

Leece-Neville Alternator

12/14 Volt/110, 130, 140, 160, 170 Amp
24/28 Volt/75, 85, 110 Amp

Now High Temperature
Rated for New EPA
Emission Compliant
Engines!

Under-hood temperatures in today's heavy-duty trucks are exceeding anything the industry has seen before. Low-profile cab designs reduce air circulation, and new emission standards mean hotter running engines. At Leece-Neville we understand your needs. That's why we redesigned and upgraded the 8LHA/8LHP alternator series so now they can take the heat better. Our heavy duty series has been an industry standard for both OEM and Aftermarket applications for decades on Heavy Truck, Bus and Off-highway vehicles.

And now, Leece-Neville is setting the standard...Again!

Features & Benefits

- Designed for vibration resistance and reliability, this alternator series incorporates features such as "conical lock" through bolts and various thread lock systems for overall structural integrity
- Now upgraded for operating temperature conditions of -40°C to 110°C/230°F, 105°C and 115°C also available
- Solid rectifier lead frame creates a single, solid connection to all of the high temperature avalanche diodes, Diode connections are welded, not soldered
- Higher efficiency fan for greater air flow and cooling
- Key structural components such as housings and hardware are interchangeable between similar mounts
- Key functional components such as rotors, stators, regulators and rectifiers are interchangeable between all types which reduces maintenance costs
- Strong low speed performance on all 12 and 24 volt models makes this series ideal for diesel applications where engine operating speeds are relatively low
- Large ball bearings, both at the front and rear, increases operating life and provides better support for the higher belt loads and operating temperatures found in today's vehicles, now with Krytox® high temperature grease
- Sealed brush cavity reduces contamination and provides longer life than open brush systems
- Various mounting systems are available to provide flexibility in vehicle application and to accommodate contemporary mounting systems

**Pulleys are for illustrative purposes only, and are not included.

8LHA Series

Dual Foot, J-180 Mount**
Now upgraded to 110°C / 230°F



8LHP Series

4 Point Pad Mount**
Now upgraded to 110°C / 230°F

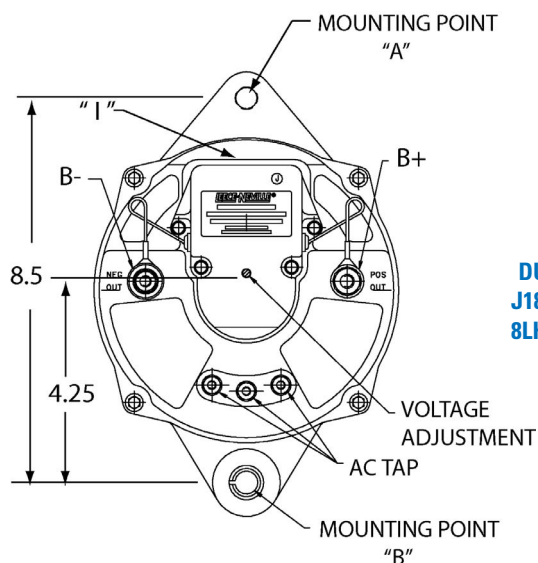


Applications

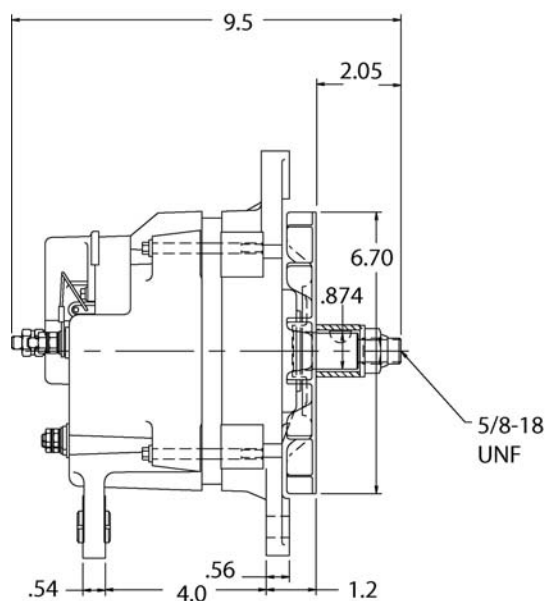
The 8LHA/8LHP Series is ideally suited for general-purpose heavy duty applications where reliability and serviceability are key considerations. Low speed performance makes this series an ideal economic choice. Recommended applications include medium and heavy trucks, agriculture, marine, off-highway and construction equipment.

Dimensions

(dimensions in inches)



**DUAL FOOT
J180 MOUNT
8LHA SERIES**



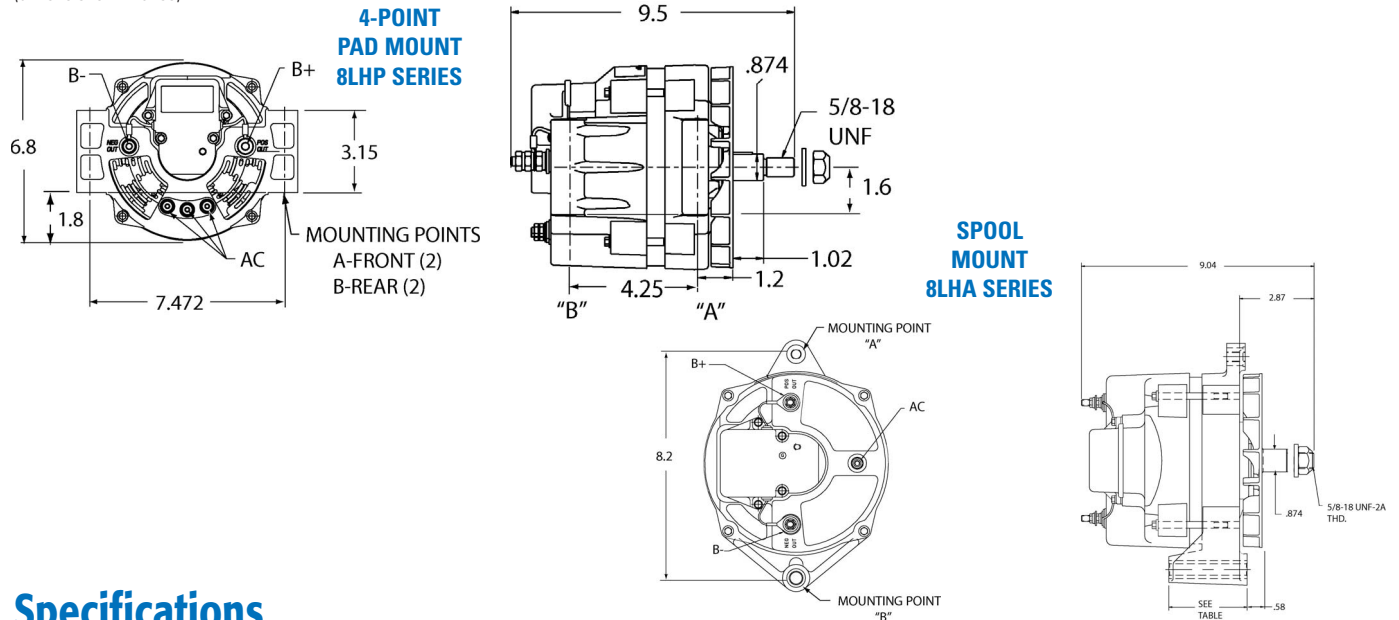
Specifications

		12/14 VOLT						
DUAL FOOT J180 Mount	Model No. Sales No.	8LHA2057VA 110-450	8LHA2070VE 110-555JHO	8LHA2071V 110-555I	8LHA2077VA 110-777	8LHA2096VA 110-555N	8HLA2097V 110-558	8LHA2252V 110-566
SPOOL MOUNT 3 Inch	Model No. Sales No.	-	-	-	-	-	-	-
4 POINT Pad Mount	Model No. Sales No.	-	8LHP2170VE 110-555PHO	-	8LHP2177V 110-777P	-	-	8LHP2253V 110-566P
Output, Stabilized:								
5000 RPM		160	160	140	140	130	160	160
1800 RPM		78	78	87	87	87	78	78
Temperature Range		-40 C to 110 C*	-40 C to 105 C*	-40 C to 110 C*	-40 C to 110 C*	-40 C to 110 C*	-40 C to 110 C*	-40 C to 115 C*
Rotation Direction		CW	Bi-Directional	CW	CW	CW	CW	CW
Max. Continuous RPM		8000	8000	8000	8000	8000	8000	8000
Excitation Type		Self Excite	Self Excite	Self Excite	Self Excite	Self Excite	Self Excite	Self Excite
Lamp Circuit Capacity		-	-	.25 amps	-	-	.25 amps	-
Ground		Isolated	Isolated	Isolated	Isolated	Negative	Isolated	Isolated
Regulator Set Points		14.2 volts	14.2 volts	14.2 volts	14.2 volts	14.2 volts	14.2 volts	14.2 volts
Voltage Adjustment Range		NA	NA	NA	NA	NA	NA	NA
Bearing, Front		6305	6305	6305	6305	6305	6305	6305
Bearing, Rear		6205	6205	6205	6205	6205	6205	6205
Pulley Ratio Range		2:1 to 3:1	2:1 to 3:1	2:1 to 3:1	2:1 to 3:1	2:1 to 3:1	2:1 to 3:1	2:1 to 3:1
Weight (lbs)		19.0	19.0	19.0	19.0	19.0	19.0	19.0
J 180 Mounting: A 1/2"-13NC		1/2"-13NC	1/2"-13NC	1/2"-13NC	1/2"-13NC	1/2"-13NC	1/2"-13NC	1/2"-13NC
(see outline) B		.515" dia.	.515" dia.	.515" dia.	.515" dia.	.515" dia.	.515" dia.	.515" dia.
Pad Mount:	'A' Front (2)	-	.42"	-	.42"	-	-	.42"
	'B' Rear (2)	-	.48"	-	.48"	-	-	.48"
Spool Mount:	Spool Size / A	-	-	-	-	-	-	-
	Spool Size / B	-	-	-	-	-	-	-
Terminal Size:	B+	5/16"-24	5/16"-24	5/16"-24	5/16"-24	5/16"-24	5/16"-24	5/16"-24
	B-	1/4"-28	1/4"-28	1/4"-28	1/4"-28	1/4"-28	1/4"-28	1/4"-28
	AC Tap / R Pin	10-24	10-24	10-24	10-24	10-24	10-24	10-24
	"I" Lamp	-	-	10-24	-	-	-	-
	Remote Sense	-	-	-	-	-	-	-
Notes:		Standard Regulator	Standard Regulator	Standard Regulator with Lamp Driver Feature	Regulator has Smartchek, Self Diagnostic Feature	Standard Regulator	Standard Regulator with Field Cut-Out Capability w/ Lamp Driver Feature	Standard Regulator

* Leece-Neville is aggressively re-engineering our high volume alternators to the 110 °C / 230 °F specification. However, not all alternators in the series listed may have been converted to date. Please contact your Leece-Neville representative for additional details.

Dimensions

(dimensions in inches)



Specifications

12/14 VOLT						24/28 VOLT			
8LHA2098VA	8LHA2099V	8LHA2121V	8LHA2026VAS	-	8LHA2275V	8LHA3071P	8LHA3095R	8LHA3096U	-
8LHA2098VA	110-553	110-580	110-277A	-	110-775	110-446	110-466	110-459	-
-	-	-	-	8LHA2050VBS		-	-	-	8LHA3161U
-	-	-	-	-	110-454	-	-	-	110-550
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	8LHP2276V	-	-	-	-
-	-	-	-	-	110-775P	-	-	-	-
140	130	160	130	130	170	75	85	110	110
87	87	78	87	87	94	45	50	60	60
-40 C to 110 C*	-40 C to 110 C*	-40 C to 110 C*	-40 C to 110 C*	-40 C to 110 C*	-40 C to 110 C*	-40 C to 110 C*	-40 C to 110 C*	-40 C to 110 C*	-40 C to 110 C*
CW	CW	CW	CW	CW	CW	CW	Bi-Directional	Bi-Directional	CW
8000	8000	8000	8000	8000	8000	8000	8000	8000	8000
Self Excite	Self Excite	Self Excite	Self Excite	Self Excite	Self Excite	Self Excite	Self Excite	Self Excite	Self Excite
.25 amps	.25 amps	-	-	-	-	-	.25 amps	.25 amps	.25 amps
Isolated	Isolated	Isolated	Isolated	Isolated	Isolated	Isolated	Isolated	Isolated	Isolated
14.2 volts	14.2 volts	14.2 volts	NA	14.2 volts	14.2 volts	28.0 volts	28.0 volts	28.0 volts	28.8 volts
+/- .2 volts	NA	NA	NA	NA	NA	+/- .2 volts	+/- 1.0 volts	+/- 1.0 volts	+/- .2 volts
6305	6305	6305	6305	6305	6305	6305	6305	6305	6305
6205	6205	6205	6205	6205	6205	6205	6205	6205	6205
2:1 to 3:1	2:1 to 3:1	2:1 to 3:1	2:1 to 3:1	2:1 to 3:1	2:1 to 3:1	2:1 to 3:1	2:1 to 3:1	2:1 to 3	2:1 to 3:1:1
19.0	19.0	19.0	22.0	22.0	19.0	19.0	19.0	19.0	19.0
1/2"-13NC	1/2"-13NC	1/2"-13NC	3/8"-16	-	1/2"-13NC	1/2"-13NC	M12x1.75	M12x1.75	-
.515" dia.	.515" dia.	.515" dia.	.445" dia.	-	.515" dia.	.515" dia.	12.5mm	12.5mm	-
-	-	-	-	-	.42"	-	-	-	-
-	-	-	-	-	.48"	-	-	-	-
-	-	-	-	3/8"-16	-	-	-	-	3/8"x16
-	-	-	-	3"/.445" dia.	-	-	-	-	3"/.445" dia.
5/16"-24	5/16"-24	1/4"-28	5/16"-24	1/4"-28	5/16"-24	5/16"-24	M8x1.25	M8x1.25	1/4"-28
1/4"-28	1/4"-28	1/4"-28	1/4"-28	1/4"-28	1/4"-28	1/4"-28	M6x1.0	M6x1.0	1/4"-28
10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24
-	Connector	-	-	-	-	-	M5x.8	M5x.8	M5x.8
-	Connector	-	-	-	-	-	-	-	-
Standard Regulator with Field Cut-Out Capability w/ Lamp Driver Feature	Standard Regulator with Lamp Driver and Remote Sense in Connector	Standard Regulator	Standard Regulator	Standard Regulator	Standard Regulator	Standard Regulator	Standard Regulator with Lamp Driver Feature	Standard Regulator with Lamp Driver Feature	Standard Regulator with Lamp Driver Feature

Product Performance

12/14 Volt, 130/140 Amp

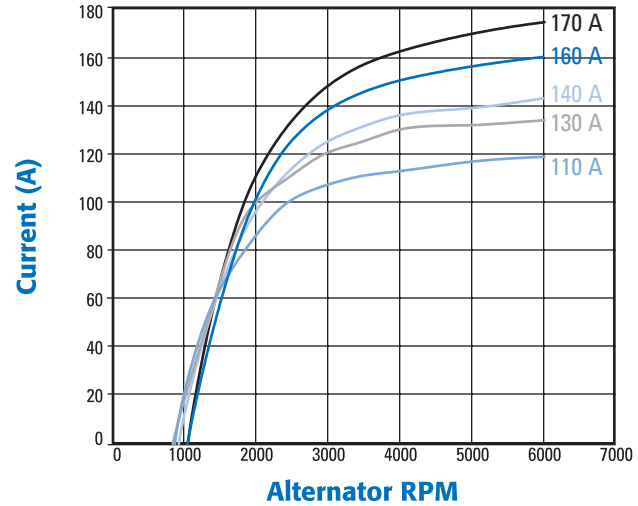
The 12 volt 130/140 amp unit is designed to be a general-purpose machine. Practical for both OEM and Service applications, it finds its greatest use on Medium and Heavy Truck. From the performance curves it can be seen that the 130/140 unit provides strong useable output throughout the operating range particularly when compared to competitive machines of slightly smaller frame size.

12/14 Volt, 110, 160 & 170 Amp

The 8LHA/8LHP Series supports both low and high output requirements, allowing the most economical choice by application. The 110, 160 AND 170 amp units compliment the mid-range 130/140 amp. The 110 amp has strong low-end output for low speed operation and is used where vehicle loads are minimal.

The 160 and 170 amp units also exhibit good low speed performance and provide strong output throughout the operating range. The unit's high output ability finds use in Heavy Trucks that have high accessory loads and school buses where heavy blower motor and lighting loads are encountered while the vehicle is operated under constant start/stop conditions.

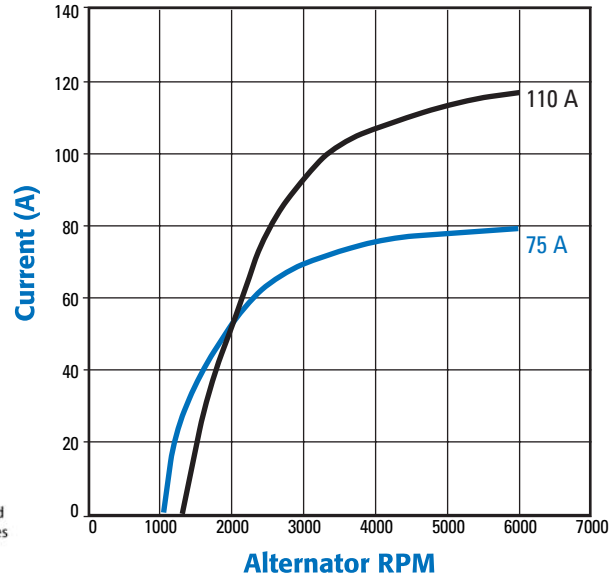
12/14 Volt



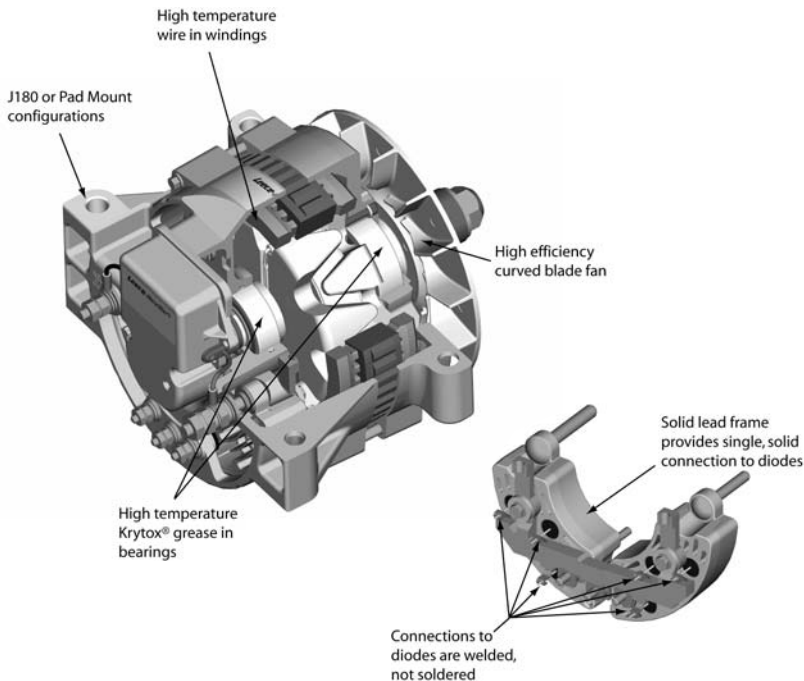
24/28 Volt, 75 Amp & 110 Amp

A range of 24 volt alternators is also available in the 8LHA/8LHP frame. They share many of the same basic components as the 12/14 volt units and exhibit the same low-end characteristics. Offered in 75 to 110 amp outputs the applications range from medium and heavy truck to marine, military and off-highway vehicles such as construction and industrial equipment.

24/28 Volt



The Leece-Neville Advantage



MANUFACTURING & OE SALES LEECE-NEVILLE HEAVY DUTY SYSTEMS

400 Main Street
Arcade, NY 14009
(585) 492-1700
Fax: (585) 492-1660

QS9000 Certified

www.prestolite.com

AFTERMARKET SALES LEECE-NEVILLE

7585 Empire Drive
Florence, KY 41042
(800) 354-0560
(859) 525-8801
Fax: (800) 997-6202