

24V	36V	48V
40A	27A	20A

## Smart 1200



Intelligent design for charging AGM, GEL, Flooded and Lithium batteries, the Smart 1200 Charger is available in on- and off-board configurations. 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.



#### Machine Integration

Option CAN bus communication enables deeo machine integration,disgnostics control.



#### 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.



#### 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.



## Smart 1200 Charger Specifications

DC Output	24 VDC	36 VDC	48 VDC
Maximum DC output voltage	33.6 V	50.4 V	67.2 V
Maximum DC output current	30 / 40 A	27 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 ±10%
Nominal AC input frequency	50 / 60 Hz
Maximum AC input current	12.4 A
Nominal AC input current	12.4 A @ 100 VAC   12 A @ 240 VAC
Power factor	>0.99 @ 120 VAC   >0.98 @ 230 VAC

Regulatory	
Efficiency	88% at full load, 120 VAC, 48 VDC   99% at full load, 240 VAC, 48 VDC
Safety (LVD)	UL1564, CSA 107.2, EN 60335-2-29, BS ENIEC60335-2-9
Emissions (EMC)	EN55014
Immunity (EMC)	EN 61000-3-2, EN 61000-3-3

Mechanical	
Dimensions	L242 x W134 x H77.1 mm
Weight	3 kg
AC input connector	IEC320 / C14 (requires country-specific cord)
DC output connector	Customizable
Communication	CAN bus 485 (optional)
inhibit function	ON / OC
Cooling	Active cooling with fan (Variable speed)

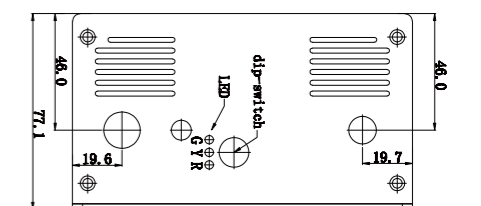
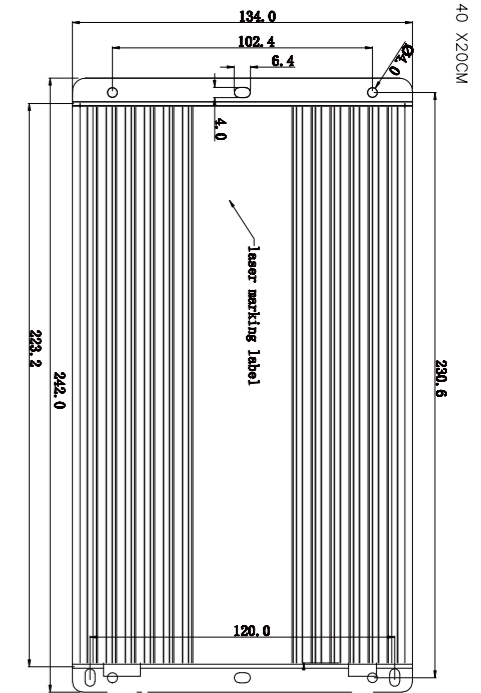
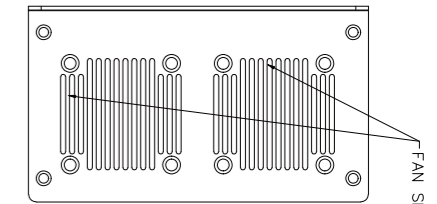
Environmental	
Enclosure	IP21
Operating temperature	-20°C to +45°C   Derated at >45°C
Storage temperature	-40°C to +70°C

Visit [epowerfirst.com/charger/Smart-family/](http://epowerfirst.com/charger/Smart-family/) to view the complete product datasheet.

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### Highlighted Features:

- Optional CAN bus, RS485, PC, Wi-Fi, Bluetooth 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



Request More Information

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