delta-q TECHNOLOGIES

QuiQ™

DCI

QuiQ™-dci

1000W Battery Charger / DC-DC Converter

Available models:

48 V / 18 A	72 V / 12 A	96 V / 8.5 A

The QuiQ-dci combines the technology of a QuiQ 1000 battery charger with an integrated DC-DC power converter for the operation of vehicle accessories, such as lights, turning signals and entertainment devices. Integrating the two components saves on system integration, sourcing and inventory costs. The QuiQ-dci is well-suited as a charger for electric utility vehicles and low-speed electric vehicles.

Proven, Efficient Design

A proven power electronics design with 93% energy efficiency and sealed enclosure. The QuiQ-dci is designed to prevent damage from high vibration, extreme ambient temperatures, water, chemicals, and dust ingress. Built-in converter to power on-board accessories. Saves space, weight, and cabling.

Easy to Integrate

The QuiQ-dci can be equipped to go on-board, and is the same mechanical design as all other QuiQ series chargers. Clear display to indicate charging progress and completion. Uses battery maintenance tools for integrated charge cycle and event tracking.

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. Can store 10 lab-validated charge profiles for specific brands or amp-hour ranges of lead acid and lithium motive battery packs.

Global Flexibility

Global AC input to be used anywhere in the world, and has comprehensive regulatory approvals, including CEC energy efficiency standards.

QuiQ-dci Specifications

Charger DC Output	48 VDC	72 VDC	96 VDC
Maximum DC output power	1000 W	1000 W	945 W
Maximum DC output current	18 A	12 A	8.5 A
Maximum DC output voltage	68 V	100 V	135 V
Deep discharge recovery (minimum voltage)	12 V	18 V	24 V
Maximum interlock current	1 A	0.5 A	0.5 A
Battery type	Lead acid (Wet / AGM / GEL), lithium ion		
Reverse polarity	Electronic protection with auto-reset		
Short circuit	Electronic current limit		

Converter DC Output	48 VDC	72 VDC	96 VDC
Maximum power output	400 W		
No-load power draw	< 0.7 W	< 0.7 W	< 0.9 W
Battery DC input voltage range	35-87 V	50-130	60-150 V
DC output voltage	13.5 +/- 0.7 V		
Continuous / peak output current	30 A / 60 A		
Output connections	Switched, unswitched Anderson PP75 Series 114958G1 Connector		

AC Input	
AC input voltage range	85-265 VAC
Nominal AC input voltage	120 VAC / 230 VAC rms
AC input frequency	45-65 Hz
Maximum / nominal AC input current	12 A / 9.5 A @120 VAC; 5 A rms @230 VAC
Nominal AC power factor	>0.99 @ 120 VAC; >0.98 @ 230 VAC

Regulatory	
Efficiency	93% charger output; California Energy Commission (CEC) compliant
Safety	UL approved to UL1564 3rd Ed. and CSA 107.2, EN 60335-2-29 Designed to meet UL2202 1st Ed.
Emissions	FCC Part 15 / ICES 003 Class A, EN 55011
Immunity	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-4

Mechanical	
Dimensions	28.0 x 24.6 x 11.0 cm (11 x 9.7 x 4.3”)
Weight	< 6 kg. (<13 lbs.)
AC input connector	IEC320/C14 (requires country-specific cord)
DC output connector	Anderson SBS50
Signals connector	Deutsch DT06-08SA

Environmental	
Enclosure	IP66 (NEMA4)
Operating temperature	-30°C to +50°C (-22°F to 122°F) Derated at >30°C (86°F), <0°C (32°F)
Storage temperature	-40°C to +70°C (-40°F to 158°F)

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

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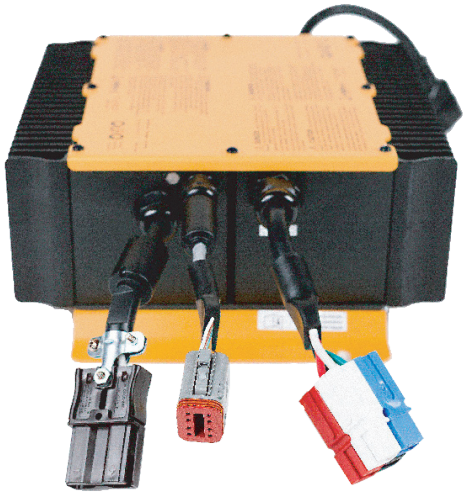
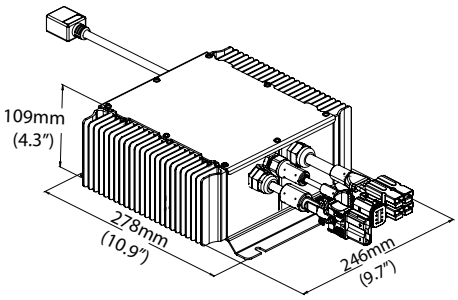


Usability Features

- Battery temperature monitor
- Multi-color LED indicator for >80% charge, full charge, fault
- Field programmable with up to 10 QuiQ charging profiles
- Download charge / event data using QuiQ Programmer

Dimensions



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