

Delta-Q IC650

650W Industrial Battery Charger

Key Features	Benefits
Rugged, sealed aluminum die cast enclosure	<ul style="list-style-type: none"> ➤ Protected against high vibration, extreme temperatures and water, chemical and dust ingress ➤ Installable on- or off-board in any orientation
Two-way communication through charger USB host port	<ul style="list-style-type: none"> ➤ USB flash drive retrieves detailed charging logs and updates charger software and QuiQ charge profiles ➤ Saves technician field visits by providing info for battery maintenance or troubleshooting
Wide AC input voltage range, high efficiency and unity power factor	<ul style="list-style-type: none"> ➤ Operates on any single-phase grid worldwide ➤ Meets CEC energy efficiency standards ➤ Reduced electricity costs
QuiQ™ optimized charging profiles for all popular industrial battery brands and types	<ul style="list-style-type: none"> ➤ Extend battery life and minimize charge times ➤ Auto-recharge for low voltage / storage ensures equipment is ready for use
CAN bus and Modbus communication	<ul style="list-style-type: none"> ➤ Integrate charger with battery management system and vehicle / machine electronics

IC650 Specifications

DC Output	24 VDC	36 VDC	48 VDC
Nominal DC output voltage	24 V	36 V	48 V
Maximum DC output voltage	36 V	54 V	72 V
Maximum DC output current	27.1 A	18.1 A	13.5 A
Maximum DC output power	650 W	650 W	650 W
Deep discharge recovery (minimum voltage)	1.2 V	1.8 V	2.4 V
Maximum interlock current	1 A	1 A	1 A
Battery type	Lead acid (Wet / AGM / GEL), Lithium Ion		
Reverse polarity	Electronic protection with auto-reset		
Short circuit	Electronic current limit		



Above: IC650 "Comm" Charger with optional AC, DC and signal cables.

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	7.5 A	
Nominal AC input current	7.3 A @ 100 VAC	6.0 A @ 120 VAC
	3.1 A @ 230 VAC	2.9 A @ 240 VAC
Nominal AC power factor	>0.99 @ 120 VAC	>0.98 @ 230 VAC

Regulatory

Efficiency	93.5% peak, California Energy Commission compliant
Safety	UL1564, CSA 107.2, EN 60335-2-29
Emissions	FCC Part 15 / ICES 003 Class A, EN55011
Immunity	EN61000-3-2, EN61000-3-3, EN 61000-4-2/-3/-4/-5/-6/-11

Mechanical

Dimensions	25.2 x 18.6 x 8 cm (9.9 x 7.3 x 3.1")
Weight	< 3 kg (< 6.5 lbs)
AC input connector	IEC320 / C14 (requires country-specific cord)
DC output connector	M6 threaded fasteners for ring terminals
Service port	Sealed (IP66) USB 2.0 Host Port (Type A) with dust cover
Mounting holes	Allows for safe installation on shelf, wall or bulkhead
Cooling	Normal operation in any orientation with passive cooling only

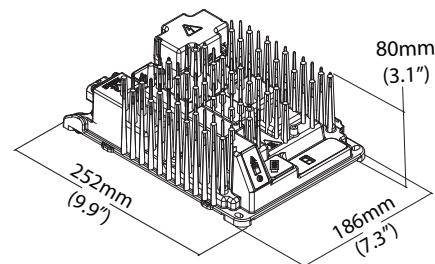
Environmental

Enclosure	IP66 (NEMA4)	
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)	

Features

- + Multi-color LED indicator for AC source, battery status (<80% / >80% / completion), charging, alarm, fault
- + Numeric display for charge profile, alarm / fault codes
- + Field programmable with up to 25 QuiQ™ charge profiles
- + OEM customizable, field replaceable cable design

Dimensions



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