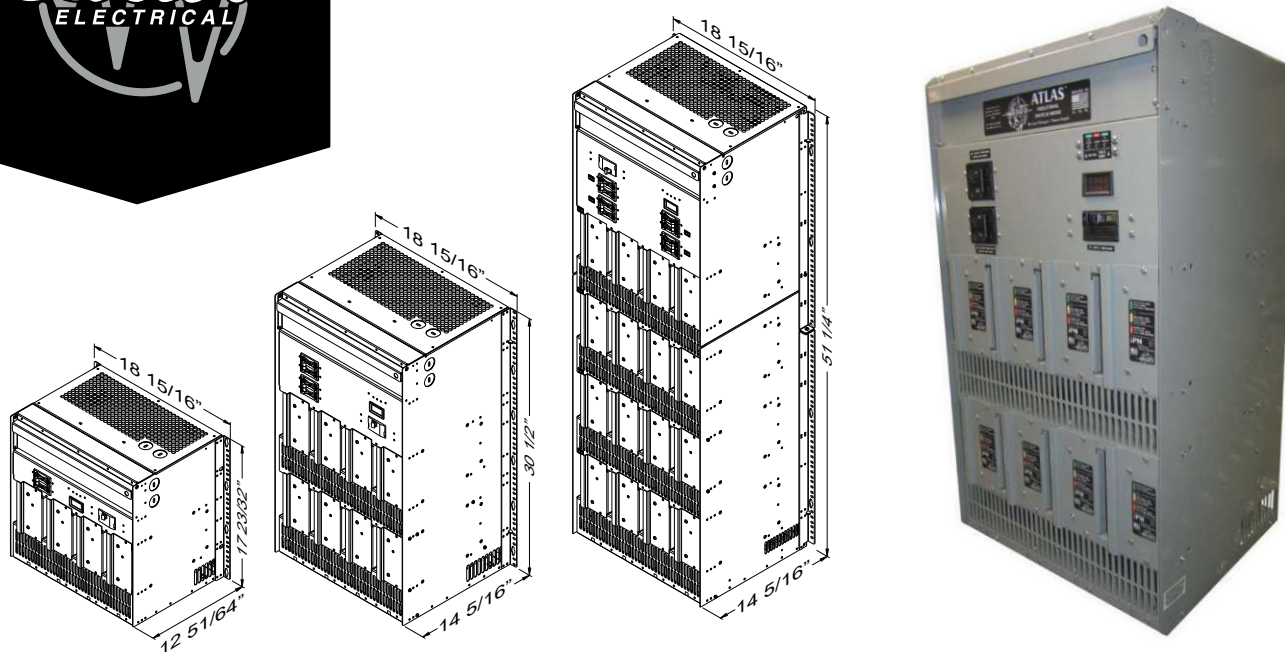




# ATLAS™ STATIONARY POWER CHARGERS

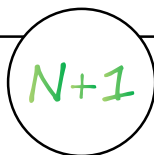


Lester Electrical proudly introduces our Atlas industrial stationary power chargers. This new line of chargers includes the most comprehensive feature set and best performance we have delivered in our sixty plus year history as a company. Designed by our team of expert Lester Electrical engineers with the durability and reliability required for utility, rail and genset applications.



## HOT-SWAPPABLE

Individual iPMs are hot-swappable for high availability and uptime architecture providing easy maintenance without interrupting service.



## REDUNDANCY

Modular platform featuring 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.



## SECURITY

Internal web server uses a modern, responsive framework. Highest security standards maintained with Confirm Local Presence button featured on front of charger. Requires local access to make changes to charger settings.



## SOPHISTICATED ALARMING

Alarms can be individually enabled / disabled, assigned a delay, assigned a priority and assigned to the summary alarm relay. SNMP alarming and NTP date / time synchronization via Ethernet.



## INDUSTRIAL CONSTRUCTION

The Atlas line of chargers are all manufactured with heavy-duty construction for industry-leading ruggedness and reliability. They feature natural convection cooling (no fans), low DC output ripple and Lester Electrical proprietary charging algorithms.



## AMERICAN MADE

The Atlas is proudly designed and manufactured in the U.S.A. at our manufacturing plant in Lincoln, Nebraska. Quality is built into every product made for our clients.

# 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>Current, maximum</b>	< 5.4 A per iPM
<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, per iPM</b>	24 Vdc	Rated current: 10.0 A, Max: 10.0 A
	48 Vdc	Rated current: 8.1 A, (at 59Vdc), Max: 10.0 A
	130 Vdc	Rated current: 3.3 A, (at 145Vdc), Max: 4.0 A
<b>Protection</b>	Current limit, short circuit, reverse polarity, surge, transient	
<b>Battery types</b>	Flooded Lead-Acid (FLA), Valve Regulated Lead-Acid (VRLA), Nickel-Cadmium (Ni-Cd)	

## ENVIRONMENTAL

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

## SAFETY/REGULATORY

<b>Efficiency</b>	CEC Appliance Efficiency Regulations, Title 20
<b>Safety / Emissions</b>	UL 1012 and cUL equivalent; NEMA PE 5; FCC Part 15, Class A; EN emissions, immunity, safety; CE Certified (UL pending: 16-slot chassis)

## USER INTERFACES

<b>Communication</b>	Ethernet; 10/100BASE-TX; 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 with crossover cable); Modbus AUX dry contact alarm	
<b>DC voltage switches</b>	2 switches for Number of Cells; 3 switches for Volts per Cell	
<b>LEDs</b>	UIM	4 single-color; AC Present, Alarm, UIM Status, Confirm Local Presence
	iPM	1 tri-color; DC Output, Fault
	Front panel	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>	Alarms	Individually enable / dis- able, assign a delay, assign a priority, assign to the summary alarm relay
	Summary alarm relay	Form C, dry contact, 1 A at 30 Vdc, 0.5 A at 120 Vac
	Optional	Modbus Dry contact alarm board (7)
	Ethernet alarming	SNMP Traps
<b>Logging</b>	Up to 10,000 events (alarms, faults, AC on / off) downloadable as a CSV, JSON, XML, TXT, SQL or EXCEL	

## 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 (LxHxW) in inches</b>	4-slot chassis	18.83 x 17.71 x 12.79
	8-slot chassis	18.83 x 30.50 x 14.31
	16-slot chassis	18.83 x 51.25 x 14.31
<b>Mounting</b>	Wall, shelf, floor, EIA 19-inch and 23-inch rack (front or rear)	
<b>Weight*</b>	4-slot chassis	41 LBS.
	8-slot chassis	77 LBS.
	16-slot chassis	112 LBS.
	iPM	6 LBS.
<b>Lockable access cover</b>	Mechanical lock and pad lock compatible.	

\*Weights based on configuration

