C.E. Niehoff & Co.
CHARGING AND POWER MANAGEMENT SOLUTIONS®

Alternator Quick Reference

Model Range	N10XX	N11XX	N15XX	N12XX	N13XX	N16XX	N17XX	N14XX
Max Power	1.7 kW	4.0 kW	7.6 kW	9.4 kW	12.6 kW	23.0 kW	26.8 kW	20.4 kW
Max Available Output Amps	60	140	270	345	450	810	960	730
Standard Voltage(s)	28 14	28 14	28 14	28 14	28 14	28 270	28 600	28
Dual Voltage Capable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Available Voltage	42 - 74	42 - 74	42 - 600	42 - 600	42 - 600	42 - 600	42 - 600	N/A
Mounting Options	Spool J180 Hinge Pad Rail	Custom Hinge J180 Hinge Pad Rail	Custom Hinge J180 Hinge Pad Rail	Custom Hinge J180 Hinge Pad Rail	Custom Hinge Pad Rail	Custom Hinge J180 Hinge Rail	Rail	4 Point
Smart Regulator	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Shell Diameter	5.5” / 13.97 cm	6.5” / 16.51 cm	7.75” / 19.685 cm	8.0” / 20.32 cm	8.0” / 20.32 cm	9.0” / 22.86 cm	10.0” / 25.4 cm	9.75” / 24.765 cm
Length Excl. Mounting	6” / 15.24 cm	10” / 25.4 cm	8.5” / 21.59 cm	10.5” / 26.67 cm	12” / 30.48 cm	15.5” / 39.37 cm	15.5” / 39.37 cm	11.5” / 29.21 cm
Weight	20 lbs / 9 kg	40 lbs / 18 kg	47 lbs / 21 kg	68 lbs / 31 kg	86 lbs / 39 kg	115 lbs / 52 kg	155 lbs / 70 kg	72 lbs / 33 kg

C.E. Niehoff & Co.
2021 Lee Street
Evanston, IL 60202
USA

1-847-866-6030
sales@ceniehoff.com
ceniehoff.com

Designed to meet certain U.S.A and international military and commercial performance standards including but not limited to: MIL-STD, DEF-STAN, ASME, SAE, ISO, DIN

The above information is for reference only. Max power and output measurements listed are taken subject to conditions as per SAE J56. Contact us for detailed dimensions, output specifics and/or additional information.

All units referenced on this page are subject to U.S. export control restrictions. Please inquire for more information regarding these restrictions.

Made in the U.S.A.

ISO 9001:2015 CERTIFIED

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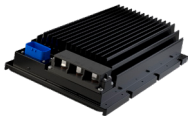
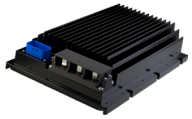
Power Management Devices Quick Reference

Battery Equalizer	Electronic Power Manager (EPM)	DC to DC Converter	Battery Isolator	Smart Battery Sensor	Transient Protection Device (TPD)	Load and Battery Control Device (LBCD)	Voltage Filter
							
18V-32V DC input voltage (Input voltage/2) ± 2% output voltage	Automatic electronic battery disconnect switch	18V-32V DC input voltage 14V ± 0.2V output voltage	100V / 350A-1000A input range	14V: 0.0V to 20.0V±0.1% 28V: 0.0V to 40.0V±0.1% measured battery voltage	280A suppression capability at 28V for excess electrical system energy	28V/14V dual voltage input	Improves vehicle electrical system power quality should it be necessary to continue to operate in the absence of batteries
125A output current	Protected 28V and 14V auxiliary outputs with diagnostic LED's	125A output current	Prevent current flow between power distribution branches, battery packs or backup power sources	0.5A to 600A (±1.0%) measured current	100A Continuous pass-thru current 700A Inrush current (Duration < 0.5 seconds)	200A max continuous current on either input	Pre-charging and post-discharging circuits, controlled by the vehicle's ignition signal
-40°C to +90°C operating temp Full power (No de-rating): -40°C to +70°C	Automatic reverse polarity protection	-40°C to +90°C operating temp Full power (No de-rating): -40°C to +70°C	-40°C to +65°C ambient temperature range without fan	-40°C to +105°C measured temperature	Customizable device thresholds	-50°F to 167°F operating temperature	LED indicator provides visual feedback
96% peak efficiency	Limp home mode capable	96% peak efficiency	Supports independent power distribution branches	Calculated parameters (est): Total number of battery charging cycles / total current (amp/hrs) in and out of battery	High current input and output terminals	Charging system indication signal and LED mode indicator	
12.5" x 8.5" x 2.8" 31.75cm x 21.6cm x 7.11cm	Low battery voltage indicator	12.5" x 8.5" x 2.8" 31.75cm x 21.6cm x 7.11cm	Voltage filtering	J1939 vehicle backbone connection and communication via available harness	J1939 Communications	Battery disconnect signal	
10.2 lbs / 4.6 kg	J1939 Communication: battery voltage / temp / amperage / faults	10.2 lbs / 4.6 kg	Multiple configurations		System status LED	Auto start/stop Reverse polarity protection	

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