

AP-S15HRIP

15A IP LAN Controlled AC Power Distribution & Conditioner with Local & Remote Monitoring



Features

- 15A Rack Mount Power Conditioner with LAN Network Monitoring & Control
- On-board IP Address Display
- IP Discovery PC Software
- Circuit Breaker Protection @ 15A
- 6 Total AC Outlets
 - 5 Rear Panel Programmable Switched Outlets
 - 1 Front Panel Unswitched Convenience Outlet
- Individual Outlet On / Off Manual switch and LED Indicator (Enable / Disable)
- Removable 15A IEC Power Cord with Retainer Bracket
- AC Mains RFI Noise Filtering & Surge Protection
- Earth Ground Fault Connection Indicator
- Web User Interface
- DHCP or Static IP Addressable
- Voltage, Current, Temperature and Humidity Monitoring Capability
- Over Voltage, Current, Temperature and Humidity Alarm Setting
- Each Outlet Can be Individually Managed Remotely
- User Definable Names for Each Outlet
- User Definable Delay Time and Sequence
- Temperature Setting for AC Fan Activation
- Fault Log with Reporting
- Fault Reporting GPIO Port
- Password Protection
- Individual Outlet Auto Ping Reset
- User Definable 24 / 7 Schedules of Individual Outlets to Switch Devices On or Off
- 3-Meter Humidity / Temperature Probe
- AP-LEDIP Display Panel Shows Voltage, Current, Temperature, Humidity and IP Address

Applications

The AP-S15HRIP was designed with features to be used in a variety of applications. It can be used for AC distribution or for system power and protection against voltage surges or dropouts. The AP-S15HRIP is ideal for systems that need to be powered On or Off at specific times to conserve energy or to monitor the system for faults and operability. It can also be used for power conditioning and surge protection. The following are examples of applications where the AP-S15HRIP can be used:

- Office Buildings
- Restaurants
- Houses of Worship
- Educational Facilities
- Theaters
- Industrial Applications

General Description

The AP-S15HRIP half-rack width power conditioner with LAN monitoring & remote control for AC power distribution management. The AP-S15HRIP features a local display and a web based user interface (UI) that can monitor voltage, current, temperature and humidity. Through the UI, alarms can be set to alert users when a fault condition has occurred via the network UI or fault contacts. The AP-S15HRIP's five rear outlets are programmable and can be scheduled to sequence On / Off individually or in groups on a 24-hour / 7-day schedule. Each AC outlet has a front panel LED status indicator that can also be used to manually turn the outlet On or Off. This feature can be disabled via the UI for increased security. A front panel unswitched AC outlet is also included.

The AP-S15HRIP utilizes the AP-LEDIP remote display to visually show the system's AC power and environmental status, as well as the unit's assigned IP address. The AP-LEDIP can be placed within 10ft of the AP-S15HRIP. There is also an IP discovery software to help identify AtlasIED IP power strips connected to the network. The AP-LEDIP also provides a visual reference of the voltage, current, temperature or humidity data within the rack in real time. The external temperature / humidity probe monitors rack climate conditions to activate a cooling system if needed. Programmable alarm settings are easily configured with fault logs and fault reporting via the UI. The unit or individual outlets can be tested or monitored for on active status via the network Auto Ping Reset feature.

The AP-S15HRIP features noise filtering for unwanted Radio Frequency Interference (RFI) that is commonly introduced into AC lines by nearby radio transmitters or wireless products that commonly deteriorate video signals and that can be heard as static in audio signals. Unstable AC Mains voltage is one of the main reasons for equipment failure. The amount of energy that can be injected into the power system can be immense with voltages reaching 6kV or amperage peaks of 3000A. These spikes are very fast and usually only last for a very short period of time. The AP-S15HRIP's circuitry is very fast and can suppress unwanted energy within a nanosecond response and sustain the suppression up to 2 milliseconds, thus ensuring virtually trouble-free protection. If damage to the suppression circuitry occurs, the AC fault LED will illuminate. The AP-S15HRIP is designed to allow the installer to select the power cord length that is required for the installation. A removable 2m, 14-gauge IEC power cord with a retainer bracket is supplied with the unit.

The AP-S15HRIP is designed to be mounted in a half-width rack (Note 2), but can also be rack mounted into standard 19" equipment racks by using the optional PA702-RMK rack mount kit. This kit allows you mount an AP-S15HRIP by itself or in conjunction with another AtlasIED half width rack product such as the DPA-102PM, PA40G / PA60G, or MA40G / MA60G in a 19" 1RU space.

APS15HRIP System Diagram Example

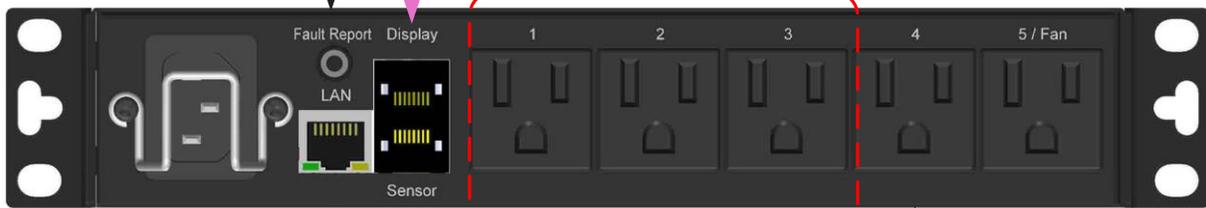
Fault Report connected to Texas Tough Rack will Change Logo Color when Fault is detected



AP-LEDIP Included Display

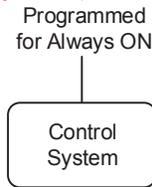


EQUIPMENT RACK



Temperature Probe

Outlets 1 thru 3 - Group Sequenced Programmed



Programmed for Always ON

Programmed for Fan using Temp Probe



AtlasIED EFP3-2 Dual Fan Rack Mount

Atlas IED IP Power Strip Interface

Welcome, Admin

AC Outlets Sequence ON/OFF

Temperature 73.4°
Humidity 51.0%
Voltage 113.8V
Current 0.0A

Status

- Panel Outlet On/Off Switches Enable
- Device Type AP-S15HRIP
- Unit Name AP-S15HRIP
- Grouped Outlets Enable
- Watts 0.00W
- Temperature Alarm Enable
- Humidity Alarm Enable
- Current Alarm Enable
- Voltage Alarm Enable
- Incoming AC Mains Spike Protection Enable

NOTE: When Green, protection is OK. When Red service is required.

Firmware Version FW_AP-S15HRIP_V1.05_121918.a.bin

Outlet Status & Manual On/Off

- Outlet 1 On
- Outlet 2 On
- Outlet 3 On
- Outlet 4 On
- Outlet 5 On

NOTE: Individual outlets can be turned ON / OFF by selecting them. When the Power is reset, the group programming will apply if enabled.

Atlas IED IP Power Strip Interface

Welcome, Admin

Alarm

Temp Alarm Enable

Temperature (°F)

Humidity Alarm Enable

Humidity (%)

Current Alarm Enable

Current (A) Average Current

Voltage Alarm

Over Voltage (V)

Under Voltage (V)

Voltage Alarm Recovery Auto Recover Manual Reset

NOTE: When the voltage alarm is enabled and the over or under voltage settings is reached, the AC Outlets will shut OFF. If Auto Recover is selected, the unit will turn back ON when the voltage is stabilized. If Manual Reset is selected, the power switch will need to be manually reset once the voltage is stabilized.

Alarm Activation Log

- 2018/12/19/00:46:18-Lvo1
- 2018/12/19/00:45:09-Hvo2
- 2018/12/19/00:44:19-Hum1
- 2018/12/19/00:44:01-Temp
- 2106/02/06/22:28:51-Lvo1
- 2106/02/06/22:30:54-Surg
- 2106/02/06/22:30:52-Surg
- 2106/02/06/22:30:50-Surg
- 2106/02/06/22:30:48-Surg
- 2106/02/06/22:30:46-Surg

Atlas IED IP Power Strip Interface

Welcome, Admin

Scheduler

Day/Time NTP 12/19/2018 11:05:22

Time Zone Pacific

Daylight Savings Enable

NTP Server Enable

NTP Server 52.41.144.197

Group Outlets Schedule (Sequenced) Enable

Enter 24hr Clock Settings

On: 00:00 Off: 00:00

Weekday	M	T	W	TH	F	SA	SU
<input type="checkbox"/>							

Individual Outlet Scheduled Time

Enable	Outlet	On	Off	M	T	W	TH	F	SA	SU
<input type="checkbox"/>	Outlet 1	00:00	00:00	<input type="checkbox"/>						
<input type="checkbox"/>	Outlet 2	00:00	00:00	<input type="checkbox"/>						
<input type="checkbox"/>	Outlet 3	00:00	00:00	<input type="checkbox"/>						
<input type="checkbox"/>	Outlet 4	00:00	00:00	<input type="checkbox"/>						
<input type="checkbox"/>	Outlet 5	00:00	00:00	<input type="checkbox"/>						

NOTE 1: If the fan control is enabled, outlet 6 cannot be assigned to the group setting.

NOTE 2: If an outlet is assigned to a group setting, individual outlet schedule cannot be used.

Atlas IED **IP Power Strip Interface**

Welcome, Admin
 Status
 Alarm
 Scheduler
 Network Settings
 Configuration

Network Settings

Network Interface Save

Host IP Setting Static DHCP

Static IP

Mask

Gateway

Auto Ping Reset Save

Outlet 1

Outlet 2

Outlet 3

Outlet 4

Outlet 5

Auto Ping Intervals (min.)

NOTE: If the device that is plugged into Outlet 1--5 has an IP address and is on the same LAN as the AC power strip, the device address can be added to the output IP address section above. A ping will be sent to the unit to verify device connection to the LAN. If the device does not respond, the specific outlet will be recycled.

Password Save

Admin Password

Reboot Reboot

NOTE: Reboot does not affect the AC outlets.

Factory Default Reset

Atlas IED **IP Power Strip Interface**

Welcome, Admin
 Status
 Alarm
 Scheduler
 Network Settings
 Configuration

Configuration

Function Save

Panel Outlet On/Off Switches Enable

AC Fan Control Setting (Outlet 5) Enable NOTE: When enabled Outlet 5 cannot be assigned to a group or schedule.

Fan On Temp (*F)

Fan Off Temp (*F)

Sequence Delay Time (sec)

Display Module Setting

Display Module Temperature F / C

Grouped Outlets Enable

Unit & Outlet Name Save

Unit Name

Outlet Name 1

Outlet Name 2

Outlet Name 3

Outlet Name 4

Outlet Name 5

NOTE: Either unit name or outlet name is limited to 16 characters (A-Z, 0-9, no special characters).

Group Management Save

Group Assignment

Outlet 1 Assign

Outlet 2 Assign

Outlet 3 Assign

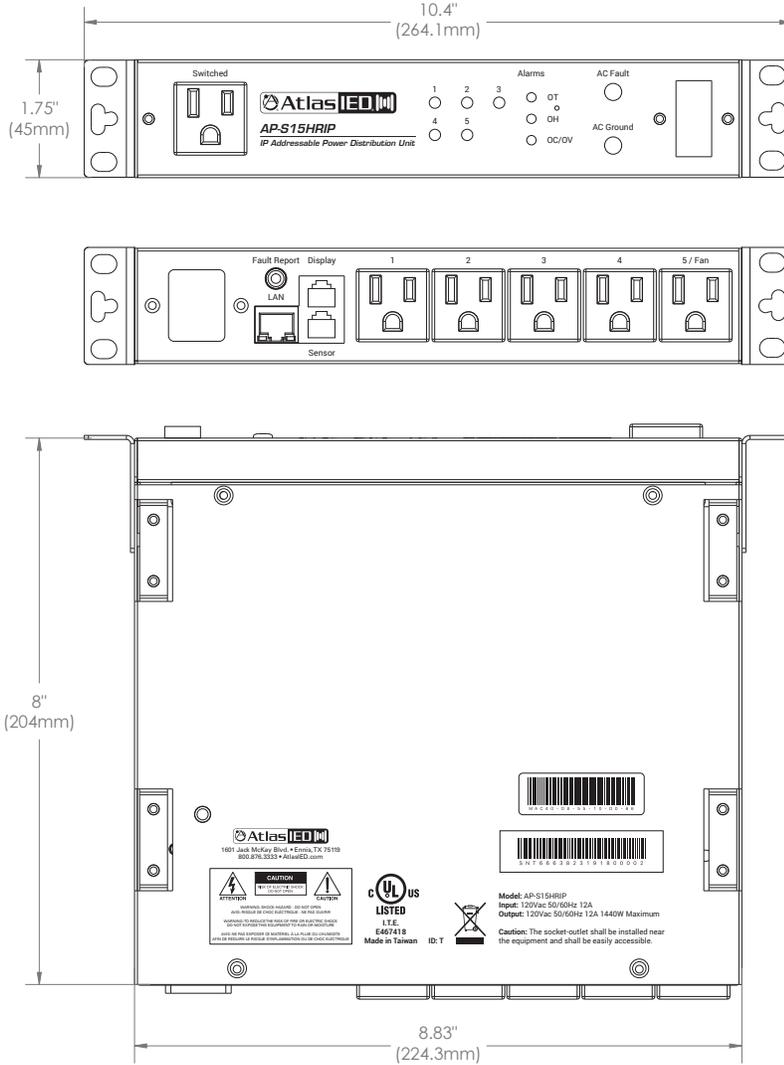
Outlet 4 Assign

Outlet 5 Assign

NOTE: If the fan control is enabled, outlet 5 cannot be assigned to the group setting.

NOTE: If an outlet is assigned to a group setting, individual outlet schedule will be removed.

Dimensional Drawings



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AP-LEDIP

This remote magnetic data display comes with a 10ft cable so it can be placed on the rack where data viewing is preferred. This display can show AC mains voltage, current, rack temperature and humidity. The preferred data value to be shown can be set in the WEB interface. The other readings can be accessed by pressing the data display viewing switch located on the front of the display. One of the main features is the display of the IP address assigned to the power strip. Press and hold the data display viewing button and the assigned IP address will scroll.



System	
Type	Networked AC Power Distribution Conditioner & Suppressor
Load Rating	Max Load 15A (1800W), Rated Load 12A (1440W)
Network Type	LAN (Local Area Network) (Note 1)
Front Panel	
Activation Switch	Rocker with Security Bar
Circuit Breaker	15A Resettable Power Switch
Outlet On / Off Switches	Momentary Manual
AC Outlets	NEMA5-15R Unswitched, Qty 1
Front Panel Indicators	
Power On Indicator	Power Switch LED, Red
Outlet Status Indicators	Green, Qty 5
Over Temperature Alarm Indicator	Red, Programmable Range 50° - 176°F , 10° - 80°C
Over Humidity Alarm Indicator	Red, Programmable Range 15 - 95%
Over Current / Voltage Alarm Indicator	Red, Programmable Range High - Voltage 100V - 140V, Under Voltage 80V- 120V
AC Fault Indicator	Red, Illuminates When Surge Protection is Damaged
AC Ground Indicator	Red, Illuminates When Earth Ground Is Bad
Rear Panel	
AC Outlets	NEMA5-15R Switched (Programmable), Qty 5 Note: Outlet 8 Can Be Used to Activate a Fan Triggered by Temperature Range of On: 51° - 176°F / Off: 50° - 175°F
AC Mains IEC Power Socket	IEC NEMA 5-15P 15A 1800W with Power Cord Retainer
LAN Port	RJ45, Ethernet Port
Temp / Humidity Port	RJ14, Temperature, Humidity Probe, 2M, Probe Included
Display Port	RJ25, for AP-LEDIP Display for Voltage, Current, Temperature, Humidity, IP Address
Fault Report Port	3.5mm Jack, Fault Reporting Contact Closure, Normally Closed & Opens During Fault State, Cable Included
GPIO Fault Relay Port	Fault Relay Interface, Temperature, Humidity, Over & Under Voltage, Over Current, Surge, Cable Included
User Interface and Configuration	
WEB Interface	HTTP Protocol, XML Commands Available
Status	Voltage, Current, Temperature, Humidity, Spike Protection, Ground Fault, Outlet Status
Alarms	Voltage Hi / Lo, Current, System Temperature, Humidity, Fault Log
Scheduler	24 / 7, Group Schedule or Individual Outlet Schedule
Network Settings	DHCP (default) or Static IP, Individual Outlet Auto Ping Reset (Note 1)
Sequence Delay	One Setting Between Outlets, 1 Second-99 Seconds
System Configuration	Outlet Naming, Group Assignment, Temperature Activated Outlet
Technical Data	
Max AC Mains Current	12A, 1440W
Operating Voltage	100VAC - 132VAC
Power Consumption	8-Watts
Noise Attenuation RFI	10dB @ 10kHz / 40dB @ 100kHz / 100dB @ 10MHz
Min. Spike Clamping Voltage	460VRMS @ 3,000A
Max. Spike Clamping Voltage	6000V, 1 nanosecond
Spike Clamping Voltage @ 100A	1250Vp for 20µs
Maximum Surge Current	6,500A
Energy Rating @ 2ms	600 Joules
Unit Operating Temperature Range	40° - 105°F, 5° - 40.5°C
Humidity Range	5% to 95% Relative Humidity
Fault Reporting	WEB, GPIO Contact Closure (Closed During Normal Operation, Opens During Fault Condition), API Commands

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Mechanical	
Chassis Finish	Black
Product Dimensions (HxWxD)	1.75" x 8.83" x 8" (45mm x 224mm x 204mm) - Width with Rack Ears 10.4" (267mm) (Note 2)
Shipping Dimensions (HxWxD)	3.5" x 12.12" x 11.5" (90mm x 308mm x 290mm)
Unit Weight	3.5 lbs. (1.6kg)
Shipping Weight	5.5 lbs. (2.5kg)
Agency Approvals	
Safety Listing	North America UL1449, UL60950-1, CAN/CSA C22.2 No. 60950-1
Package Contents	
AP-S15HRIP	Qty 1
AP-LEDIP Display	Qty 1
Temperature / Humidity Probe	Qty 1
Fault Interface Probe	Qty 1
2m 14-Gauge IED Power Cord	Qty 1
IEC Power Cord Retailer Bracket	Qty 1

Note 1: The AP-S15HRIP meets the Californian law SB-327. Each unit is shipped with a unique password that can be changed for accessing the device over the network. The AP-S15HRIP is a LAN (Local Area Network) device and requires a firewall or VPN for secure connection outside the network operation. AtlasIED recommends consulting an IT specialist for best network security practices before installation.

Note 2: The AP-S15HRIP fits most rack cabinets that are classified as half-width. There are no industry standards for these types of racks and rack widths may vary between manufactures. AtlasIED recommends checking the distance between the rack rail opening before proceeding. If the AP-S15HRIP is to be mounted into a 19" rack, it can be mounted with any AtlasIED 1/2 RU products but requires the PA702RMK rack mount kit.

Architect and Engineer Specifications

The AtlasIED power conditioner and surge protector with LAN monitoring & remote control shall be AtlasIED model AP-S15HRIP. The AP-S15HRIP shall provide up to 1440-Watts of 120V AC power 6 total AC outlets: 5 rear programmable panel outlets and 1 front panel unswitched outlet.

The AP-S15HRIP shall have a web based user interface (UI). Each unit shall ship with a unique password for accessing a network to comply with the California law SB-327. The AP-S15HRIP shall monitor voltage, current, plus temperature and humidity via an external probe. The AP-S15HRIP shall have alarms set to alert users when a fault condition has occurred via the network UI or via the rear fault contacts. The AP-S15HRIP shall have the ability to program a scheduler to sequence outlet activation as a group or individually. Sequence On/Off delay between outlets shall be adjustable from 1 to 99 secs.

The AP-S15HRIP shall utilize PC based IP discovery software to identify a unit IP address within a LAN. The assigned IP address is also shown via the included AP-LEDIP remote display. Voltage, current, temperature or humidity shall be monitored via the UI. The external temperature / humidity probe shall measure the rack climate conditions to activate a cooling system if needed. Each outlet shall be tested or monitored for

active status via a network Auto Ping Reset feature.

The AP-S15HRIP shall feature noise filtering for unwanted Radio Frequency Interference (RFI). The unit shall have circuit breaker protection at 15A. The AP-S15HRIP front panel shall include AC Ground, AC Fault and Outlets Active indicators and protective security bar over power switch. Finish shall be textured black epoxy and dimensions shall be of a half rack design 1.75"H x 8.83"W x 8"D (45mm x 224mm x 204mm) to mount into 1RU of space. The AP-S15HRIP shall come with rack ears for half rack mounting in half-width equipment racks. The PA702RMK shall be the optional kit for 19" rack mounting.

The AP-S15HRIP complies with UL1449, UL60950-1 and CAN/CSA C22.2 No. 60950-1.

The AtlasIED power conditioner with LAN monitoring & remote control shall be the AP-S15HRIP.