



EQ 750



Intelligent design for charging AGM, GEL, Flooded and Lithium batteries, the EQ2000 Charger is available in on- and off-board configurations. Optional CAN bus communication ensures seamless machine integration and AC/DC cabling is completely customizable.

Main applications:



High Reliability

Engineered using design for reliability. Validated for long service life in harsh operating conditions. Tested to perform reliably and durably in automotive applications. Manufactured in a world class facility specializing in high reliability solutions.



Premium charging Quality

Charge profiles to precisely charge AGM, GEL, Flooded and Li-ion batteries. Developed in PowerFirst's battery lab to balance charge time, battery life and application requirements.



USB datalog & Machine Integration

Assists machine troubleshooting with built-in charge cycle tracking. Download data / upgrade software through USB host port. Optional CAN bus communication enables deep machine integration, diagnostics and control.



Global + Efficient

Capable of operating reliably on any single-phase grid worldwide. High-efficiency performance for electricity savings and shorter charge times. Active cooling enables optimal peak performance.

EQ 2000 Charger Specifications

DC Output	24 VDC	36 VDC	48 VDC
Maximum DC output voltage	36 V	54 V	72 V
Maximum DC output current	50 A	40 A	25 A
Maximum DC output power	2000 W		
Deep discharge recovery (minimum voltage)	16 V	24 V	32 V
Maximum C3 interlock current	7 A		
Battery type	Lead acid (wet / AGM / gel), lithium		
Reverse polarity	Electronic protection with auto-reset		
Short circuit	Electronic current limit		

AC Input	
AC input voltage range	85-264 VAC
Nominal AC input voltage	100-240 VAC
Nominal AC input frequency	50 / 60 Hz
Maximum AC input current	13 A
Nominal AC input current	13 A @ 100 VAC 10 A @ 240 VAC
Power factor	>0.99 @ 120 VAC >0.98 @ 230 VAC

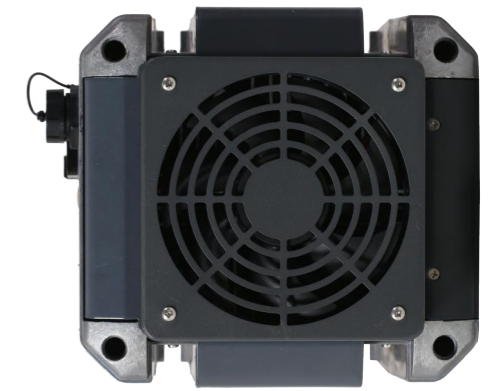
Regulatory	
Efficiency	90% at full load, 120 VAC, 48 VDC 92% at full load, 240 VAC, 48 VDC California Energy Commission (CEC) compliant
Safety (LVD)	UL1564, CSA 107.2, EN 60335-2-29
Emissions (EMC)	FCC Part 15 / ICES 003 Class A, EN55014-1, EN 61000-3-2
Immunity (EMC)	EN 6100014-2, EN 61000-4-11, EN 61000-6-2

Mechanical	
Dimensions	L195 x W180 x H190 mm
Weight	5.2 kg
AC input connector	IEC320 / C14 (requires country-specific cord)
DC output connector	M6 threaded fasteners for ring terminals (field replaceable)
Service port	Sealed (IP66) USB 2.0 Host Port (Type A) with dust cover
Mounting holes	8.4 mm (1/3") diameter slots
Cooling	Active cooling with fan (Variable speed, field serviceable, field replaceable)

Environmental	
Enclosure	IP66 (NEMA4)
Mechanical shock & vibration	GMW3172
Corrosion & humidity	
Thermal fatigue	
Operating temperature	-20°C to +40°C Derated at >40°C
Storage temperature	-40°C to +85°C

Visit epowerfirst.com/charger/EQ-family/ to view the complete product datasheet.

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Highlighted Features:

- Optional CAN bus, RS485, FC, Wi-Fi, Bluetooth communication for machine integration or lithium BMS.
- User friendly LED indicators for AC source, battery status, charging, error.
- Field programmable with up to 30 charge profiles
- Auto-recharge for low voltage in maintenance mode
- OEM customizable & field replaceable AC/DC cabling
- Additional portable handle available

