



ATLAS™ MODULAR RAILWAY CHARGERS

BATTERY CHARGERS AND DC POWER SUPPLIES



AVAILABLE MODELS

12V
20/40/60/80A

12-24V
10/20/30/40A

SIGNALING • CROSSINGS • COMMUNICATIONS • DEFECT DETECTORS • SWITCH MACHINES

N+1

REDUNDANCY

Modular platform featuring multiple iPMs in a single chassis provides redundancy (N+1, N+2, etc). iPMs will continue to operate if the User Interface Module (UIM) becomes inoperable for high availability and uptime applications.



HOT-SWAPPABLE

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



SECURITY

Internal web server uses a modern, responsive framework. Highest security standards maintained with a physical Confirm Local Presence button. Local access is required to make changes to battery charger settings.



SOPHISTICATED ALARMING

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



INDUSTRIAL CONSTRUCTION

The Atlas line of battery chargers are all designed and manufactured with heavy-duty construction for industry-leading ruggedness and reliability. They feature natural convection cooling (no fans), conformal coated electronics, and high MTBF ratings.



AMERICAN MADE

Atlas battery chargers are 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.

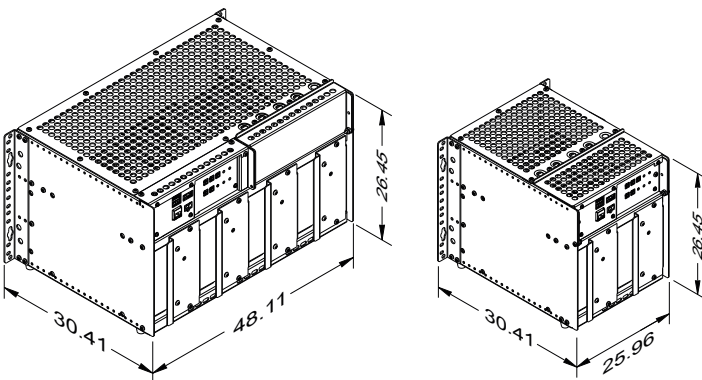
SPECIFICATIONS

AC INPUT	
Voltage range, rated	100-240 Vac
Voltage range, operating	90-264 Vac (< 100 Vac: reduced power)
Frequency, rated	50-200 Hz
Frequency, operating	45-205 Hz
Phase	Single-phase
Current, maximum, per iPM	5 A
Efficiency	> 91%, 120 Vac, full load; > 93%, 240 Vac, full load
Power Factor	> 0.98, 120 Vac, full load; > 0.96, 240 Vac, full load
Protection	Current limit, surge, transient, under voltage, over voltage

DC OUTPUT		
Voltage range	12 Vdc	1.00-20.00 Vdc
	12-24 Vdc	10.00-40.00 Vdc
Power, maximum, per iPM	400 W	
Current, maximum, per iPM	12 Vdc	20.0 A
	12-24 Vdc	10.0 A
Protection	Current limit, short circuit, reverse polarity, surge, transient	
Battery types	Flooded Lead-Acid (FLA), Valve Regulated Lead-Acid (VRLA), Nickel-Cadmium (Ni-Cd), Lithium-Ion	

ENVIRONMENTAL	
Operating temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Storage temperature	-55 °C to 85 °C (-67 °F to 185 °F)
Operating humidity	0-95%, non-condensing
Storage humidity	0-95%, non-condensing

RELIABILITY	
MTBF	Telcordia SR-332, MIL-STD-267, 40 °C ambient
UIM	964,000 hours
iPM	738,700 hours at full output



USER INTERFACES		
Communication	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)	
DC voltage switches	2 switches for Number of Cells; 3 switches for Volts per Cell	
LEDs	UIM	4 single-color; AC Present, Alarm, UIM Status, Confirm Local Presence
	iPM	1 tri-color; Charging, Equalizing, Fault/Limit
Display, DC output voltage & current	Optional: 4-slot chassis	
Button	Confirm Local Presence	
Battery temp comp	Yes (sensor optional)	
Remote voltage sensing	Yes (wiring optional)	
Alarming	Alarms	Individually enable / disable, 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
	Ethernet alarming	SNMP Traps
Logging	Up to 10,000 events (alarms, faults, AC on / off); downloadable as a CSV file	

MECHANICAL		
Cooling	Natural convection (no fans)	
Protection	Conformal coated circuit boards	
AC / DC terminals	Terminal posts	
Dimensions (WxHxD)	2-slot chassis	25.96 x 26.45 x 30.41 cm 10.22 x 10.41 x 11.97 in
	4-slot chassis	48.11 x 26.45 x 30.41 cm 18.94 x 10.41 x 11.97 in
Mounting	Wall, shelf, floor, EIA 19-inch and 23-inch rack (front or rear)	
Weight (approx)	2-slot chassis	5.9 kg. (13 lbs.)
	4-slot chassis	10.0 kg. (22 lbs.)
	iPM	2.8 kg. (6 lbs.)

SAFETY/REGULATORY	
Efficiency	CEC Appliance Efficiency Regulations, Title 20
Safety / EMC	AREMA; EN emissions, immunity, safety (pending); CE Certified (pending); UL 1236 and cUL equivalent (pending); FCC Part 15, Class A

Specifications are subject to change without notice.
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