



# IC

# 1200



### Available models:

24 V / 50 A

36 V / 33 A

48 V / 25 A

# Delta-Q IC1200

## 1200 W Industrial Battery Charger

Capable of charging lead acid (wet, AGM, gel) and lithium battery chemistries, the IC1200 Charger is available in on- and off-board configurations. Optional CAN bus communication ensures seamless machine integration and AC/DC cabling is completely customizable. Applications include aerial work platforms, lift trucks, floor care machines, utility vehicles, and motorcycles.



### High Reliability

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



### Charge Quality

Charge profiles to precisely charge deep-cycle lead acid and lithium batteries. Developed in Delta-Q's battery lab to balance charge time, battery life and application requirements.



### Easy to Integrate

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.

[delta-q.com](http://delta-q.com)



Additional certifications can be pursued based on market demand.

# IC1200 Charger Specifications

DC Output	24 VDC	36 VDC	48 VDC
Maximum DC output voltage	36 V	54 V	72 V
Maximum DC output current	50.0 A	33.3 A	25.0 A
Maximum DC output power	1200 W		
Deep discharge recovery (minimum voltage)	1.2 V	1.8 V	2.4 V
Maximum C3 interlock current	10.0 A	2.0 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	14.5 A	
Nominal AC input current	13.4 A @ 100 VAC	11.1 A @ 120 VAC
	5.7 A @ 230 VAC	5.5 A @ 240 VAC
Power factor	>0.99 @ 120 VAC	>0.98 @ 230 VAC

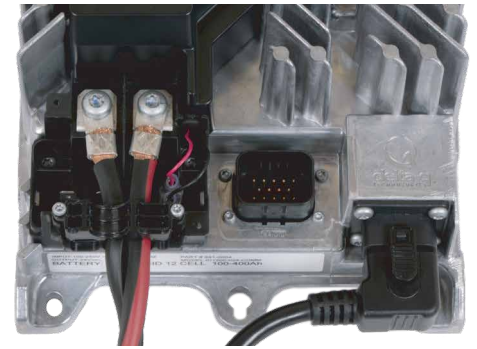
Regulatory	
Efficiency	90% at full load, 120 VAC, 48 VDC   92% at full load, 240 VAC, 48 VDC California Energy Commission (CEC) compliant
Safety	UL1564, CSA 107.2, EN 60335-2-29
Emissions	FCC Part 15 / ICES 003 Class A, EN55011, EN 61000-6-4
Immunity	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2

Mechanical	
Dimensions	33.5 x 17.9 x 10.5 cm (13.2 x 7.0 x 4.1")
Weight	4.1 kg (9.0 lbs)
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	6.4mm (1/4") 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	-40°C to +65°C (-40°F to 149°F)   Derated at >40°C (104°F)
Storage temperature	-40°C to +85°C (-40°F to 185°F)

Visit [delta-q.com/products](http://delta-q.com/products) to view the complete Delta-Q product portfolio.

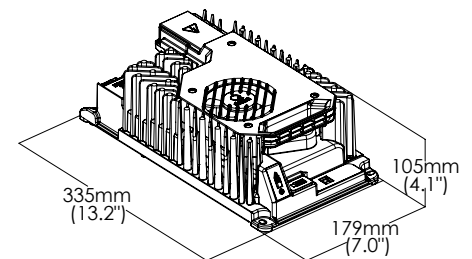
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## Usability Features

- + Optional CAN bus communication for machine integration or lithium BMS
- + Multi-color LED indicator for AC source, battery status, charging, error, fault
- + Numeric display for charge profile, alarm/fault codes
- + Field programmable with up to 25 charge profiles
- + Auto-recharge for low voltage in maintenance mode
- + OEM customizable, field replaceable cable design
- + Integrated carrying handle

## Dimensions



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