

CEN Charging System Solutions

C.E. Niehoff & Co. (CEN) is a privately held, employee-owned company and world leader in the design and manufacture of heavy-duty, high output alternators and power management devices. All of our products are designed and built for severe duty applications and to operate in the harshest of environments.

In addition to a wide-range of off-the-shelf alternator models, we customize designs for niche applications to suit a wide range of engines, output capabilities, and a variety of market specific features. Our alternators range in output from 60A to 960A at 14V to 600V, include dual voltage options, and have the capability to charge traditional lead-acid, AGM or Li-ion batteries.

Our line of power management devices includes: voltage regulators, battery isolators, transient protection devices, DC-DC converters, battery equalizers, and smart battery sensors. Combined with our alternators, these devices create a seamlessly integrated charging eco-system ideal for complex applications and to satisfy the power demands of current and next generation military vehicle technology.

CEN has the engineering expertise and proven experience to develop solutions to the most complex charging system challenges.

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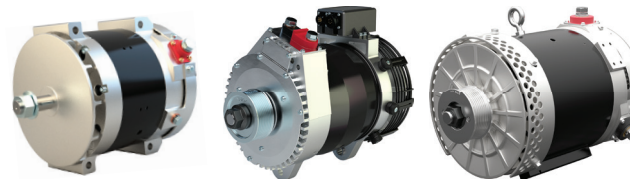
Alternators

High Output at Low Engine Idle	Brushless Design (No Arcing)
Dual-Voltage Capable	Digital Regulator Technology
High Voltage Capable	High Efficiency/Reliability/Durability
Voltage Options: 14V-600V	Isolated Ground Options
Output Range: 30A-960A	Air Cooled
Hazardous Location Options (ATEX/CSA Certified)	Multiple Mounting Options (Spool, Hinge, Pad, Cradle, PTO, Remote, Custom)
Field Serviceable	

Designed to meet USA and international military and commercial performance standards including but not limited to:

MIL-STD, DEF-STAN	ASME, SAE, ISO, DIN
SAE J1171 (Ignition Protection)	SAE J1455 (Environmental)
EMI/EMC/EDS	

Family	Small Frame	Mid Frame	Large Frame
Mounting Options	Spool, Hinge, Hazloc	Hinge, Pad	Hinge, Pad, Cradle, Custom
Output Range	30A-250A	150A-415A	260A-960A
Power	.8kW-7kW	4.2kW-11.6kW	7.3kW-27kW



Smart Voltage Regulators*

Battery Voltage and Temperature Sensing	Custom Li-Ion and Lead-Acid Charging Algorithms
Over-Voltage Protection	J1939 CAN Bus Communications
Soft-Start Ramp-Up	Data Logging
Multi-Engine Capable/ Load Sharing	Parallel Operation with Dynamic Load Sharing
Color Coded Diagnostic LED	

*CEN Regulators are only compatible with CEN alternators.



Power Management Devices

Battery Pack Equalizers (24V/12V)	Battery Isolators
DC/DC Converters	Li-Ion Charging Managers
Smart Battery Sensors	Smart Power Managers
Transient Protection Devices	EMI Filter
Power Quality Devices	

