# **PowerFirst**

A Global Leader in Charger Manufacture

























Intelligent design for charging AGM, GEL, Flooded and Lithium batteries, the G1200 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:





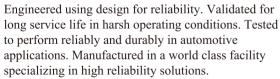














#### Premium charging Quality

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.















# G1200

# **Charger Specifications**

DC Output	24 VDC	36 VDC	48 VDC
Maximum DC output voltage	36 V	54 V	72 V
Maximum DC output current	40 A	30 A	20 A
Maximum DC output power		1200 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	85-270 VAC		
Nominal AC input voltage	100-240 VAC		
Nominal AC input frequency	50 / 60 Hz		
Maximum AC input current	12 A		
Nominal AC input current	12 A @ 100 VAC	6 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
Safety (LVD)	UL1564, CSA 107.2, EN 60335-2
Emissions (EMC)	EN 61000-6-4, EN55014
Immunity (EMC)	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2

Mechanical	
Dimensions	L307 x W175 x H100 mm
Weight	5 kg
AC input connector	IEC320 / C14 (requires country-specifc cord)
DC output connector	Anderson SB 50 connector, customizable
Service port	CAN or RS 485 communication
Mounting holes	6.0 mm (1/4") diameter slots
Cooling	Active cooling with fan

Environmental		
Enclosure	IP21	
Operating temperature	-10°C to +45°C	Derated at >40°C
Storage temperature	-40°C to +85°C	

Visit epowerfirst.com/charger/glory-family/ to view the complete product datasheet. Copyright © 2022 PowerFirst Company Limited. All rights reserved.



#### Highlighted Features:

- Optional CAN bus, RS485, I<sup>2</sup>C, Wi-Fi, Bluetooth communication for
- WFF1, Diuetooin communication for machine integration or lithiumBMS.

  User friendly LED indicators for AC source, batterystatus, 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









