delta-q TECHNOLOGIES

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.

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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)	

Visit delta-q.com/products to view the complete Delta-Q product portfolio.

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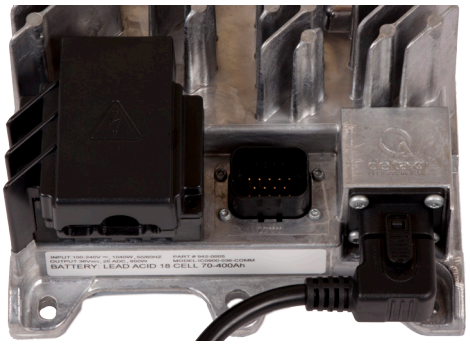
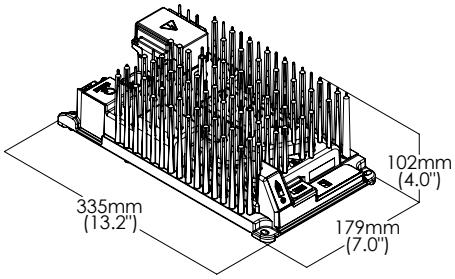


Usability Features

- 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

Dimensions



Web: delta-q.com
Phone: +1.604.327.8244
E-mail: info@delta-q.com

Delta-Q Technologies
3755 Willingdon Avenue
Burnaby, BC V5G 3H3
Canada