



# ATLAS™

130  
48  
24

VOLTS

INDUSTRIAL STATIONARY  
POWER CHARGERS

MODULAR FLOAT BATTERY CHARGERS & POWER SUPPLIES

## FEATURES

- Modular, Redundant Platform
- High Availability / Uptime Architecture
- Industrial Construction
- Natural Convection Cooled (No Fans)
- Intelligent Power Modules (iPMs)
- Hot Swappable
- 130, 48, and 24 Vdc Systems
- 4 and 8 Slot Chassis
- Low DC Output Ripple
- Battery Eliminator Functionality Standard
- High Efficiency and CEC Compliant
- 100-240 Vac Universal Single-Phase AC Input
- Wide DC Output Voltage Ranges
- Ethernet Communication Standard
- Sophisticated Alarming and Logging
- Battery Temperature Compensation
- Remote Voltage Sensing
- UL, cUL/CSA, NEMA PE 5, and CE
- Made in the USA



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MODULAR FLOAT BATTERY CHARGERS & POWER SUPPLIES

## FEATURES

- Industrial switch mode (high frequency) technology
- 480W or 400W hot-swappable Intelligent Power Modules (iPMs)
  - 130 Vdc, 480 W, 4 A
  - 48 Vdc, 480 W, 10 A
  - 24 Vdc, 400 W, 10 A
- Multiple iPMs in a single chassis provide redundancy (N+1, N+2, etc) and will continue to operate if the User Interface Module (UIM) fails for high availability/uptime applications
- UIM (system controller) is AC / DC powered for continued operation without AC
- Heavy-duty construction for industry-leading ruggedness and reliability
- Conformal coated circuit boards for protection from moisture and other contamination
- High energy efficiency of > 93% at 240 Vac and > 91% at 120 Vac and full load
- Low DC output ripple - battery eliminator option standard
- Universal AC input: 100-240 Vac, 50-200 Hz, single-phase
- Adjustable brackets for wall, shelf, floor, or EIA 19-inch and 23-inch rack (front or rear) mounting
- Flexible battery types - Flooded Lead-Acid (FLA), Valve Regulated Lead-Acid (VRLA), Nickel-Cadmium (Ni-Cd)
- Battery temperature compensation with adjustable limits
- Alarms can be individually enabled / disabled, assigned a delay, assigned a priority, and assigned to the summary alarm relay
- Form C, dry contact summary alarm relay
- Logging of up to 10,000 history records, downloadable as a CSV, JSON, XML, TXT, SQL, or EXCEL
- Ground fault detection with adjustable trigger level (130 and 48 Vdc)
- Ethernet communication standard for field or remote monitoring, access to logging data, and programming (local only using the Confirm Local Presence button for security)
- Confirm Local Presence button for extreme network security
- SNMP alarming and NTP date/time synchronization via Ethernet
- Real-time clock with battery backup
- Internal web server uses a modern, responsive framework
- Full AC input and DC output protection
- LED status indicators
- Digital display for DC output voltage and current
- UIM located behind a lockable access cover for security

### Summary Alarm Relay Terminals

Form C, dry contacts. Configurable per alarm via the web server.

### Battery Temperature Sensor Connector

Enable / disable, compensation value, min compensation limit, and max compensation limit configurable via the web server.

### Volts Per Cell Rotary Switches

Used to manually set the float voltage per cell. Not used if the "Number of Cells" rotary switches are set to "00" which enables float voltage control via the web server.

### Alarm LED

Red LED. Provides notification of system alarms and faults.

### UIM Status LED

Green LED. Provides the status of the UIM.



### Ethernet Connector

Provides local or remote access to the internal charger web server via a standard Internet browser. The web server is used to check the status of the charger (DC amps, AC volts, etc), control the charger (on / off, manual equalize, etc), configure settings, alarms, and view / downloaded the history log. NTP time synchronization and SNMP alarming are also supported.

### Number of Cells Rotary Switches

Used to manually set the number of battery cells. Setting to "00" enables control via the web server.

### AC Present LED

Green LED that is on when AC power is present.

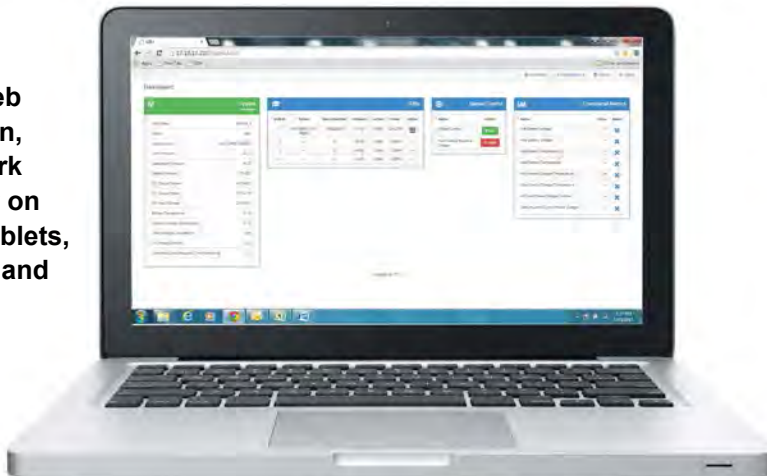
### Remote DC Voltage Sense Connector

Enable / disable using the web server.

### Confirm Local Presence Button & LED

Pressing the button enables changes to be saved via the web server for a set amount of time. This ensures that the changes are being made locally and provides the highest level of possible security.

The Atlas internal web server uses a modern, responsive framework for attractive display on smart phones and tablets, in addition to laptop and desktop computers.



# SPECIFICATIONS

## AC Input

<b>Voltage range, rated</b>	100-240 Vac
<b>Voltage range, operating</b>	90-264 Vac; < 100 Vac: reduced power
<b>Frequency, rated</b>	50-200 Hz
<b>Frequency, operating</b>	45-205 Hz
<b>Phase</b>	Single-phase
<b>Efficiency</b>	> 91%, 120 Vac, full load; > 93%, 240 Vac, full load
<b>Power factor</b>	> 0.98, 120 Vac, full load; > 0.96, 240 Vac, full load
<b>Protection</b>	Current limit, surge, transient, under voltage, over voltage

## DC Output

<b>Voltage range</b>	
24 Vdc	10.00-40.00 Vdc
48 Vdc	30.00-61.00 Vdc
130 Vdc	75.00-150.00 Vdc
<b>Power, maximum, per iPM</b>	
24 Vdc	400 W
48 Vdc, 130 Vdc	480 W
<b>Current, maximum, per iPM</b>	
24 Vdc, 48 Vdc	10.0 A
130 Vdc	4.0 A
<b>Current, rated at 2.25 V/cell, per iPM</b>	
24 Vdc	Rated current: 10.0 A, Max: 10.0 A
48 Vdc	Rated current: 8.1 A, Max: 10.0 A
130 Vdc	Rated current: 3.3 A, Max: 4.0 A
<b>Protection</b>	Current limit, short circuit, reverse polarity, surge, transient

## Environmental

<b>Operating temperature</b>	
24 Vdc, 48 Vdc, 130 Vdc	-40 °C to 70 °C (-40 °F to 158 °F); > 50 °C: may reduce power
<b>Storage temperature</b>	-55 °C to 85 °C (-67 °F to 185 °F)
<b>Operating humidity</b>	0-95%, non-condensing
<b>Storage humidity</b>	0-95%, non-condensing

## User Interface

<b>Communication</b>	Ethernet; 10/100BASE-TX; auto crossover, auto MDI-X; RJ45 connector; support for TCP / IP, NTP, and SNMP Traps; internal web server; ability to be used for networked comm or direct comm (direct connection to a laptop)
<b>DC voltage switches</b>	2 switches for Number of Cells; 3 switches for Volts per Cell
<b>LEDs</b>	
<b>UIM</b>	4 single-color; AC Present, Alarm, UIM Status, Confirm Local Presence
<b>iPM</b>	1 tri-color; DC Output, Fault
<b>Front panel</b>	3 single-color; AC Present, Alarm, UIM Status
<b>Digital display</b>	DC output voltage and current
<b>Button</b>	Confirm Local Presence
<b>Battery temp comp</b>	Yes (sensor optional)
<b>Remote DC voltage sense</b>	Yes (wiring optional)
<b>Alarming</b>	
<b>Alarms</b>	Individually enable / disable, assign a delay, assign a priority, assign to the summary alarm relay
<b>Summary alarm relay</b>	Form C, dry contact, 1 A at 30 Vdc, 0.5 A at 120 Vac
<b>Ethernet alarming</b>	SNMP Traps
<b>Logging</b>	Up to 10,000 events (alarms, faults, AC on / off)

## Mechanical

<b>Cooling</b>	Natural convection (no fans)
<b>Protection</b>	Conformal coated circuit boards
<b>AC / DC terminals</b>	Screw terminal block
<b>Dimensions (WxHxD)</b>	Including standard brackets
<b>4-slot chassis</b>	18.93 x 17.71 x 12.79 in
<b>8-slot chassis</b>	18.93 x 30.50 x 14.31 in
<b>Mounting</b>	Wall, shelf, floor, EIA 19-inch and 23-inch rack (front or rear)
<b>Lockable access cover</b>	

## Certifications (Pending)

UL 1012 and cUL/CSA equivalent; NEMA PE 5; FCC Part 15, Class A; CEC Appliance Efficiency Regulations, Title 20; EN emissions, immunity, safety; CE certified

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