Management.
- Local LCD displays Amps, IP Address, Temperature or Humidity.
- Daily, Weekly, Monthly & Yearly Power Consumption Data.
- 10/100 Base-T Ethernet Port.
- IPv4 and IPv6 support.
- SNMP support (v1, v2c, v3).
- HTTP and HTTPS
- Telnet, SSHv2 Encryption support.
- TLS1.2 (SSL)
- Radius Authentication.
- User Account for three different permissions management systems.
- Alarm notification via Email, SNMP, Syslog, LED, or audible alarm.
- IP Address filtering.
- Maximum 5000 entries for each power consumption Data and Event log.
- Remote firmware upgrade support.
- SNMP Heartbeat Trap available.
- Reports in Fahrenheit or Celsius.
- Export and Import RPM configuration.
- True RMS current measurement.
- Provides Voltage, Frequency, Power Factor, Active power, Apparent power, and kWh information.
- Remote outlet On/Off power switching.
- User defined alarm thresholds for Warning and Overload.
- User defined power On/OFF sequence timing.
- Timed & Scheduled On/Off/Reboot switching.
- Alternative outlet restart mode: Memorize previous status, Always On or Always Off.
- Ping-No-Answer alarm.
- Outlet Action via Pre-set Event, including Power Event, Environmental Event and Receiving Trap from other devices.
- Circuit Breaker protection.
- Free bundle Management Utility.

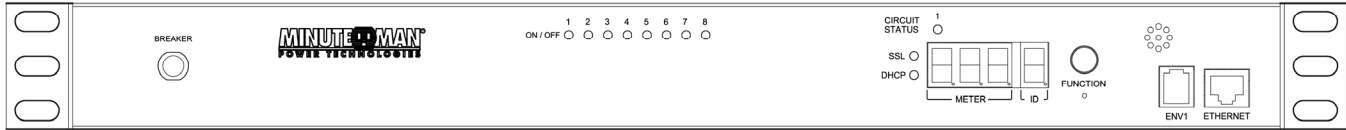
## 3. Package Contents

The standard RPM package contains a Remote Power Manager unit with supporting hardware. The contents of the package are:

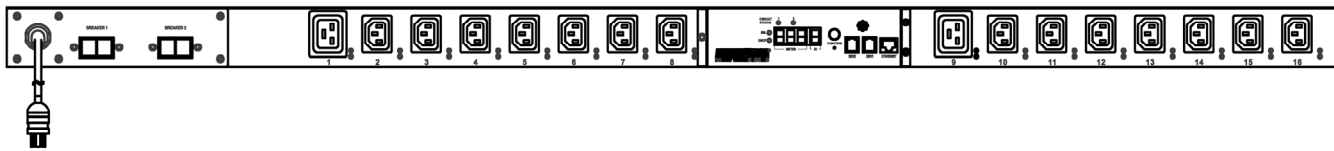
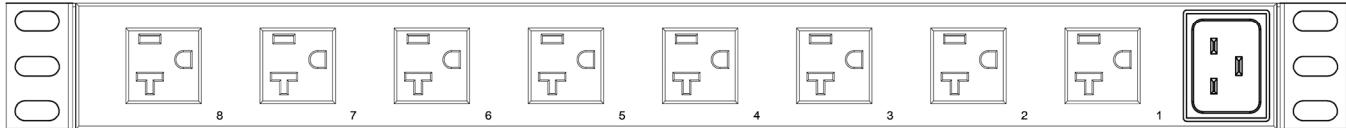
- Remote Power Manager Unit
- Power Cord
- Rackmount Brackets
- Quick Install Instructions
- CD-ROM, which contains:
  - User Manual
  - RPM Utility Manual
  - MIB files
  - RPM Utility Software
  - Adobe Acrobat Reader

# 4. Functions

## FRONT PANEL



## REAR PANEL



Functions	Description
Circuit Breaker	Overload protection.
LED Indicators	<ul style="list-style-type: none"> <li>ON / OFF (green) LEDs: On means the outlet is active. Off means the outlet is not active.</li> <li>Circuit Status (red) LED: On means the RPM is Overloaded.</li> <li>SSL (blue) LED: On means the web access is protected by SSL.</li> <li>DHCP (green) LED: On means the RPM gets its IP address by DHCP.</li> </ul>
Meter	3 digits will display the current draw (in amps) or the IP Address or the temperature and humidity.
ID	1-digit will display the identification number of the RPM.
Function Button	<ul style="list-style-type: none"> <li>Press and release the function button to turn off the audible alarm.</li> </ul> <p><b>Note:</b> The overload alarm cannot be silenced.</p> <ul style="list-style-type: none"> <li>Press and hold the function button for 1 beep, then release will display the ID number, the temperature, and humidity for the Temperature/Humidity Probe.</li> <li>Press and hold the function button for 2 beeps, then release will display the IP address of the RPM.</li> <li>Press and hold the function button for 3 beeps, then release will enable the SSL function.</li> <li>Press and hold the function button for 4 beeps, then release will change the way to set the IP address by either DHCP or fixed IP.</li> <li>Press and hold the function button for 6 beeps, then release resets the RPM back to the default setting.</li> </ul>
Audible Alarm	<ul style="list-style-type: none"> <li>Warning- 1 beep per 1 second.</li> <li>Overload- 3 beeps per 1 second.</li> </ul> <p><b>Note:</b> The audible alarm will continue to beep until the current is lower than the threshold by 0.5 amps.</p>
ENV1	The RJ11 port is for the Temperature/Humidity probe.
Ethernet	The RJ45 port is for the network communication.
Outlets 1 ~ 24	Each individual outlet can be controlled.
AC Inlet	Connect the power cord and then plug into the utility power.

## 5. Installation

This RPM series is **ONLY** intended to be installed in an indoor temperature-controlled environment that is free of conductive contaminants. DO NOT operate the RPM in: extremely dusty and/or unclean areas, locations near heating devices, water, or excessive humidity, or where the RPM is exposed to direct sunlight. Select a location, which will always provide good air circulation for the RPM. Route power cords so they cannot be walked on or damaged.

- To ensure safety a **Qualified Service Personnel** should perform the installation.
- Make sure that the AC Utility outlet is properly grounded.
- Do not install the RPM if there is not at least 30 feet (10 meters) or more of wire between the electrical outlet and the electrical service panel.

The RPM comes with brackets for mounting into a rack. To mount the RPM into a rack, perform the following procedure:

1. Attach the mounting brackets to the RPM, using the four retaining screws provided for each of the brackets.
2. Select the desired location for the RPM.
3. Align the mounting holes of brackets with the notched hole on the vertical rail and attach with the retaining screws.
4. Connect the Ethernet cable to the RPM.
5. Connect the output devices to the RPM's outlets.
6. Connect the input power cord of the RPM to the wall outlet.

### **Note 1:**

The default setting for the IP address is DHCP enabled. If the RPM cannot get the IP from DHCP server, the IP address will stay at the **default IP address 192.168.0.216**

### **Note 2:**

To setup the network system for RPM, it is strongly recommended to build up the power monitoring network system, which is isolated from the others, to maintain reliable system operation.



## 6. Web Interface

### Login:

Enter the IP address of the RPM in a web browser.

#### Note:

The default setting for the IP address is DHCP enabled. If the RPM cannot get the IP from the DHCP server, the IP address will remain at the **default IP address 192.168.0.216**

The default Username is **snmp**.

The default Password is **1234**.






Login Name:

Login Password:

## Information: Overview


This section shows the information about the RPM Power, the temperature/humidity (when using the temp/hum probe), the last five events that have occurred, and the status of the individual outlets.

 Info
  Logout






**Remote Power Manager**


**Information**
Management
Configuration

**Overview**
Power
System
Event Log
Data Log
Chart

**Status:**  Normal 2020/08/10 11:46:46









**RPM Information**

	Total kWh	21.522 kWh			
	Total RPM Current	0.6 Amp		Normal	
	Temperature(1)	82 °F		Normal	
	Humidity(1)	33 %		Normal	

**Event Log**

Date	Time	Event
2020/08/10	10:15:02	Web user [snmp] logged out from 192.168.168.157
2020/08/10	08:51:22	OutletF has been turned on
2020/08/10	08:50:55	OutletF has been turned off
2020/08/10	08:44:00	OutletE has been turned on
2020/08/10	08:43:38	OutletE has been turned off

**Outlet Status**

No.	Name	Status	Event	Ping	Schedule
1	OutletA	 ON	<input checked="" type="checkbox"/>		
2	OutletB	 ON			
3	OutletC	 ON			
4	OutletD	 ON			
5	OutletE	 ON			
6	OutletF	 ON			
7	OutletG	 ON			
8	OutletH	 ON			

## Information: Power

This section shows the information about the current draw, the voltage, the frequency, the power, and the energy.

[Info](#) [Logout](#)

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Remote Power Manager

**Information** Management Configuration

Overview **Power** System Event Log Data Log Chart

**Status:** ✔ Normal 2020/08/10 11:55:43

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**Power Information**

Item	Total	Unit
Current	0.6	Amp
Voltage	120.26	V
Frequency	59.98	Hz
Power Factor	1.00	W/VA
Active Power	71.88	W
Apparent Power	72.16	VA
Main Energy	21.533	W
Accumulated Energy	6.942	kWh

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All right reserved

## Information: System

This section shows the information about the System (RPM), Network and SNMP:

[Info](#) [Logout](#)

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Remote Power Manager

**Information** Management Configuration

Overview Power **System** Event Log Data Log Chart

**Status:** ✔ Normal 2020/08/10 13:59:32

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**System Information**

Model Number	<b>RPM1581LCD</b>
Firmware Version	<b>Ver e.1.04_202007171206</b>
System Uptime	<b>System has been up for : 2 day(s) , 22 hour(s) , 33 minutes , 49 second(s) , since 07.08.2020 03:25:05 PM</b>

---

**Network Information**

IPv4 Address	<b>192.168.168.239</b>
IPv6 Address	<b>192:168:0::127</b>
MAC	<b>00:06:18:75:E7:F5</b>

---

**SNMP System Information**

System Name	<b>rpm</b>
System Contact	<b>admin</b>
System Location	<b>office</b>

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All right reserved

## Information: Event Log

This table lists all the events that have occurred. The existing values are overwritten when the maximum number of entries (5000) has been reached. You can filter the log based on specific dates and times. The event logs can be downloaded and saved for future reference.

Remote Power Manager Info Logout

Information Management Configuration

Overview Power System **Event Log** Data Log Chart

Status: ✔ Normal 2020/08/10 14:14:59

**Event Log Filtering** Filter

Event Time  Last  From   ~

**Event Log** Clear < >

Date	Time	Event
2020/08/10	14:09:43	OutletH has been turned on by (snmp)
2020/08/10	14:09:42	OutletG has been turned on by (snmp)
2020/08/10	14:09:41	OutletF has been turned on by (snmp)
2020/08/10	14:09:40	OutletE has been turned on by (snmp)
2020/08/10	14:09:39	OutletD has been turned on by (snmp)
2020/08/10	14:09:38	OutletC has been turned on by (snmp)
2020/08/10	14:09:37	OutletB has been turned on by (snmp)
2020/08/10	14:09:36	OutletA has been turned on by (snmp)
2020/08/10	14:09:18	OutletH has been turned off by (snmp)
2020/08/10	14:09:17	OutletG has been turned off by (snmp)

## Information: Data Log

This table lists all the saved power and environmental data. The existing values are overwritten when the maximum number of entries (5000) has been reached. You can filter the log based on specific dates and times. The event logs can be downloaded and saved for future reference.

Remote Power Manager Info Logout

Information Management Configuration

Overview Power System Event Log **Data Log** Chart

Status: ✔ Normal 2020/08/10 14:18:40

**Data Log Filtering** Filter

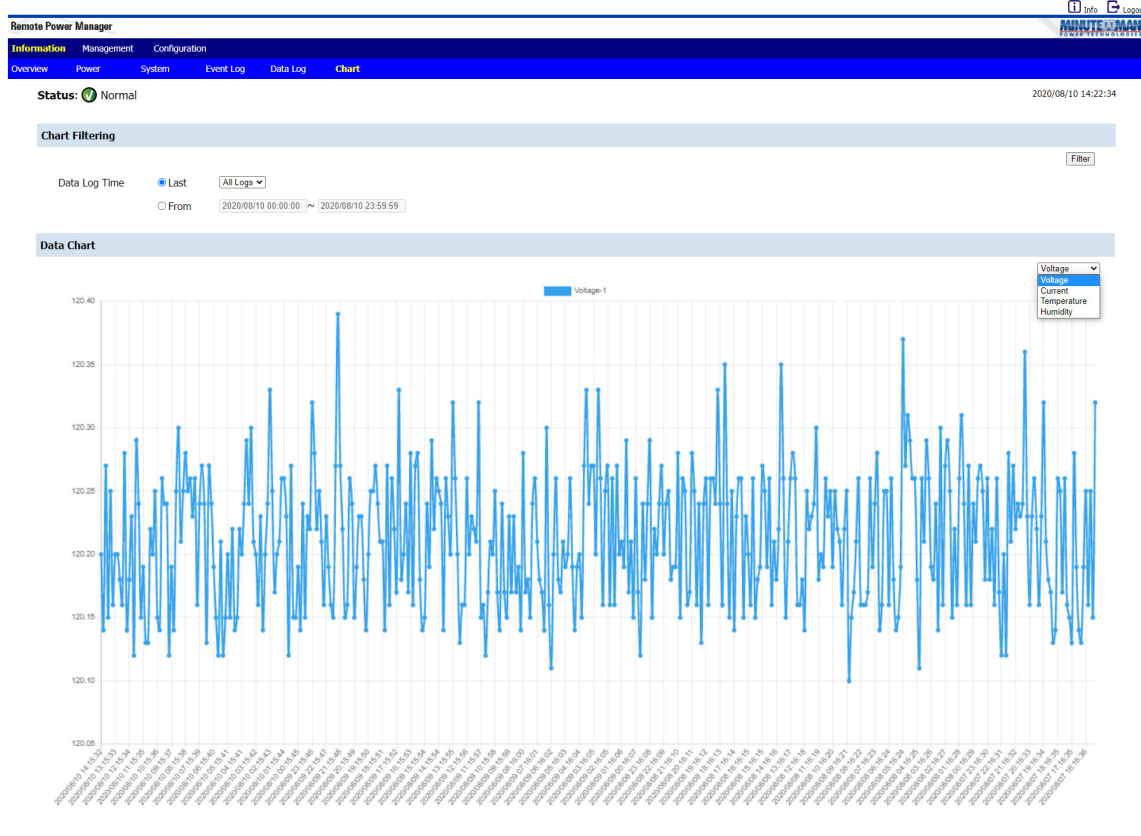
Data Log Time  Last  From   ~

**Data Log** Clear < >

Date	Time	kWh	V	Amp	Temp. F	Humidity %
2020/08/10	11:55:34	21.533	120.12	0.60	84.2	31
2020/08/10	12:05:34	21.545	120.23	0.60	80.6	33
2020/08/10	12:15:34	21.556	120.18	0.60	84.2	33
2020/08/10	12:25:34	21.568	120.14	0.60	80.6	33
2020/08/10	12:35:34	21.580	120.28	0.60	82.4	33
2020/08/10	12:45:34	21.592	120.16	0.60	82.4	31
2020/08/10	12:55:33	21.604	120.18	0.60	82.4	33

# Information Chart

The chart shows the saved power and environmental data, then displays it in graphical form.



All right reserved

## Management: Control

This allows the specified users to control the outlets.

Select the outlet by checking the box and then click the ON, the OFF, or the Restart button to control the outlet.

**ON:** Click the ON button to turn on the selected outlets.

**OFF:** Click the OFF button to turn off the selected outlets.

**Restart:** Click the Restart button to reboot (off/on) the selected outlets.

**Delete:** To delete a group, click on the group and then click on Delete.

**Rename:** To rename the group, click on the group, then enter the name in the box and then click on the Rename button. The group name can be 20 characters maximum.

**Make Group:** Select the outlets to include in the group and then click the Make Group button.

### Note :

After the RPM is plugged into the main power, the RPM will automatically start to sequentially turn on the outlets according to the preset delay time. The default setting for delay time is one second for each outlet; therefore the 8 outlet RPM will take 8-seconds to complete the start-up sequence.

If the RPM is unplugged from the main power before the start-up sequence is completed, the outlets, which were not turned on will remain off. The next time the RPM is plugged into the main power, these outlets will not be automatically turned on. These outlets can only be turned on via the web interface.

Remote Power Manager

Information Management Configuration

Control Schedule Ping Action Event Action Device Threshold

Status: ● Normal 2020/08/10 14:46:14

Group Outlet Control

ON OFF Restart Delete Rename Closest205

No.	<input type="checkbox"/>	Group	Outlet
01	<input checked="" type="checkbox"/>	NewGroup	OutletF(6) OutletG(7) OutletH(8)

Outlet Control

ON OFF Restart Make Group

No.	<input type="checkbox"/>	Outlet	Status	Task	Delay On(Sec)	Delay Off (Sec)
1	<input type="checkbox"/>	OutletA	<span style="color: green;">●</span> ON	Free	1	1
2	<input type="checkbox"/>	OutletB	<span style="color: green;">●</span> ON	Free	2	2
3	<input type="checkbox"/>	OutletC	<span style="color: green;">●</span> ON	Free	3	3
4	<input type="checkbox"/>	OutletD	<span style="color: green;">●</span> ON	Free	4	4
5	<input type="checkbox"/>	OutletE	<span style="color: green;">●</span> ON	Free	5	5
6	<input type="checkbox"/>	OutletF	<span style="color: green;">●</span> ON	Free	6	6
7	<input type="checkbox"/>	OutletG	<span style="color: green;">●</span> ON	Free	7	7
8	<input type="checkbox"/>	OutletH	<span style="color: green;">●</span> ON	Free	8	8

All right reserved

## Management: Schedule

This allows the administrator to schedule turning OFF/ON the RPM's outlets.

**Outlet:** Assign the outlet and/or group to be controlled in this schedule.

**Outlet Action:** Select the action you want to occur.

**Date:** When selecting the Once option, a specific date must be entered. When selecting the 'Every' option you can set the schedule for an outlet using an assigned weekly day, or every day.

**Time:** Set the time for the action to occur.

Remote Power Manager

Information Management Configuration

Control Schedule Ping Action Event Action Device Threshold

Status: ● Normal 2020/08/10 15:07:52

**Schedule Setting**

Outlet: OutletA (1)

Outlet Action: ON

Date (yyyy/mm/dd):  Once   Every Monday

Time (hh:mm):

**Schedule List**

No.	<input type="checkbox"/>	Item	Date	Time	Action	Enable
1	<input type="checkbox"/>	OutletA	Friday	21:00	OFF/ON	<input checked="" type="checkbox"/>
2	<input type="checkbox"/>	Closest205	Monday	05:30	OFF/ON	<input checked="" type="checkbox"/>

All right reserved

## Management: Ping Action

This allows the administrator to Ping the device that is connected to a specific outlet and if there is no response the RPM will automatically cycle power to a locked device connected to the specified outlet by rebooting the outlet.

**Outlet:** Select which outlet and/or group that the Action will be perform on.

**IP Address:** Set the IP address of the device to be monitored by the RPM.

**Response 5 minutes:** The RPM will ping the assigned IP address once each minute. If the device does not respond, then the RPM will repeat the ping once every minute, if the device does not respond after 5 attempts (5 minutes), the RPM will carry out the assigned action automatically.

**Outlet Action:** Select the outlet action "OFF, ON, ON/OFF or "OFF/ON"

**Add:** Enables this function.

To delete a Ping action, select the action from the list and select Delete.

The screenshot shows the 'Remote Power Manager' web interface. At the top, there is a navigation bar with 'Management' selected. Below it, a sub-menu shows 'Ping Action' as the active tab. The main content area displays the 'Ping Action Setting' form with fields for Outlet (OutletA (1)), IP Address, Response Time (5min), and Outlet Action (ON). Below the form is a 'Ping Action List' table with one entry: No. 01, Outlet OutletD (4), IP Address 192.168.0.101, Response Time 5 min(s), Action OFF/ON, and an 'Enable' checkbox that is checked. A 'Delete' button is visible next to the table header.

No.	Outlet	IP Address	Response Time	Action	Enable
01	OutletD (4)	192.168.0.101	5 min(s)	OFF/ON	<input checked="" type="checkbox"/>

All right reserved



## Management: Event Action

This allows the administrator to setup specific actions based on a selected event. The RPM can also receive SNMP traps from a specified device and then perform the selected action.

### Event

**Device:** When the current for entire RPM exceeds the Warning or Overload thresholds the RPM will perform the selected Action.

**ENV:** When the temperature or humidity exceeds the thresholds, the RPM will perform the selected action.

**Receive Trap:** When the RPM receives a trap from the specified device the RPM will perform the selected action. Enter the specific trap OID information and the IP address of the device sending the trap to the RPM.

**Outlet:** Select which outlet and/or group that the Action will be perform on.

**Action:** The RPM will perform the action based on the configured event.

Once the Event and the Action have been setup click Add to saving the settings.

### Note:

To setup the thresholds for the Device, the Outlets or the ENV, see the Management Threshold section.

The **Event Address List** provides a list of all the configured events. To delete an event, select the box in front of the event then click Delete.

The screenshot shows the 'Remote Power Manager' web interface. At the top, there is a navigation bar with 'Management' selected. Below it, the 'Event Action' configuration page is displayed. The status is 'Normal' and the date is '2020/08/10 15:41:16'. The 'Event Action Setting' form includes fields for Event (Device, ENV (1), or Receive Trap), Outlet (OutletA (1)), Delay (0 seconds), Action (ON), and Action Type (None). Below the form is the 'Event List' table with columns for No., Event, Action, and Enable.

No.	Event	Action	Enable
01	ENV (1) over the Temperature Overrun Removed	Closest205 Delay 600 second(s) and turn ON	<input checked="" type="checkbox"/>
02	ENV (1) over the Temperature Overrun Occurs	Closest205 Delay 240 second(s) and turn OFF	<input checked="" type="checkbox"/>
03	Device over the overload threshold Removed	OutletC (3) Delay 5 second(s) and turn ON	<input checked="" type="checkbox"/>
04	Device over the overload threshold Occurs	OutletC (3) Delay 15 second(s) and turn OFF	<input checked="" type="checkbox"/>
05	Receive Trap Trap .1.3.6.1.4.1.2254.2.4.20.0.4 From 192.168.0.110	OutletA (1) Delay 1 second(s) and turn ON (Override)	<input checked="" type="checkbox"/>
06	Receive Trap Trap .1.3.6.1.4.1.2254.2.4.20.0.3 From 192.168.0.110	OutletA (1) Delay 1 second(s) and turn OFF (Override)	<input checked="" type="checkbox"/>

## Management: Device

This allows the administrator to configure the outlet name, the delay time and select different users for specific outlets.

### Outlet Configuration

**Outlet Name:** Rename the outlet.

**Delay ON:** Set the delay time in seconds for the power on sequence.

**Delay OFF:** Set the delay time in seconds for the power off sequence.

**After Restart:** Set the desired state, you want the outlet to be after the outlet has been restarted.

**Owner:** The administrator can setup different users for specific outlets. The user accounts must be setup first, see the Configuration User tab.

Click Apply to save the settings, once the setup is complete.

### Note:

The maximum delay times are 9999 seconds.

### Energy Configuration

**Carbon Emission Rate:** Set the Carbon Emission Rate and then select Apply to saving the setting.

The screenshot shows the 'Remote Power Manager' web interface. At the top, there is a navigation bar with 'Management' selected. Below it, a 'Status' indicator shows 'Normal'. The main content area is divided into two sections: 'Outlet Configuration' and 'Energy Configuration'. The 'Outlet Configuration' section contains a table with 9 rows, each representing an outlet. The columns are 'No.', 'Outlet Name', 'Delay On second(s)', 'Delay Off second(s)', 'After Restart', and 'Owner'. The 'Energy Configuration' section shows a 'Device Carbon Emission Rate' set to 0.5. An 'Apply' button is visible at the bottom right of the Energy Configuration section.

No.	Outlet Name	Delay On second(s)	Delay Off second(s)	After Restart	Owner
0	All Outlet			Last Status	snmp
1	OutletA	1	1	ON	snmp
2	OutletB	2	2	Last Status	snmp
3	OutletC	3	3	Last Status	snmp
4	OutletD	4	4	Last Status	snmp
5	OutletE	5	5	Last Status	snmp
6	Closet205#1	1	2	ON	snmp
7	Closet205#2	3	1	Last Status	snmp
8	Closet205#3	5	3	ON	snmp

Energy Configuration  
Device Carbon Emission Rate: 0.5 Apply

All right reserved

### Note :

After the RPM is plugged into the main power, the RPM will automatically start to sequentially turn on the outlets according to the preset delay time. The default setting for delay time is one second for each outlet; therefore the 8 outlet RPM will take 8-seconds to complete the start-up sequence.

If the RPM is unplugged from the main power before the start-up sequence is completed, the outlets, which were not turned on will remain off. The next time the RPM is plugged into the main power, these outlets will not be automatically turned on. These outlets can only be turned on via the web interface.

## Management: Threshold

This allows the administrator to configure the thresholds for the Temp/Hum probe, the entire RPM, and each individual outlet.

**Device Threshold Configuration:** Set the warning and overload thresholds for entire RPM then click Modify to change the settings. Once these thresholds are set see the management Event Actions to configure the actions based on these thresholds.

**ENV Threshold Configuration:** Set the lower and upper thresholds for the optional Temp/Hum probe then click Modify to change the settings. Once these thresholds are set see the management Event Actions to configure the actions based on these thresholds.

Remote Power Manager Info Logout

Information **Management** Configuration

Control Schedule Ping Action Event Action Device **Threshold**

Status: ✔ Normal 2020/08/11 13:58:39

### Device Threshold Configuration

No.	Device	Warning (Amp)	Overload (Amp)	
01	RPM	<input type="text" value="12"/>	<input type="text" value="15"/>	<input type="button" value="Modify"/>

### ENV Threshold Configuration

No.	ENV	Temperature(°F)		Humidity(%)		
		Lower	Upper	Lower	Upper	
01	ENV 1	<input type="text" value="32"/>	<input type="text" value="122"/>	<input type="text" value="0"/>	<input type="text" value="99"/>	<input type="button" value="Modify"/>

All right reserved

## Configuration: Network

This allows the administrator to configure the network settings.

### TCP/IP Settings for IPv4

**Host Name:** The host name of the RPM.

**DHCP Client:** Enable/Disable DHCP to get the IP address from a DHCP server. The default setting for DHCP is enabled.

**IP Address:** The IP address of the RPM. The default static IP address is 192.168.0.216.

**Subnet Mask:** The subnet mask for your network.

**Gateway IP:** The IP address of the IVP4 network gateway.

**DNS Server1:** The IP address of the primary DNS server.

**DNS Server1:** The IP address of the secondary DNS server.

Once the information has been entered click Apply to save the settings.

### TCP/IP Settings for IPv6

**DHCP Client:** Enable/Disable DHCP to get the IP address from DHCP server. The default setting for the IPv6 DHCP is enabled.

**IP Address:** The IPv6 address of the RPM.

**Default Gateway Address:** The IP address of the IPv6 network gateway.

Once the information has been entered click Apply to save the settings.

The screenshot shows the 'Remote Power Manager' configuration page. The top navigation bar includes 'Information', 'Management', and 'Configuration'. Under 'Configuration', there are sub-tabs for 'Network', 'Security', 'User', 'Mail', 'SNMP', 'Time', 'Radius', 'Log', and 'System'. The 'Network' tab is active. The status is 'Normal' and the date/time is '2020/08/11 14:04:08'. The 'IPv4 Setting' section includes fields for Hostname (rpm), DHCP enable (Inactive), IP Address (192.168.0.213), Subnet Mask (255.255.255.0), Default Gateway Address (192.168.0.1), DNS Server 1 (7.7.7.7), and DNS Server 2 (7.7.4.4). The 'IPv6 Setting' section includes IPv6 Enable (checked), IP Address (192.168.0:127 / 120), and Default Gateway Address (192.168.0:1). Each section has an 'Apply' button.

All right reserved

## Configuration: Security

This allows the administrator to configure the security settings to prevent unauthorized users from accessing the RPM.

### HTTP Configuration

**Server:** Enabling or disabling the HTTP connection with the RPM.

**SSL:** Enable or Disable the SSL function. The user may configure HTTPS protocol to use a port number other than standard HTTPS port (443).

**Redirect HTTP to HTTPS:** Change from the standard HTTP protocol to the HTTPS protocol.

**Port Number:** The user may configure port number for the HTTP port (default: 80) or the port number for the HTTPS port (default: 443).

Once the information has been entered click Apply to save the settings.

### Telnet Configuration

**Server:** Enabling or disabling the Telnet connection with the RPM.

**SSH:** Enabling or disabling the SSH connection with the RPM.

**Port Number:** The user may configure Telnet protocol to use a port number other than standard Telnet port (23).

Once the information has been entered click Apply to save the settings.

**IP Filter:** Use the IP filter to lockout unauthorized users. Once the information has been entered click Add to save the settings.

The screenshot shows the 'Remote Power Manager' interface. At the top right, there are links for 'Info' and 'Logout'. Below the title bar, a navigation menu includes 'Information', 'Management', and 'Configuration'. Under 'Configuration', there are sub-menus for 'Network', 'Security', 'User', 'Mail', 'SNMP', 'Time', 'Radius', 'Log', and 'System'. The 'Security' menu is active. The main content area shows the system status as 'Normal' with a green circle icon, and the date/time as '2020/08/11 14:11:54'. There are three configuration sections: 1. 'HTTP Configuration' with fields for 'Server' (dropdown set to 'Enable'), 'SSL' (checkbox), 'Redirect HTTP to HTTPS' (checkbox), and 'Port Number' (text box with '80'). 2. 'Telnet Configuration' with fields for 'Server' (dropdown set to 'Enable'), 'SSH' (checkbox), and 'Port Number' (text box with '23'). 3. 'IP Filter' with an empty text box. Each section has an 'Apply' button. At the bottom of the IP Filter section, there is an 'Add' button. The footer of the page reads 'All right reserved'.

## Configuration: User

This allows the administrator to add users and give them specific rights.

**No.:** This is the number of users. The maximum number of users is eight.

**User:** This is the user's login name. The default administrator's name is **snmp**.

**Password:** This is the user's login password. The default password for the administrator is **1234**.

### Permission:

**Administrator:** Full authority to monitor, control and configure RPM. Default name is **snmp** and the default password is **1234**.

**Power User:** Monitor the RPM, control the specified outlets. No permission to configure RPM. Default password is **password**.

**View Only:** Monitor the RPM only. No permission to control or configure the RPM. Default password is **password**.

**Email:** Enter an email address for the recipient you want to receive the email notification.

### To add a new user:

1. Enter the username and then click Add.
2. Enter the password.
3. Confirm the password.
4. Select the Permission rights.
5. Enter the email address if the user is to receive emails.
6. Click on Modify to save the settings.

### Note:

See the Management Device tab to give each user rights to specific outlets.

No.	User	New Password	Confirm	Permission	Email	
01	snmp	<input type="text"/>	<input type="text"/>	Administrator	<input type="text" value="name@companyname.com"/>	Modify
02	man	<input type="text"/>	<input type="text"/>	Power User	<input type="text" value="name@companyname.com"/>	Modify Delete
03	gen	<input type="text"/>	<input type="text"/>	View Only	<input type="text" value="name@companyname.com"/>	Modify Delete
		<input type="text"/>				Add

## Configuration: Mail

This allows the administrator to setup the email notification. When an event occurs, the RPM can send out email messages to the predefined accounts.

**Email Server:** Enter the Hostname or IP address of the SMTP Mail Server that will be used to send emails. If entering a Hostname, you are also required to enter the DNS Address, see the Configuration Network tab.

**Port:** Enter the port number for the SMTP server. The default port is 25.

**TLS/SSL:** Check this box if using secure email.

**Email Server Requires Authorization:** Check this box if the Mail Server requires authentication to send emails.

**Account Name:** Enter the account name if SMTP authentication is required.

**Password:** Enter the password if SMTP authentication is required.

Click Apply to save all the settings.

**Test:** Input the recipient's email address. Click on the Send button to send the test email.

The screenshot shows the 'Remote Power Manager' web interface. At the top right, there are 'Info' and 'Logout' links. Below the header is a navigation menu with tabs for 'Information', 'Management', and 'Configuration'. Under 'Configuration', there are sub-tabs for 'Network', 'Security', 'User', 'Mail', 'SNMP', 'Time', 'Radius', 'Log', and 'System'. The 'Mail' tab is selected. Below the navigation, the status is shown as 'Normal' with a green checkmark icon, and the date/time is '2020/08/11 14:33:45'. The main content area is titled 'Mail Configuration' and contains several form fields: 'Email Server' (smtp.gmail.com), 'Port Number' (587), 'TLS/SSL' (Yes), 'Email Server Requires Authentication' (Yes), 'Account' (name@gmail.com), 'Password' (masked with dots), and 'Test' (name@companyname.com). There is an 'Apply' button at the top right of the form and a 'Send' button next to the 'Test' field. At the bottom of the page, it says 'All right reserved'.

### NOTE:

The email recipient's email address must be entered in the Configuration User tab to receive emails about the RPM Events.

## Configuration: SNMP

The RPM supports the SNMPv1, v2c and v3 traps to satisfy most of the user's environment. This allows the administrator to setup the SNMP Traps. When an event occurs, the RPM can send out SNMP Traps to predefined targets.

Once the SNMP configuration is complete click the Apply button to save the settings.

[Info](#) [Logout](#)

2020/08/11 14:48:56

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Remote Power Manager
MINUTEMAN

Information
Management
Configuration
Network
Security
User
Mail
SNMP
Time
Radius
Log
System

**Status:** ● Normal

---

### SNMP Configuration

Apply

SNMP Enable  Active  Inactive

System Name

System Contact

System Location

---

### Communication Configuration v1 & v2

Apply

No.	Access Type	Community
1.	<input type="text" value="read-only"/>	<input type="text" value="public"/>
2.	<input type="text" value="read-write"/>	<input type="text" value="private"/>
3.	<input type="text" value="Not Accessible"/>	<input type="text"/>
4.	<input type="text" value="Not Accessible"/>	<input type="text"/>
5.	<input type="text" value="Not Accessible"/>	<input type="text"/>
6.	<input type="text" value="Not Accessible"/>	<input type="text"/>
7.	<input type="text" value="Not Accessible"/>	<input type="text"/>
8.	<input type="text" value="Not Accessible"/>	<input type="text"/>

---

### Communication Configuration v3

Apply

No.	Access Type	User	Auth Type	Authentication	Encryption
1.	<input type="text" value="read-only"/>	<input type="text" value="public"/>	<input type="text" value="noauth"/>	<input type="text" value="MD5"/>	<input type="text" value="AES"/>
2.	<input type="text" value="read-write"/>	<input type="text" value="private"/>	<input type="text" value="auth"/>	<input type="text" value="SHA"/>	<input type="text" value="DES"/>
3.	<input type="text" value="Not Accessible"/>	<input type="text"/>	<input type="text" value="noauth"/>	<input type="text" value="MD5"/>	<input type="text" value="AES"/>
4.	<input type="text" value="Not Accessible"/>	<input type="text"/>	<input type="text" value="noauth"/>	<input type="text" value="MD5"/>	<input type="text" value="AES"/>
5.	<input type="text" value="Not Accessible"/>	<input type="text"/>	<input type="text" value="noauth"/>	<input type="text" value="MD5"/>	<input type="text" value="AES"/>
6.	<input type="text" value="Not Accessible"/>	<input type="text"/>	<input type="text" value="noauth"/>	<input type="text" value="MD5"/>	<input type="text" value="AES"/>
7.	<input type="text" value="Not Accessible"/>	<input type="text"/>	<input type="text" value="noauth"/>	<input type="text" value="MD5"/>	<input type="text" value="AES"/>
8.	<input type="text" value="Not Accessible"/>	<input type="text"/>	<input type="text" value="noauth"/>	<input type="text" value="MD5"/>	<input type="text" value="AES"/>

---

### Trap Configuration v1 & v2

Apply

No.	Enable	IP Address	Community
1.	<input type="text" value="Yes"/>	<input type="text" value="192.168.0.2"/>	<input type="text" value="Public"/>
2.	<input type="text" value="No"/>	<input type="text"/>	<input type="text"/>
3.	<input type="text" value="No"/>	<input type="text"/>	<input type="text"/>
4.	<input type="text" value="No"/>	<input type="text"/>	<input type="text"/>

---

### Trap Configuration v3

Apply

No.	Enable	IP Address	User	Auth Type	Authentication	Encryption
1.	<input type="text" value="Yes"/>	<input type="text" value="192.168.0.3"/>	<input type="text"/>	<input type="text" value="auth"/>	<input type="text" value="MD5"/>	<input type="text" value="AES"/>
2.	<input type="text" value="No"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="noauth"/>	<input type="text" value="MD5"/>	<input type="text" value="AES"/>
3.	<input type="text" value="No"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="noauth"/>	<input type="text" value="MD5"/>	<input type="text" value="AES"/>
4.	<input type="text" value="No"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="noauth"/>	<input type="text" value="MD5"/>	<input type="text" value="AES"/>

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All right reserved



## Configuration: Time

This allows the administrator to setup the system time for the scheduled events.

**Time Configuration:** To use the Simple Network Time Protocol (SNTP), Activate the SNTP and then setup the Timeserver. Click the Apply button to save the settings.

To setup the date and time manually, Inactive the SNTP. Set the date and time, then click the Apply button to save the settings.

Remote Power Manager Info Logout

Information Management **Configuration**

Network Security User Mail SNMP **Time** Radius Log System

Status: ✔ Normal 2020/08/11 15:21:05

### Time Configuration Apply

SNTP  Active  Inactive

Primary Timer Server

Secondary Time Server

Time Between Automatic Updates

Time Zone (Relative to GMT)

Date  **Year**  **Month**  **Day**

Time  :  :  (hh:mm:ss)

All right reserved

## Configuration: Radius

This allows the administrator to configure the RADIUS parameters. Remote Authentication Dial-In User Service (RADIUS) is a widely deployed protocol enabling centralized authentication, authorization, and accounting for network access.

**RADIUS:** Enable or Disable the RADIUS function.

**Primary Server:** Input the Primary RADIUS Server's IP address.

**Shared Secret:** Input the Password of Primary Server.

**Port:** Input the RADIUS UDP port for the primary server.

**Timeout:** Set the packet timeout interval.

**Retries:** Set the number of retries before locking out the user.

**Secondary Server:** Input the Secondary RADIUS Server's IP address.

**Shared Secret:** Input the Password of Secondary Server.

**Port:** Input the RADIUS UDP port for the secondary server.

**Timeout:** Set the packet timeout interval.

**Retries:** Set the number of retries before locking out the user.

Click on the **Apply** button to save the changes.

The screenshot shows the 'Remote Power Manager' web interface. At the top right, there are links for 'Info' and 'Logout'. Below the title bar, a navigation menu includes 'Information', 'Management', and 'Configuration'. Under 'Configuration', there are sub-menus for 'Network', 'Security', 'User', 'Mail', 'SNMP', 'Time', 'Radius' (highlighted), 'Log', and 'System'. The main content area shows 'Status: Normal' with a green checkmark icon and the date '2020/08/19 11:02:09'. Below this is the 'Radius Configuration' section, which contains a list of settings: 'RADIUS' (set to 'Enable'), 'Primary Server', 'Shared Secret', 'Port Number', 'Timeout', 'Retries', 'Secondary Server', 'Shared Secret', 'Port Number', 'Timeout', and 'Retries'. Each setting has a corresponding input field. An 'Apply' button is located at the bottom right of the configuration section.

All right reserved

## Configuration: Log

This allows the administrator to setup the log information.

**Export Data Configuration:** Export the log files in csv format.

**Syslog Configuration:** Configure the RPM to send Systems logs.

**Data Log Configuration:** Set the time interval to record the data logs.

**Heartbeat Interval:** Enable or Disable the Heartbeat Trap and set the interval time.

**Event Log Configuration:** Check the events you want to receive notifications for via emails, or SNMP traps.

Remote Power Manager Info Logout

Information Management **Configuration**

Network Security User Mail SNMP Time Radius **Log** System

Status: ✔ Normal 2020/08/11 15:59:57

### Export Data Configuration

Event Log	<input type="button" value="Export"/>
Data Log	<input type="button" value="Export"/>
kWh Monthly Report / Send on	<input type="button" value="Modify"/> <input type="button" value="Disable"/>

### Syslog Configuration

Primary Server	<input type="text"/>	<input type="button" value="Apply"/>
Secondary Server	<input type="text"/>	
Port Number	<input type="text"/>	

### Data Log Configuration

Data Log Interval	<input type="text" value="10mins"/>	<input type="button" value="Apply"/>
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### Heartbeat Trap Configuration

Heartbeat Interval	<input checked="" type="checkbox"/> Disable	<input type="button" value="Apply"/>
	<input type="text" value=""/> Sec	

### Event Log Configuration

<b>System Events</b>		
User Log in	<input checked="" type="checkbox"/>	
System Configuration Change	<input checked="" type="checkbox"/>	
<b>Power Events</b>		
Outlet On	<input checked="" type="checkbox"/>	
Outlet Off	<input checked="" type="checkbox"/>	
<b>ENV Events</b>		
Environmental Temperature Overrun	<input checked="" type="checkbox"/>	
Environmental Temperature Underrun	<input checked="" type="checkbox"/>	
Environmental Humidity Overrun	<input checked="" type="checkbox"/>	
Environmental Humidity Underrun	<input checked="" type="checkbox"/>	

All right reserved

## Configuration: System

This allows the administrator to configure the system.

**System Configuration:** Configure one RPM, then its configuration file can be saved and then uploaded to another RPM.

**Firmware Upgrade:** The firmware can be upgraded via the web page.

**Reset System:** Reset the system back to the factory default setting.

**Hardware Reset Button Definition:** Configure how the reset button functions.

**Temperature Scale:** Configure how the temperature for the external Temp/Humidity probe will be displayed.

**Auto Logout:** Configure the amount of time before the system will automatically log you off.

The screenshot shows the 'Remote Power Manager' web interface. At the top right, there are links for 'Info' and 'Logout'. Below the header, a navigation menu includes 'Information', 'Management', and 'Configuration'. Under 'Configuration', there are sub-menus for 'Network', 'Security', 'User', 'Mail', 'SNMP', 'Time', 'Radius', 'Log', and 'System' (which is highlighted). The main content area shows the system status as 'Normal' with a green checkmark and the date '2020/08/11 15:56:58'. The 'System Configuration' section includes 'Configuration Export' (with an 'Export' button) and 'Configuration Import' (with a 'Choose File' button, 'No file chosen' text, and an 'Upload' button). The 'Firmware Upgrade' section has a 'Firmware Upload' area with a 'Choose File' button, 'No file chosen' text, and an 'Upload' button, along with 'Update' and 'Update and Reset' buttons. The 'Reset System' section offers two radio button options: 'Reset All Setting Back to Factory Default' (selected) and 'Reset All Setting Back to Factory Default Except the IP Address'. The 'Hardware Reset Button Definition' section has three radio button options: 'Reset All Setting Back to Factory Default' (selected), 'Reset Administrator's Password to Default Only', and 'Disable (Please note if you forget the password, you can not recover the system anymore!)'. The 'Temperature Scale' section has two radio button options: 'Fahrenheit °F' (selected) and 'Celsius °C'. The 'Auto Logout' section features a dropdown menu set to 'No' and the text 'minutes', with an 'Apply' button.

All right reserved

## 7. Specifications

Model Number	RPM158N1LCD-15P	RPM208N1LCD-20P	RPM2024N1LCD-20P	RPM3024N1LCD-L30P	RPM3024N1LCD-HW
Load Capacity (Max)	12Amps	16Amps		24Amps	
<b>INPUT PARAMETERS</b>					
Number of Phases	Single (1Ø2W +G)				
Nominal Voltage	100-127VAC				
Frequency	50/60Hz				
Input Protection	Re-settable circuit breaker				
<b>OUTPUT PARAMETERS</b>					
Nominal Voltage	100-127VAC				
Frequency	50/60Hz				
Branch Circuit Protection	UL 62368-1				
Circuit Quantity	One				
<b>ENVIRONMENTAL</b>					
Operating Temperature	+32° - +113°F (0° - 45°C)				
Storage Temperature	+32° - +149°F (0° - 65°C)				
Operating/Storage Humidity	0 - 90%, non-condensing				
Operating Elevation	0 to 3,000m (0 to +10,000 ft)				
Storage Elevation	0 to 15,000m (0 to +50,000 ft)				
<b>PHYSICAL</b>					
Input Power Cord	10-foot detachable	10-foot attached			
Input Plug	NEMA 5-15P	NEMA 5-20P	NEMA L5-30P	Hardwire	
Quantity Output Receptacles	8	24			
Type Output Receptacles	NEMA 5-15/20R				
Rack Mounting Format	Horizontal (1U) Vertical (0U)	Vertical (0U)			
Net Dimension L x W x H (mm)	17.01 x 5.83 x 1.75" (432 x 148 x 44.5)	70.00 x 2.20 x 3.10" (1778 x 56 x 78)	70.00 x 2.20 x 3.54" (1778 x 56 x 90)		
Net Weight Lbs (Kgs)	7.72 (3.50)	14.3 (6.5)	18.10 (8.20)		
Ship Dimensions L x W x H (mm)	19.90 x 8.30 x 3.50" (505 x 210 x 90)	74.40 x 8.70 x 4.30" (1890 x 220 x 110)			
Ship Weight Lbs (Kgs)	9.04 (4.10)	17.6 (8.0)	20.72 (9.40)		
<b>REGULATORY COMPLIANCE</b>					
Safety/Approvals	ETL, IEC 62368-1, NOM, CE, FCC Class B RoHS2 (EU Directive 2011/65/EU & 2015/863/EU)				

## Specifications (Cont.)

Model Number	RPM208I2LCD-L20P	RPM308I2LCD-L30P	RPM308I2LCD-HW	RPM3016I2LCD-L30P	RPM3016I2LCD-HW
Load Capacity (Max)	16Amps	24Amps	24Amps	24Amps	24Amps
<b>INPUT PARAMETERS</b>					
Number of Phases	Single (1Ø2W +G)				
Nominal Voltage	200-240VAC				
Frequency	50/60Hz				
Input Protection	Re-settable circuit breaker				
<b>OUTPUT PARAMETERS</b>					
Nominal Voltage	200-240VAC				
Frequency	50/60Hz				
Branch Circuit Protection	UL 62368-1				
Circuit Quantity	One				
<b>ENVIRONMENTAL</b>					
Operating Temperature	+32° - +113°F (0° - 45°C)				
Storage Temperature	+32° - +149°F (0° - 65°C)				
Operating/Storage Humidity	0 - 90%, non-condensing				
Operating Elevation	0 to 3,000m (0 to +10,000 ft)				
Storage Elevation	0 to 15,000m (0 to +50,000 ft)				
<b>PHYSICAL</b>					
Input Power Cord	10-foot attached				
Input Plug	NEMA L6-20P	NEMA L6-30P	Hardwire	NEMA L6-30P	Hardwire
Quantity Output Receptacles	8			16	
Type Output Receptacles	IEC320-C13			IEC320-C13 (14) IEC320-C19 (2)	
Rack Mounting Format	Horizontal (1U) Vertical (0U)			Vertical (0U)	
Net Dimension L x W x H (mm)	17.01 x 8.50 x 1.75 (432 x 216 x 44.5)	17.01 x 8.50 x 1.75 (432 x 216 x 44.5)		49.02 x 2.20 x 3.54" (1245 x 56 x 90)	
Net Weight Lbs (Kgs)	8.82 (4.00)	8.82 (4.00)		9.26 (4.20)	
Ship Dimensions L x W x H (mm)	19.30 x 13.00 x 6.10" (490 x 330 x 155)	19.30 x 13.00 x 6.10" (490 x 330 x 155)		53.50 x 8.70 x 4.30" (1360 x 220 x 110)	
Ship Weight Lbs (Kgs)	10.14 (4.60)	10.14 (4.60)		11.02 (5.00)	
<b>REGULATORY COMPLIANCE</b>					
Safety/Approvals	ETL, IEC 62368-1, NOM, CE, FCC Class B, RoHS2 (EU Directive 2011/65/EU & 2015/863/EU)				

Specifications are subject to change without prior notice.

## 8. Obtaining Service

For Technical Support on the Web, please visit the Support section of our Web site or visit our online Discussion Forum.

1. Verify there are no tripped circuit breakers. A tripped circuit breaker is the most common issue.
2. Call your dealer for assistance. If you cannot reach your dealer or if they cannot resolve the issue, call our Technical Support department at: (972) 446-7363 or send an email to support@minutemanups.com or visit our Web site at www.minutemanups.com/support. Before calling the Technical Support, Department have the following information available:
  - a) Contact name and address.
  - b) Where and when the unit was purchased.
  - c) All of the model information about your unit.
  - d) The serial number of your unit.
  - e) Any information on the failure, including LEDs that may be illuminated or error messages displayed.
  - f) A description of the protected equipment including model numbers, if possible.
  - g) A technician will ask you for the above information and if possible, help solve the issue over the phone. If the unit requires factory service, the Technical Support Representative will issue you a Return Material Authorization Number (RMA #). **NOTE: We must have the model number and the serial number of the product to issue an RMA #.**
  - h) If the unit is under warranty, the repairs will be done at no charge. If the unit is not under warranty, there will be a charge for the repair.
3. Pack the unit in its original packaging. If the original packaging is no longer available, ask the Technical Support Representative about obtaining a new set. It is important to pack the unit properly to avoid damage in transit. Never use Styrofoam beads for a packing material.
  - a) Include a letter with your name, address, daytime phone number, RMA number, a copy of your original sales receipt, and a brief description of the problem.
4. Mark the RMA # on the outside of all packages. The factory cannot accept any package without the RMA # marked on the outside of the package.
5. Return the unit by insured prepaid carrier to:

Para Systems Inc.  
MINUTEMAN UPS  
1809 W. Frankford Road, Suite 150  
Carrollton, TX 75007  
ATTN: RMA # \_\_\_\_\_

## 9. Limited Product Warranty

Para Systems, Inc. (Para Systems) warrants this equipment, when properly applied and operated within specified conditions, against faulty materials or workmanship for a period of three (3) years from the date of purchase. For equipment sites within the United States and Canada, this warranty covers depot repair or replacement of defective equipment at the discretion of Para Systems. Depot repair will be from the nearest authorized service center. The customer pays for shipping the product to Para Systems. Para Systems pays ground freight to ship the product back to the customer. Replacement parts and warranty labor will be borne by Para Systems. For equipment located outside of the United States and Canada, Para Systems only covers faulty parts. Para Systems products that are depot repaired or replaced pursuant to this warranty shall only be warranted for the unexpired portion of the warranty applying to the original product. This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase.

The warranty shall be void if (a) the equipment is damaged by the customer, is improperly used, is subjected to an adverse operating environment, or is operated outside the limits of its electrical specifications; (b) the equipment is repaired or modified by anyone other than Para Systems or Para Systems approved personnel; or (c) has been used in a manner contrary to the product's User's Manual or other written instructions.

Any technical advice furnished before or after delivery in regard to use or application of Para Systems' equipment is furnished without charge and on the basis that it represents Para Systems' best judgment under the circumstances, but it is used at the recipient's sole risk.

EXCEPT AS PROVIDED HEREIN, PARA SYSTEMS MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Some states do not permit limitation of implied warranties; therefore, the aforesaid limitation(s) may not apply to the purchaser.

EXCEPT AS PROVIDED ABOVE, IN NO EVENT WILL PARA SYSTEMS BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Specifically, Para Systems is not liable for any costs, such as labor for on-site installation, on-site maintenance or on-site service, lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, cost of substitutes, claims by third parties, or otherwise. The sole and exclusive remedy for breach of any warranty, expressed or implied, concerning Para Systems' products and the only obligation of Para Systems hereunder, shall be depot repair or replacement of defective equipment, components, or parts; or, at Para Systems' option, refund of the purchase price or substitution with an equivalent replacement product. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

No employee, salesman, or agent of Para Systems is authorized to add to or vary the terms of this warranty.

Please go to our web site at [www.minutemanups.com/support](http://www.minutemanups.com/support) to fill out the Warranty Registration.