

ZAPI GROUP

CHARGING SOLUTIONS



ATECH
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 **delta-q**
TECHNOLOGIES
A ZAPI GROUP COMPANY

STERCOM 

ZIVAN
A ZAPI GROUP COMPANY

Delta-Q IC-Series

The IC series comprises compact, flexible and user-friendly industrial chargers that optimally charge lead-acid (wet, AGM, gel) and lithium battery packs to provide the best performance for the intended application.



Application range



Aerial work platform



Floor care



Maritime



Material handling



IC650

Output voltage	24 - 36 - 48 V
Max. DC output current	650 W
Input voltage	85 - 270 V _{AC}
Protection class	IP66



IC900

Output voltage	24 - 36 - 48 V
Max. DC output current	900 - 900 - 960 W
Input voltage	85 - 270 V _{AC}
Protection class	IP66



IC1200

Output voltage	24 - 36 - 48 V
Max. DC output current	1200 W
Input voltage	85 - 270 V _{AC}
Protection class	IP66



Delta-Q ICL-Series

The ICL series includes reliable, compact, robust, automotive-grade chargers optimized for charging 9S to 34S lithium battery packs to optimize battery life and application performance.



Application range



Aerial work platform



Material handling



Floor care



Turf equipment



Light electric road vehicles



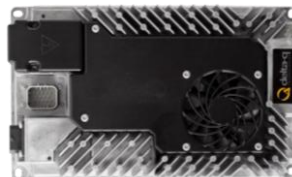
ICL900

Output voltage	57 V
Max. DC output current	900 W
Input voltage	85 - 270 V _{AC}
Protection class	IP66



ICL1200

Output voltage	57 - 85 - 120 V
Max. DC output current	1200 W
Input voltage	85 - 270 V _{AC}
Protection class	IP66



ICL1500

Output voltage	58 - 85 - 120 V
Max. DC output current	1500 W
Input voltage	85 - 270 V _{AC}
Protection class	IP66



Delta-Q RC-Series

The RC series is a compact, IP66-sealed, lightweight, flexible and reliable charging solution for all lead-acid and lithium batteries.



Application range



Aerial work platform



Floor care



Electric golf vehicles

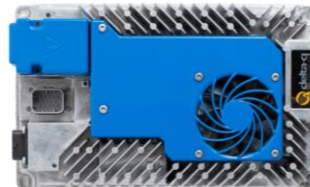


E-Mobility



RC900

Output voltage	36 - 48 V
Max. DC output current	900 W
Input voltage	85 - 270 V _{AC}
Protection class	IP66



RC1000

Output voltage	24 V
Max. DC output current	1000 W
Input voltage	85 - 270 V _{AC}
Protection class	IP66



RC1200

Output voltage	36 - 48 V
Max. DC output current	1200 W
Input voltage	85 - 270 V _{AC}
Protection class	IP66



Delta-Q RQ-Series

The RQ Series is a high quality, compact and fully sealed charger that redefines quality expectations and customer experience in the low power battery charger market.



Application range



Aerial work platform



Material handling



Floor care



Turf equipment



Light electric road vehicles



RQ350

Output voltage	12 - 24 - 36 - 48 V
Max. DC output current	220 - 350 - 350 - 350 W
Input voltage	85 - 270 V _{AC}
Protection class	IP66



RQ700

Output voltage	24 - 36 - 48 VV
Max. DC output current	700 W
Input voltage	85 - 270 V _{AC}
Protection class	IP66



Delta-Q XV-Series

The XV series is the best 3-in-1 charging system in its class. It is compact, scalable and reliable - an ideal charging solution for the electrification of the drivetrain! For lead-acid and lithium batteries. Optional EVSE or Type2 support of the charging standard according to EN61851 or J1772.



Application range



Agricultural



Construction equipment



E-Mobility



Maritime



Material handling



Turf equipment



XV3300

Output voltage	58 - 65 - 120 V
Max. DC output current	3,3 kW
Input voltage	85 - 265 V _{AC}
Protection class	IP66/IP67



XV7200

Output voltage	125 - 500 - 1000 V
Max. DC output current	7,2 kW
Input voltage	90 - 300 V _{AC}
Protection class	IP66/IP67



Delta-Q ZQ-Series

ZQ6000: Built for electric off highway mobile machinery and on-road vehicles, the on-board solution will optimally charge any nominal 48, 80, or 100 volt battery pack. The unique design combines a high-performance 6.0 kW charger, a 1.0 kW DC-DC converter, and an EV charging station interface, all in a highly compact fan cooled package.

ZQ22000: Built for electric on road vehicles and off highway mobile machinery, the on-board solution will optimally charge any nominal 400 or 800 volt battery pack. The unique design combines a high-performance 22 kW charger, a 2 kW DC-DC converter, EV charging station interface, DC Fast Charging (DCFC) power line communication (PLC) module, all in a highly compact liquid cooled package.



Application range



Aerial work platform



Agricultural



Construction equipment



Material handling



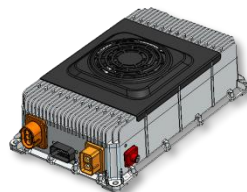
Maritime



Golf vehicle



E-Mobility



ZQ6000

Output voltage	48 - 80 - 100 V
Max. DC output current	6 kW
Input voltage	90 - 300 V
Protection class	IP66/IP67



ZQ22000

Output voltage	500 - 1000 V
Max. DC output current	22 kW 3-Phases 19,2 kW 1-Phase
Input voltage	360 - 525 V _{AC} 3-Phases 90 - 300 V _{AC} 1-Phase
Protection class	IP66/IP67



STERCOM OBC-Series



The Stercom ultra-compact **Onboard Charger (OBC_22kW)** is compatible with all single-phase and three-phase AC charging stations as well as Type 2 wallboxes. The optimized charging process ensures gentle and efficient charging for all common high-voltage batteries across various voltage classes, up to 850V DC. By utilizing the latest Silicon Carbide (SiC) semiconductor technology, stercom set new standards in efficiency, size, and weight. For very large battery systems, charging power can be scaled up by connecting multiple OBC_22kW units in various parallel modes.

THE ALL IN ONE SOLUTION

The OBC V2X from Stercom Power Solutions is a revolutionary onboard charger that enables electric vehicles not only to charge, but also to act as an energy source. This innovative bi-directional charger (V2X) connects vehicles to the power grid, buildings and other devices and vehicles. Thanks to its outstanding performance and versatility, it sets new standards in e-mobility.

Application range



Aerial work platform



Agricultural



Construction equipment



E-Mobility



Floor care



Municipal vehicles



Maritime



Material handling



Trains & public transportation



Trucks & commercial vehicles



OBC 22kw

Output voltage 450 - 800 – 850 V
 Input voltage 346 - 440 V 3-phase
 200 - 250 V 1-phase
 Protection class IP6k9k



OBC V2X

Output voltage 3 x 400 - 480 V
 Input voltage 400 - 480 V 3-phase
 230 - 240 V 1-phase
 Protection class IP6k9k/IP67

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ZIVAN SG-Series & CT3.3



Application range



Aerial work platform



E-Mobility



Ground support equipment



Material handling



Construction equipment



Maritime



Agricultural



Turf equipment



SG3 without EVSE alternative SG3 Gen1.5 with EVSE

1-phase
Battery

Output voltage
Max. DC output current
Input voltage
Protection class
Note SG3 GEN 1.5

Lead acid, lead gel, AGM, NiCd,
Lithium, etc.
24 - 36 - 48 - 72 - 96 V
3 - 9 kW
95 - 265 V_{AC}
IP65
Optional EVSE or Type2 support of the
charging standard according to EN61851 or J1772





CT3.3

1-phase Battery	Lead acid, lead gel, AGM, NiCd, Lithium, etc.
Output voltage	58.8 - 65 - 120 V
Max. DC output current	3,3 kW (to 9,9 kW stackable)
Input voltage	85 - 270 V _{AC}
Protection class	IP67
Note	Optional EVSE or Type2 support of the charging standard according to EN61851 or J1772



SG9

1-phase / 3-phase Battery	Lead acid, lead gel, AGM, NiCd, Lithium, Li-Ion, Power Caps, etc.
Output voltage	36 - 48 - 72 - 96 - 96/48 V
Max. DC output current	6 - 9 kW
Input voltage	100 - 240 V _{AC} [1-ph] 200 - 240 V _{AC} [3-ph] 400 V _{AC} [3-ph + N]
Protection class	IP55



ZIVAN NG-Series



- For all battery types (lead acid, lead gel, AGM, NiCd, Lithium, etc.)
 - On request with CANopen protocol and own control
 - All NG devices can be used in master/slave mode via CAN and can be expanded up to 72kW charging power
 - Functionality of the PC software, similar to all ZAPI controllers
 - Flash memory for easy updating
 - Suitable for load management system
 - External start-stop as standard
 - Optional: External switchover between two charging curves
- USB-to-CAN connection for parameterizing and reading out the internal memory
 - Flexible software with adjustable key data for voltage, current, time, charging cycles, etc.
 - Programmable desulphation program
 - Fault memory
 - Protection class IP20

Application range



Aerial work platform



E-Mobility



Floor care



Maritime



Material handling



NG1 CAN

1-phase	
Output voltage	12 - 24 - 48 - 72 - 96 V
Max. DC output current	1 kW
Input voltage	230 V _{AC} ± 10 % 115





NG3 CAN

1-phase
Output voltage 12 - 24 - 48 - 72 - 80 - 96 V
Max. DC output current 3 kW
Input voltage 230 V_{AC} ± 10 % 115



NG5 CAN / NG7 CAN

3-phase
Output voltage 24 - 48 - 80 - 96 - 96/48 V
Max. DC output current 5 bzw. 7 kW
Input voltage 400 - 480 V_{AC} ± 15 % 3-phase



NG9 CAN / NG9+ CAN

3-phase
Output voltage 24 - 48 - 80 - 96 - 96/48 V
Max. DC output current 9 bzw. 10 kW
Input voltage 400 - 480 V_{AC} ± 15 % 3-phase



ZIVAN BG-Series



- For all battery types (lead-acid, lead-gel, AGM, NiCd, Lithium, etc.)
- Display (voltage, current, charging time, Ah, error, ...)
- Base load curves adjustable via mode button
- CAN interface; CAN protocol for lithium battery management systems (BMS)
- Charging characteristics can be parameterized via CAN bus
- Fault memory
- CE-certified
- Optional: External switchover between two charging curves

- Large flash memory
- Charging history
- Real-time clock
- In accordance with the requirements of the Low Voltage Directive and the EMC Directive

Application range



Material handling



Ground support equipment



Turf equipment



E-Mobility



Maritime



Robotic & automation



BG9

3-phase
 Output voltage 24 - 48 - 80 - 96 - 96/96 V
 Max. DC output current 9 kW
 Input voltage 400 V_{AC}
 Protection class IP54



BG18

3-phase
 Output voltage 24 - 48 - 80 - 96 - 96/96 V
 Max. DC output current 18 kW
 Input voltage 400 V_{AC}
 Protection class IP44



ZIVAN MG-Series



- For all battery types (lead-acid, lead-gel, AGM, NiCd, Lithium, etc.)
- CAN interface; CAN protocol for lithium battery management systems (BMS)
- Base load curves adjustable via mode button
- Charging characteristics can be parameterized via CAN bus
- Fault memory
- Real-time clock
- Protection class IP20
- Optional: External switchover between two charging curves

- Display (voltage, current, charging time, Ah, error, ...)
- Large flash memory
- Charging history
- CE-certified
- In accordance with the requirements of the Low Voltage Directive and the EMC Directive

Application range



Material handling



Construction equipment



Agricultural



E-Mobility



Aerial work platform



Floor care



Maritime



MG18

3-phase	
Output voltage	24 - 48 - 80 - 96 - 96/96 V
Max. DC output current	18 kW
Input voltage	400 V _{AC}





MG27

3-phase
Output voltage 36 - 48 - 80 - 96 - 96/96 V
Max. DC output current 27 kW
Input voltage 400 V_{AC}



MG36

3-phase
Output voltage 48 - 80 - 96 - 96/96 V
Max. DC output current 36 kW
Input voltage 400 V_{AC}



ZIVAN other



The NCG is based on the hardware of the NG7 CAN. It fulfills two functions:

- As a power generator, it provides a constant current for desulphation and regeneration of deep-charging batteries
- As a universal charger, it charges batteries with nominal voltages from 2 to 96 V, an adjustable current between 0 and 50 A and a selectable time from 1 to 100 h



NCG Universal Charger /Generator

3-phase	
Battery	Lead acid, lead gel, AGM
Adjustable output voltage	2 - 6 - 12 - 18 - 24 - 36 - 48 - 60 72 - 80 - 84 - 96 V
Max. DC output current	7 kW
Input voltage	400 V _{AC}
Protection class	IP20



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