### **PowerFirst**

A Global Leader in Charger Manufacture

















# Mission 720











Intelligent design for charging AGM, GEL, Flooded and Lithium batteries, the Mission 720 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:



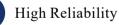


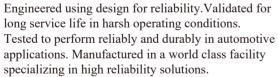


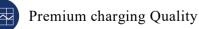












Charge profiles to precisely charge AGM, GEL, Flooded and Li-ion batteries. Developed in PowerFirst's battery lab to balance charge time,battery life and application requirements.



### 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.

















## Mission 720

### **Charger Specifications**

DC Output	24 VDC	36 VDC	48 VDC
Maximum DC output voltage	36 V	54 V	72 V
Maximum DC output current	30 A	20 A	15 A
Maximum DC output power	720 W		
Deep discharge recovery (minimum voltage)	1.2 V	1.8 V	2.4 V
Maximum C3 interlock current	10 A	2 A	0.5 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	85-270 VAC		
Nominal AC input voltage	100-240 VAC		
Nominal AC input frequency	50 / 60 Hz		
Maximum AC input current	10 A		
Nominal AC input current	8 A @ 100 VAC	3.3 A @ 240 VAC	
Power factor	>0.99 @ 120 VAC	>0.98 @ 230 VAC	

Regulatory	
Effciency	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, EN55011, EN 61000-6-4
Immunity (EMC)	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2

Mechanical	
Dimensions	L250 x W180 x H80 mm
Weight	2.5 kg
AC input connector	IEC320 / C14
DC output connector	M5 threaded fasteners for ring terminals
Service port	Sealed (IP66) USB 2.0 Host Port (Type A) with dust cover
Mounting holes	6.4mm (1/4") diameter slots
Cooling	convection cooling

Environmental		
Enclosure	IP66 (NEMA4)	
Operating temperature	-40°C to +65°C	Derated at >40°C
Storage temperature	-40°C to +85°C	

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

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#### **Highlighted Features:**

- Optional CAN bus, RS485, I<sup>2</sup>C, Wi-Fi, Bluetooth communication for
- User friendly LED indicators for AC source, batterystatus, charging, err

- Field programmable with up to 30 charge profiles
  Auto-recharge for low voltage in maintenance mod
- OEM customizable & field replaceable AC/DC cabling
   Additional portable handle available











