

DelStar®

MADE IN CANADA

HD Brushless

Series 180

7"/180mm Hinge T1 Mount

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.



Series 180

PRODUCT FEATURES

- **UNIQUE DUAL ROTOR BRUSHLESS CONSTRUCTION**

Extends the service life and increases durability by eliminating: Brushes, Slip Rings and the Rotating Winding.

- **HIGH OUTPUT DESIGN**

Producing more than 65% of its rated power at engine idle makes this an efficient alternator capable of handling the high electrical load demands at low alternator (rotor) RPM.

- **HIGH EFFICIENCY**

Means less engine power required for the electrical load, directly resulting in less fuel consumption.

- **LONG LIFE BEARINGS**

The 180 Series 7" Mount has been engineered for superior reliability. Featuring two 30mm High-Temperature, front ball bearings, capable of withstanding extreme belt loads and temperatures imposed by today's severe applications.

- **HIGH TEMPERATURES**

Designed to endure high temperature environments of 110°C / 230°F, or by allowing cooler outside air to flow directly into the alternator through the "Fresh Air Intake Cover" increases the operating limits to 125°C / 257°F.

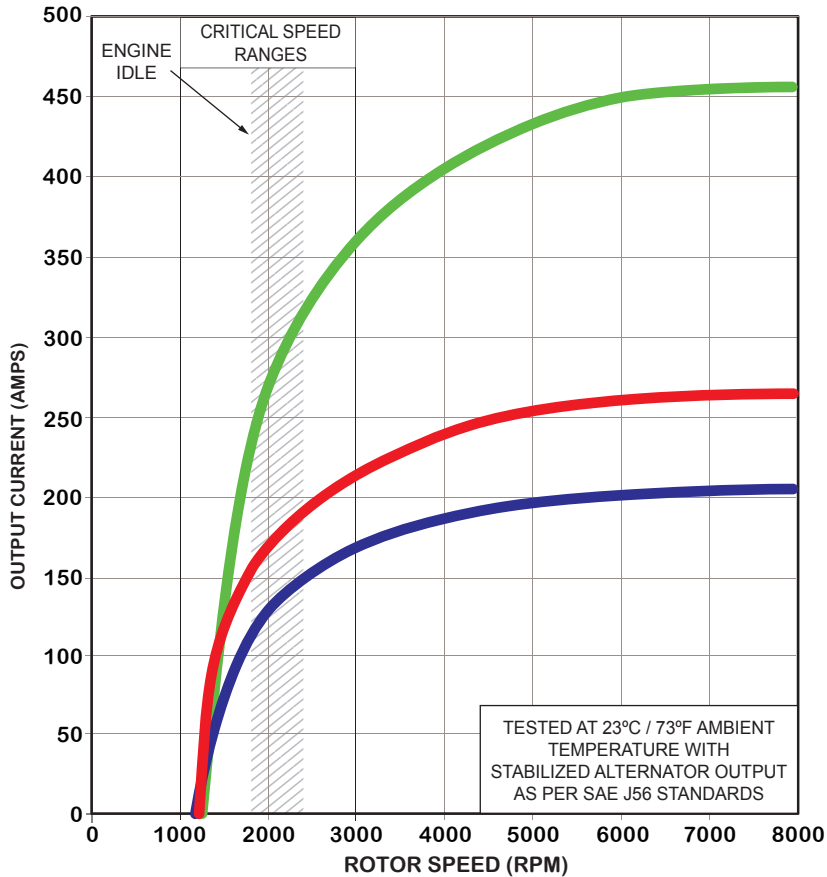
AVAILABLE MODELS:

- 12 Volts 450 Amps, Negative or Insulated
- 24 Volts 265, 200 Amps, Negative or Insulated

APPLICATIONS:

- Coach & Transit Buses
- Emergency Vehicles
- Marine, Mining
- Construction, Industrial

PERFORMANCE CURVES



SPECIFICATIONS

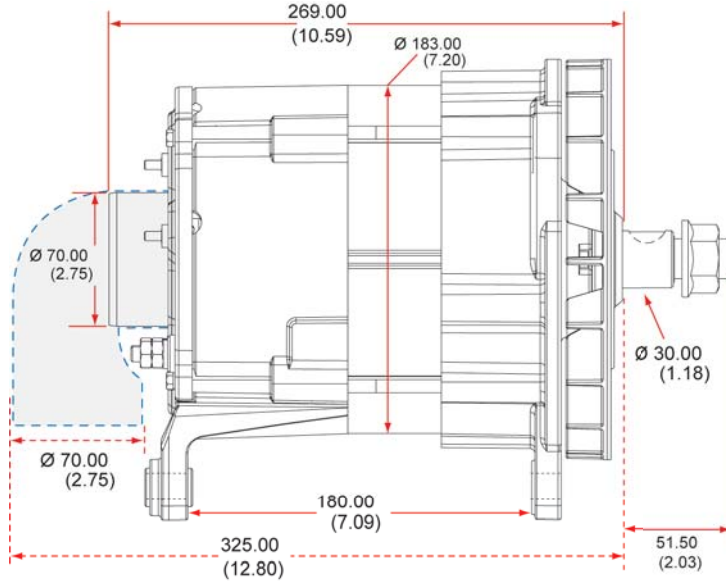
- 7"/180mm hinge (T1) Mount
- Rotation: Bidirectional
- Internal Voltage Regulator
- Self-excited one wire connection
- Relay/AC terminal
- Indicator light terminal
- Sense terminal (Remote)
- Temperature limits:
 - Low -40°C / -40°F
 - High 110°C / 230°F
 - High 125°C / 257°F (with fresh air intake)
- Speed limits: 8,000 RPM continuous
9,000 RPM intermittent
- Weight: 51 Lbs. / 23 Kg.

CRITICAL SPEED RANGES

12V	450A	24V	265A	200A
RPM	AMPS	RPM	AMPS	AMPS
1800	220	1800	155	116
2000	270	2000	165	131
3000	359	3000	212	169
4000	406	4000	237	187
5000	434	5000	256	194
6000	450	6000	265	200

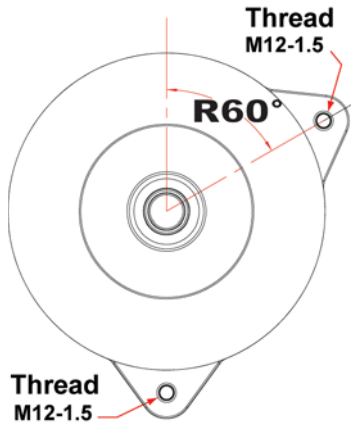
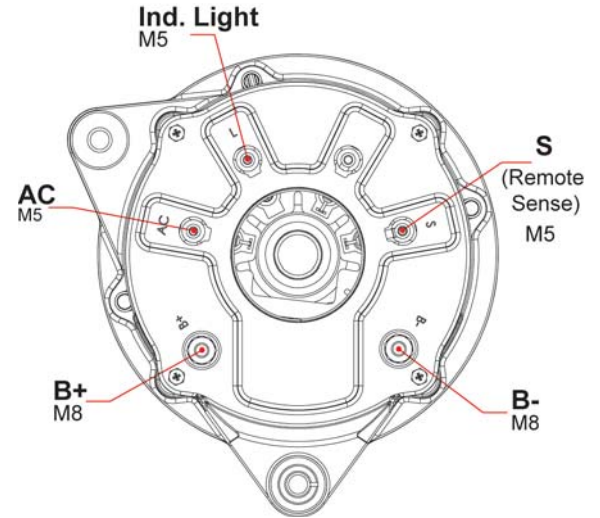


OUTLINE

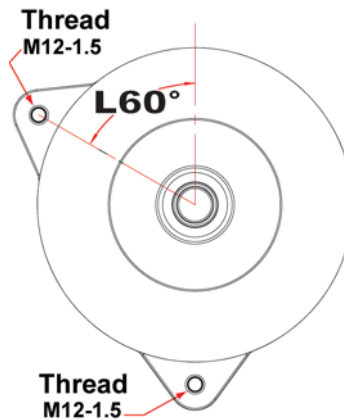


Dimensions are listed in mm over (in)

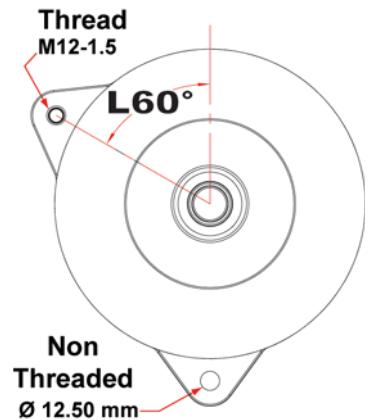
WIRING



RIGHT 60°



LEFT 60°



LEFT 60°

R60° ALTERNATOR No.	Amps Output @ 2000/6000 rpm		
100-18121	12V	270 / 450A	
100-18221	24V	130 / 200A	
100-18223	24V	165 / 265A	
100-18225	24V	130 / 200A	Ins. Grd.
100-18227	24V	165 / 265A	Ins. Grd.

L60° ALTERNATOR No.	Amps Output @ 2000/6000 rpm		
100-18222	24V	130 / 200A	
100-18224	24V	165 / 265A	
100-18226	24V	130 / 200A	Ins. Grd.
100-18228	24V	165 / 265A	Ins. Grd.

L60° ALTERNATOR No.	Amps Output @ 2000/6000 rpm		
100-18122	12V	270 / 450A	
100-18229	24V	130 / 200A	
100-18230	24V	165 / 265A	
100-18231	24V	130 / 200A	Ins. Grd.
100-18232	24V	165 / 265A	Ins. Grd.

COMPETITIVE INTERCHANGE

DELSTAR™ Brushless			Bosch Brush Design		Delco Remy Brush Design		Prestolite Brush Design						
Mounting	180 Series (T1) Part No.	Amps Output @ 2000 / 6000 rpm	T1 Series Part No.	Amps Output @ 2000 / 6000 rpm	T1 Style Part No.	Amps Output @ 2000 / 6000 rpm	AC172 Series Sales No.	Amps Output @ 2000 / 6000 rpm					
	100-18221	24V 130 / 200A	0 120 689 507	120 / 140A	19025333	120 / 140A	1277A720	115 / 155A					
	100-18223	24V 165 / 265A	0 120 689 517										
			0 120 689 522										
			0 120 689 527										
			0 120 689 540										
			0 120 689 541										
		0 120 689 542	0 120 689 546	0 120 689 567	19025336	120 / 140A							
	100-18225	24V 130 / 200A Ins.	0 120 689 536	150 / 180A Ins.									
	100-18227	24V 165 / 265A Ins.	0 120 689 544										
			0 120 689 554										
			0 120 689 589										
	100-18222	24V 130 / 200A	0 120 689 503	120 / 140A	19025330	120 / 140A	1277A640	115 / 155A					
	100-18224	24V 165 / 265A	0 120 689 508										
			0 120 689 512										
			0 120 689 513										
			0 120 689 520										
			0 120 689 530										
			0 120 689 533										
			0 120 689 535										
			0 120 689 571										
			0 120 689 534						0 120 689 555	0 120 689 558			
	100-18226	24V 130 / 200A Ins.	0 120 689 554	120 / 140A Ins.									
	100-18228	24V 165 / 265A Ins.	0 120 689 555										
			0 120 689 578	0 120 689 590									
			0 120 689 547	150 / 180A Ins.									
			0 120 689 556										
			0 120 689 557										
			0 120 689 590										
	100-18229	24V 130 / 200A	0 120 689 511	120 / 140A	19025331	120 / 140A	1277A680	115 / 155A					
	100-18230	24V 165 / 265A	0 120 689 548										
			0 120 689 552										
			0 120 689 566										
			0 120 689 531						0 120 689 545	0 120 689 557			
		100-18231	24V 130 / 200A Ins.						0 120 689 531	120 / 140A Ins.			
		100-18232	24V 165 / 265A Ins.						0 120 689 545				
									0 120 689 557				
			0 120 689 564										

IMPORTANT : Ensure alternator cables are adequate to handle the alternator output current.
Voltage drop between Alternator B+ (Output Terminal) and Battery B+ (Positive Terminal) should not exceed 0.5 Volts drop at full alternator output.

For additional cross reference information visit our website e-Cat: www.dixie-electric.com

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