



Delta-Q Technologies RQ Series

350W Battery Charger for Lithium
and Lead-Acid Battery Chemistries

The RQ Series are compact, rugged and highly efficient automotive grade battery chargers. Designed for worldwide installation, its latest charging technology effectively charges lead-acid and lithium-ion batteries for optimal performance. CANbus communication (CANopen and J1939 protocols) allows for BMS controlled charge, vehicle and telematics system integration. Suitable for floor machines, pallet trucks, MEWP, OPE and e-mobility.



Available Models

12V

24V

36V

48V

RQ 350 Models



Features



Sealed and Rugged

IP66 rated to protect against water and dirt ingress. Designed to withstand automotive shock and vibration.



Safety Protection

Protects against reverse polarity, short-circuit, overcurrent and AC over voltage up to 420V AC.



LED's to indicate charging status, errors and faults. Push button to update charge profile in the field



Residential and Automotive Emissions

FCC B / CISPR 14 compliant for installation on residential power circuits. UNECE R10 compliant for electromagnetic compatibility on road vehicles.



Can Bus Communication

CANopen and J1939 protocols to interact with vehicle, telematics and lithium BMS. CAN bus can be used to also update charger software, load charging profiles, and download charge tracking and diagnostic information.



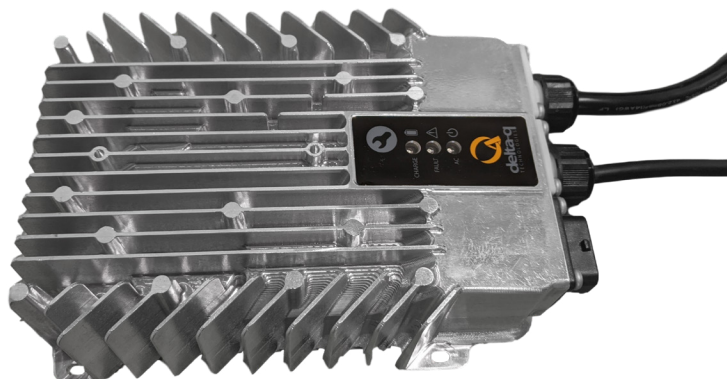
Charge Quality

Highly optimized charging to prolong battery life and application requirements using Delta-Q's extensive library of charging algorithms.

OEM Features

- Wide AC input voltage (85-270V) for worldwide installation
- >92% peak efficiency and compliant to global efficiency standards
- AC over voltage protection up to 420V AC for EU and Asia
- Safety interlock feature to prevent vehicle movement while charging
- Field programmable with up to 25 charge profiles
- Auto- recharge in maintenance mode
- Optional carrying handle for portability

Applications



DC Output	12V	24V	36V	48V
Max DC output voltage	24 VDC	36 VDC	60 VDC	72 VDC
Max DC output current	15 A	13 A	10 A	7 A
Max DC output power	150 W	350 W		
Deep discharge recovery (Lead-acid minimum voltage)	0.1 Volts per cell			
Dry contact interlock current rating	Standard: 1.0 A Optional: 5.0 A			
Lithium final charging voltage	12-24 VDC	24-36 VDC	36-54 VDC	48-72 VDC
Lithium cells in series	Up to 5	5 to 9	8 to 14	10 to 19
Battery type	Lead-acid (wet / AGM / gel), lithium-ion			
Reverse polarity	Electronic protection with auto-reset			
Short circuit	Electronic current limit			
AC Input	12V	24V	36V	48V
AC input voltage range	85-270 VAC			
Nominal AC input voltage range	100-240 VAC			
Nominal AC input frequency	50/60 Hz			
Max AC input current	Up to 1.7 A	3.8 A		
Nominal AC input current	1.5 A @ 120 VAC	3.2 A @ 120 VAC		
	1.3 A @ 240 VAC	1.6 A @ 240 VAC		
Nominal AC power factor	>0.99 @ 120 VAC, >0.98 @ 230 VAC			
Mechanical	All Models			
Dimensions	200 x 145 x 60 mm (7.8 x 5.7 x 2.3")			
Weight	1.5 kg (3.3 lbs)			
AC input connector	IEC320/C14 with country-specific AC cord			
DC output connector	OEM customizable output connector			
Mounting holes	M4 diameter slots			
Cooling	Natural convection			
Regulatory*	All Models			
Efficiency	93% peak efficiency; California Energy Commission (CEC) and Department of Energy (DOE) compliant			
Safety	CE, UL1564, EN 60335-2-29, AS/NZS60335 (RCM)			
Emissions	All Models: FCC Part 15 / ICES 003 Class B, EN 61000-3-2, EN 61000-3-3, EN 61000-6-3, CISPR 14.1 RQ 350W 48V: UNECE R10			
Immunity	All Models: CISPR 14.2, EN 61000-6-2 (Industrial) RQ 350W 48V: UNECE R10			
Environmental	All Models			
Enclosure	IP66 (NEMA4)			
Mechanical shock & vibration	Shock: ISO 16750-3 chap. 4.2.2. Vibration: ISO 16750-3 chap. 4.1.2.4 (Test IV: vehicle body) GMW 3172			
Operating temperature	-40°C to +65°C (-40°F to 149°F)			
Storage temperature	-40°C to +85°C (-40°F to 185°F)			

*Regulatory certifications pending

Specifications are subject to change.

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台灣司特克國際有限公司
新北市三重區興德路84號4樓
TEL. 02-29956429
FAX. 02-29957031
網址: www.taiwtechs.com.tw
E-mail: taiw@joynice.com.tw