



# IC

# 900



#### Available models:

24 V / 37.5 A

36 V / 25 A

48 V / 20 A

## Delta-Q IC900

### 900 W Industrial Battery Charger

Capable of charging lead acid (wet, AGM, gel) and lithium battery chemistries, the IC900 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 boom lifts, lift trucks, floor care machines, speciality golf vehicles, utility vehicles, motorcycles, and scooters.



#### 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.



#### 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.



#### 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.



#### Global + Efficient

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

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



Additional certifications can be pursued based on market demand.



# IC900 Charger Specifications

DC Output	24 VDC	36 VDC	48 VDC
Maximum DC output voltage	36 V	54 V	72 V
Maximum DC output current	37.5 A	25.0 A	20.0 A
Maximum DC output power	900 W		960 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	10.5 A	
Nominal AC input current	10.1 A @ 100 VAC	8.4 A @ 120 VAC
	4.4 A @ 230 VAC	4.3 A @ 240 VAC
Power factor	>0.99 @ 120 VAC	>0.98 @ 230 VAC

## Regulatory

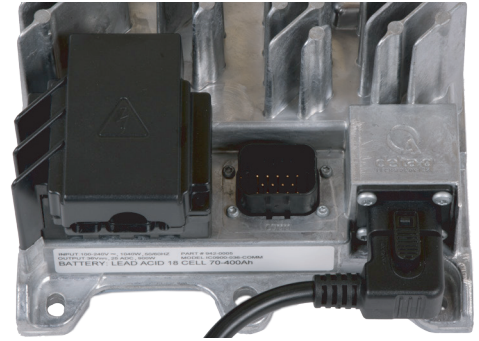
Efficiency	90% at full load, 120 VAC, 48 VDC   92% at full load, 240 VAC, 48 VDC California Energy Commission (CEC) standards compliant	
Safety	UL1564, CSA 107.2, EN 60335-2-29	
Emissions	FCC Part 15 / ICES 003 Class A, EN55011, EN 61000-6-4	
Immunity	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2	

## Mechanical

Dimensions	33.5 x 17.9 x 10.2 cm (13.2 x 7.0 x 4.0")	
Weight	4.4 kg (9.6 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	Convection cooled	

## Environmental

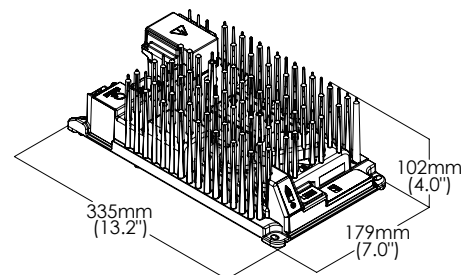
Enclosure	IP66 (NEMA4)	
Mechanical shock & vibration	GMW3172	
Corrosion & humidity		
Thermal fatigue		
Operating temperature	-40°C to +65°C (-40°F to 149°F)	Derated at >40°C (104°F)
Storage temperature	-40°C to +85°C (-40°F to 185°F)	



## 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

## Dimensions



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