

### INNOVATIVE FEATURES

- HIGH EFFICIENCY:

High efficiency means cooler internal alternators operating temperatures resulting in less engine horsepower required and maximizing fuel savings. Our unique air flow design offers a more efficient air flow through the windings which directly translates in maximum output and efficiencies.

- TEMPERATURE RATING:

All our alternators are validated to work and operate in today's ambient air temperatures of up to 125°C / 257°F

- DEBRIS FREE & COOLER OPERATION:

For high debris or high temperature environments, all DelStar series alternators are available with an optional Air Intake Cover by adding the letter "D" after the part No. The Ducted air allows filtered or fresh air flow to the unit which will improve output, efficiency and extends the alternator service life.

- SOFT START DELAY (SSD)  
& LOAD RESPONSE CONTROL (LRC):

Again "SETTING the STANDARD" with a newly introduced SMART REGULATOR where at engine start up, the regulator monitors the (low) engine RPM, it controls and gradually introduces alternator output to eliminate engine torque decrement due to a sudden and abrupt load transition at low RPM.

- OVERVOLTAGE SHUT-DOWN (OSD):

Designed to protect onboard electronics that are very sensitive to high voltage conditions, by shutting down the alternator output and restoring output only when the voltage is stabilized to or below the regulator voltage set point.

### APPLICATIONS:

- School & Shuttle Buses
- Marine & Mining
- Emergency Vehicles
- Utility Vehicles
- Agricultural & Industrial
- Construction

**WARRANTY:** 3 Years Limited Warranty

*The DelStar Series alternators are an integral charging system of an innovative brushless design. The compact, heavy duty construction, provides increased service life expected to match the longer maintenance intervals of today's engines, while providing a performance level without parallel.*

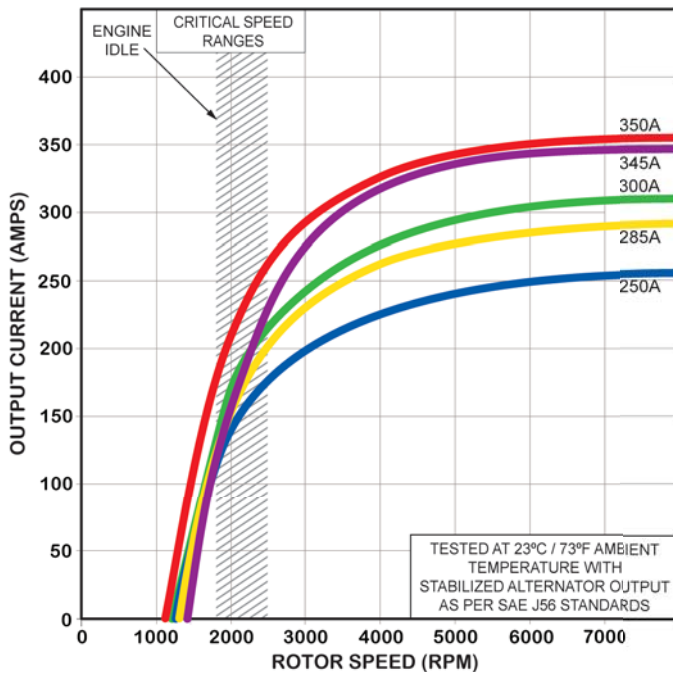




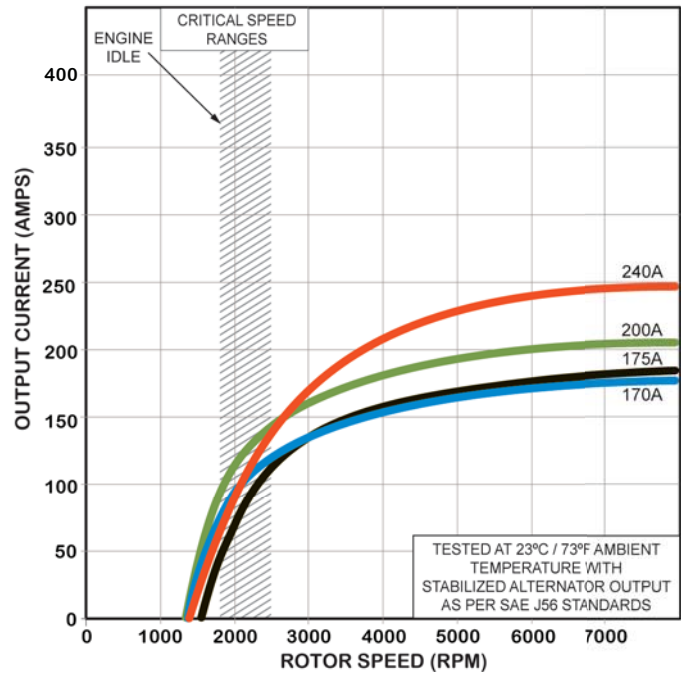
### SPECIFICATIONS

- SAE J180 4" Hinge & Pad mounts.
- Ground: Isolated
- Rotation: Bidirectional
- Temperature limits:
  - Low -40°C / -40°F
  - High 125°C / 257°F
- RPM limits: 8,000 RPM continuous  
9,000 RPM intermittent
- Corrosion-Resistant E-Coated
- Weight: 38 Lbs. / 17.4 Kg.
- Internal Voltage Regulator
- Self-Excited
- Indicator Light
- Remote Sense
- Soft Start Delay (SSD)
- Load Response Control (LRC)
- Field Short Circuit Protection
- Load Dump Protection
- Overvoltage Shut-Down (OSD)

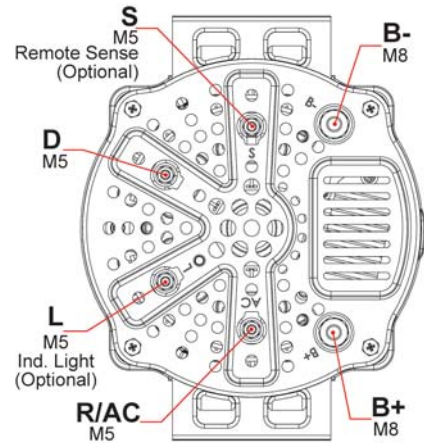
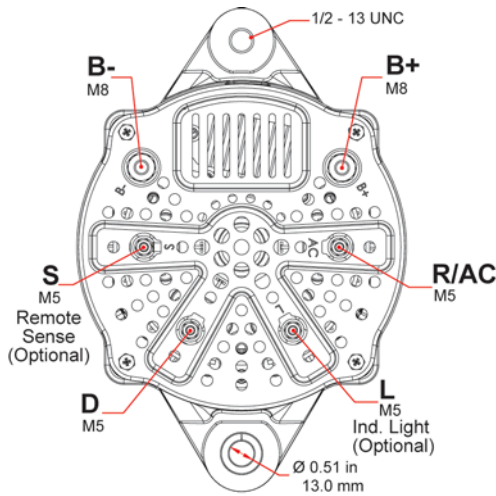
#### PERFORMANCE CURVES - 12V



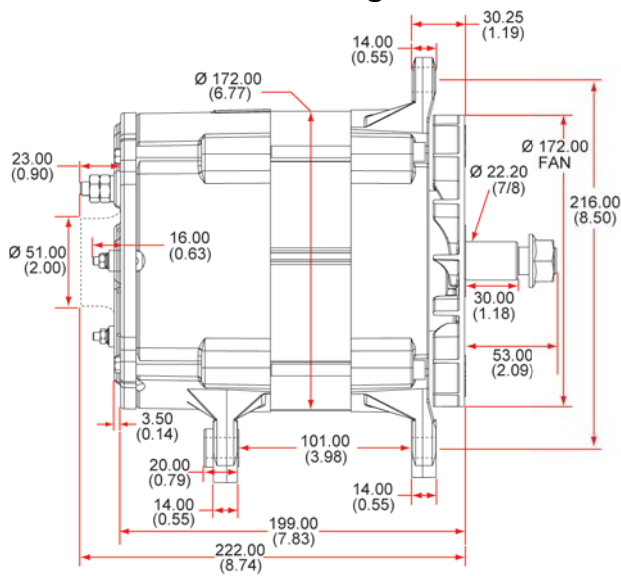
#### PERFORMANCE CURVES - 24V



#### CONNECTIONS

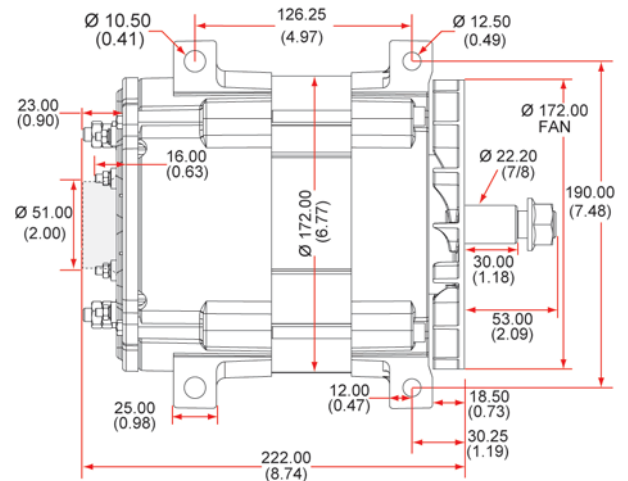


#### J180 4" Hinge Mount



#### OUTLINE

#### PAD Mount



Dimensions are listed in mm over (in)

J180 ALTERNATOR No.	Series	Amps Output @ 2000 / 6000 rpm		
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100-17102,-D	170	12V	210 / 350A	Negative
100-17105,-D	170	12V	210 / 350A	Ins. Grd., Ext.V.Reg.
100-17106,-D	170	12V	170 / 300A	Negative
100-17107,-D	171	12V	145 / 250A	Negative
100-17108,-D	171	12V	157 / 375A	Negative
100-17109,-D	171	12V	150 / 285A	Negative
100-17202,-D	170	24V	114 / 200A	Ins. Grd.
100-17203,-D	170	24V	95 / 170A	Ins. Grd.
100-17204,-D	170	24V	90 / 240A	Ins. Grd.
100-17206,-D	170	24V	114 / 200A	Ins. Grd., Ext.V.Reg.
100-17207,-D	170	24V	95 / 170A	Ins. Grd., Ext.V.Reg.
100-17208,-D	170	24V	90 / 240A	Ins. Grd., Ext.V.Reg.
100-17209,-D	171	24V	70 / 175A	Ins. Grd.

PAD ALTERNATOR No.	Series	Amps Output @ 2000 / 6000 rpm		
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100-17112,-D	170	12V	210 / 350A	Ins. Grd.
100-17113,-D	171	12V	145 / 250A	Negative
100-17115,-D	170	12V	170 / 300A	Negative
100-17116,-D	170	12V	210 / 350A	Ins. Grd., Ext.V.Reg.
100-17117,-D	171	12V	157 / 375A	Negative
100-17119,-D	171	12V	150 / 285A	Negative
100-17212,-D	170	24V	114 / 200A	Ins. Grd.
100-17213,-D	170	24V	95 / 170A	Ins. Grd.
100-17214,-D	170	24V	90 / 240A	Ins. Grd.
100-17216,-D	170	24V	114 / 200A	Ins. Grd., Ext.V.Reg.
100-17217,-D	170	24V	95 / 170A	Ins. Grd., Ext.V.Reg.
100-17218,-D	170	24V	90 / 240A	Ins. Grd., Ext.V.Reg.
100-17219,-D	171	24V	70 / 175A	Ins. Grd.

NOTE: Add suffix "-D" for optional air intake cover

### COMPETITIVE INTERCHANGE

DELSTAR Brushless				Delco Remy Brushless		Leece-Neville Brush Design		C.E. Niehoff Brushless		
Mounting	Part No.	Series	Amps Output @ 2000 / 6000 rpm	40SI Series Part No.	Amps Output @ 2000 / 6000 rpm	4000 Series Sales No.	Amps Output @ 2000 / 6000 rpm	C Series Part No.	Amps Output @ 2000 / 6000 rpm	
	100-17113	171	12V 145 / 250A	8600338	100 / 240A	4940PA	125 / 200A			
						4948PA				
	100-17119	171	12V 152 / 285A	8600094	100 / 275A	4951PAH	140 / 220A			
						4958PA				
	100-17115	170	12V 170 / 300A	8600298	125 / 300A		4959PA	140 / 245A	C524	180 / 300A
							4911PA			
	100-17117	171	12V 157 / 345A	8600628	150 / 320A		4913PA	150 / 320A		
							4962PA, H			
	100-17112	170	12V 210 / 350A	8600628	150 / 320A		4962PGH	183 / 325A		
							4942PA			
100-17212	170	24V 114 / 200A				4947PA	212 / 350A	C528	24V 100 / 175A	
						4964PA				
	100-17107	171	12V 145 / 250A	8600390	100 / 240A	4989PGH	100 / 200A			
						4860JB				
						4861JB				
	100-17109	171	12V 152 / 285A	8600280	100 / 275A		4863JB	140 / 220A		
							4868JGH			
							4884JB			
	100-17106	170	12V 170 / 300A	8600280	100 / 275A	8600300	4885JB	150 / 270A	C330	160 / 250A
							4887JB			
	100-17108	171	12V 157 / 345A	8600634	150 / 320A		4869JB	150 / 320A		
							4873JB			
100-17102	170	12V 210 / 350A	8600634	150 / 320A		4867JB	150 / 320A			
						4870JB				
100-17202	170	24V 114 / 200A				4871JB	100 / 200A			
						4871JB				

\* Brushless Design

For additional cross reference information visit our website e-Cat: [www.dixie-electric.com](http://www.dixie-electric.com)

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