

4051™

HEAVY DUTY BRUSHLESS ALTERNATOR
High Output 240, 275 and 300 Amps



40SI™

High output and high efficiency equals fuel savings and long life

Delco Remy Heavy Duty Brushless Alternators have fewer moving parts.

Fewer moving parts mean less wear on the alternator. What you end up with is longer life, not to mention the best warranty in the industry to back it up.



HIGH EFFICIENCY TRANSLATES TO LESS ENGINE HORSEPOWER REQUIREMENTS, RESULTING IN SUBSTANTIAL FUEL SAVINGS.

Real time operating data was collected on several vehicle applications for the overall vehicle and electrical system. The following chart shows the fuel cost savings over a typical life cycle by increasing the alternator efficiency from 60% to 70%.

FUEL SAVINGS				
Vehicle Type & Miles Driven	Average Current	Fuel Cost with a 60% Efficient Alternator	Fuel Cost with a 70% Efficient Alternator (40SI)	Savings
Line Haul Tractor (500k mi)	84 Amps	\$4,534	\$3,778	\$756
City Tractor (350k mi)	40 Amps	\$2,235	\$1,863	\$372
School Bus (250k mi)	102 Amps	\$9,040	\$7,533	\$1,057

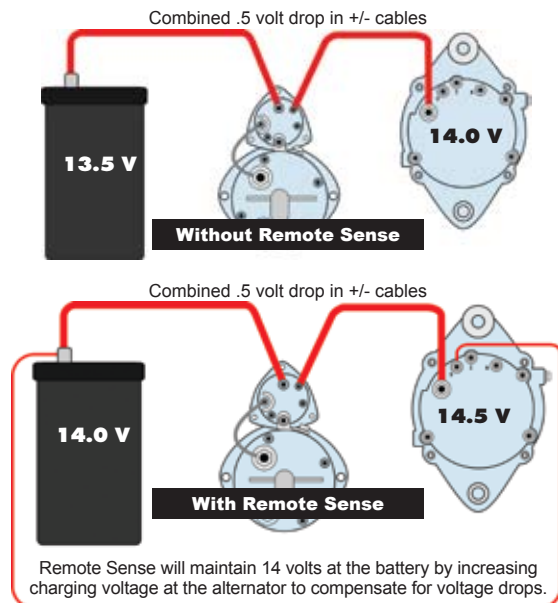
Based on diesel fuel at \$4/gal

REMOTE SENSE CAN REDUCE BATTERY CHARGE TIME BY 50%

Due to resistance in battery cables, environmental factors and other conditions, the voltage from the alternator drops by the time it reaches the battery. Just because the alternator is sending 14 volts doesn't mean that the battery is receiving 14 volts.

That's why we've included Remote Sense on all models. With Remote Sense, a second wire reads the actual voltage at the battery and signals the alternator to boost its output to compensate for voltage drop ensuring 14 volts at the battery.

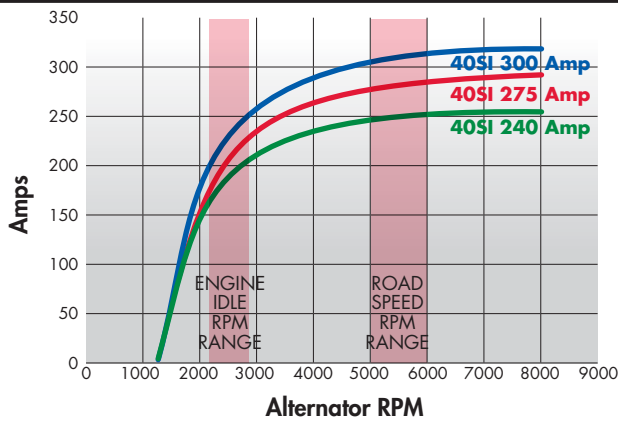
Research has shown that an increase of just ½ volt, when needed, can cut the battery charge time in half. At the end of the day, it can make the difference between batteries that are fully charged and those that aren't.



40SI SPECIFICATIONS

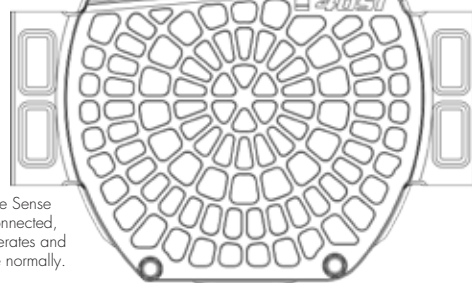
Performance Output	12 Volts 240 Amps (160 Amps at engine idle) 12 Volts 275 Amps (180 Amps at engine idle) 12 Volts 300 Amps (190 Amps at engine idle)
Maximum Speed	8,000 RPM Continuous 10,000 RPM Intermittent
Rotation	Clockwise
Temperature Limits	Low -40°C (-40°F) High 125°C (257°F)
Polarity	Negative Ground
Mounting	J180 Short Hinge Mount J180 Long Hinge Mount Pad Mount
Efficiency	70%
Weight	31 lbs (14.1 kg)

40SI 12 VOLT PERFORMANCE CURVES



40SI INSTALLATION INFORMATION

- Ground Screw (-)
- Indicator/Ignition
- Remote Sense
- Battery (+)
- Relay



NOTE:
When the Remote Sense terminal is not connected, the alternator operates and regulates voltage normally.

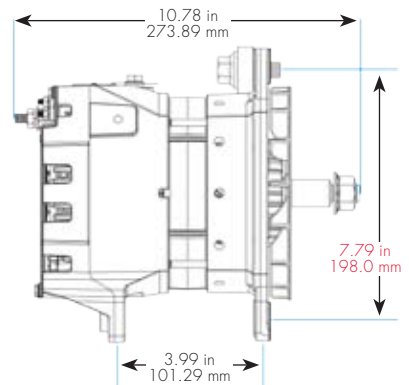
AFTERMARKET WARRANTY

3 Years / Unlimited Miles

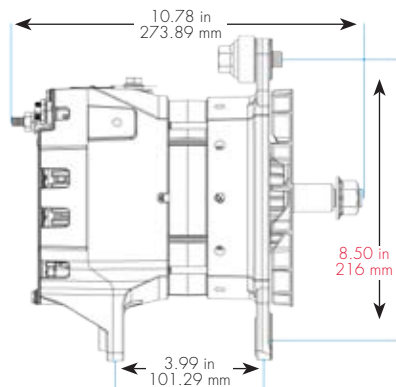
MOUNTING STYLES

The difference between the J180 hinge mount styles is in the distance separating the bolt holes at the front of the alternator. Use an accurate ruler or the gauge at the right edge of this page to measure your existing unit.

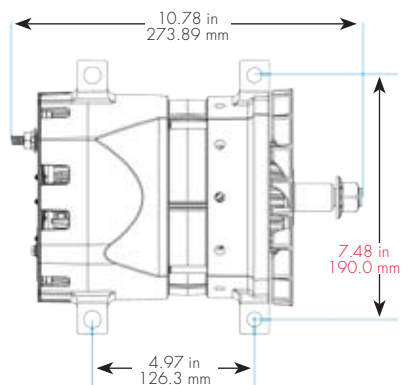
J180 SHORT HINGE MOUNT



J180 LONG HINGE MOUNT



PAD MOUNT



J180 LONG HINGE MOUNT Distance between bolt-hole centers 8.50 in (216.0 mm)

J180 SHORT HINGE MOUNT Distance between bolt-hole centers 7.79 in (198.0 mm)

Competitive Comparison / Cross Reference



40SI™

Raising the bar
for high output
alternators

SIDE-BY-SIDE COMPARISON		
Specs	40SI	Leece Neville
Design	Brushless	Brush
Temperature Rating	125°C	110°C
Average Efficiency	70%	60%
Weight	31 lbs (14.1 kg)	32 lbs (14.4 kg)
Stator Diameter	152 mm	167 mm
Length	252 mm	272 mm
Remote Sense	Yes	No

COMPETITIVE INTERCHANGE DATA					
Mounting	Delco Remy 40SI		Leece-Neville		
	Part #	Output (Amps)	Part #	Sales #	Output (Amps)
Pad	8600338	240	BLP2332GH	BLP2332GH	185
			BLP2334GH	BLP2334GH	
			A0014940PA	4940PA	200
			A0014948PA	4948PA	
			A00149551PGH	4951PGH	220
			A0014958PA	4958PA	
	A0014959PA	4959PA			
	8600094	275	A0014942PA	4942PA	270
			A0014944PA	4944PA	
			A0014947PA	4947PA	
			A0014949PA	4949PA	
			A0014949GH	4949GH	
			A0014975PAA	4975PAA	
	8600298	300	A0014962PA	4962PA	320
			A0014962PAH	4962PAH	
A0014966PAA			4966PAA		
J180 Short Hinge	8600339	240			
	8600279	275			
	8600299	300			
J180 Long Hinge	8600390	240	A0014850AA	4850AA	200
			A0014860AA	4860AA	
			A0014860JB	4860JB	
			A0014861JB	4861JB	
			A0014863JB	4863JB	
			A0014868JGH	4868JGH	
			A0014884JB	4884JB	220
			A0014885JB	4885JB	
			A0014887JB	4887JB	
			A0014852AA	4852AA	240
			A0014869JB	4869JB	245
			A0014873JB	4873JB	
	A0014854AA	4854AA			
	8600280	275	A0014856AA	4856AA	270
			A0014867JB	4867JB	
			A0014867JGH	4867JGH	
			A0014870AA	4870AA	
			A0014870JB	4870JB	
			A0014871JB	4871JB	
			A0014872AA	4872AA	
			A0014872JB	4872JB	
A0014944PA			4942PA		
A0014947PA			4947PA		
8600300	300	A0014890AA	4890AA	320	
		A0014890JB	4860JB		
		A0014892AA	4892AA		

Remy Inc. is a leading global manufacturer of Delco Remy brand heavy duty starters and alternators, light duty starters, and electric motor technology for EV and hybrid vehicles. A powerful legacy for over 100 years, today Remy International is engineering the future of the vehicle industry.



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