BALMAR®
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DC CHARGING SOLUTIONS

XT-Series Alternators

For WakeBoat and Inboard Gas Applications

- **170A in a Small Case Package**
- **Up to 110A at Idle Speeds**
- **Ideal for High Electrical Load Vessels**
- **Custom High Speed Bearings for Long Life**
- **Dual Fan Cooling, High Airflow Frame**
- **USCG Title 33, ISO 8846 and SAE J1171 Certified**

NEW

170A Single Foot (11Si)

170A Vortec Mount (9Si)

New **XT-Series Alternators** from Balmar bring together the latest innovations in alternator design to deliver incredible charging power in a compact, Marine-friendly package.

Over 60% of WakeBoat run times are at idle speed. Many high current electrical loads are engaged at idle, including ballast pumps, high-output stereo systems and multiple instrumentation loads. Standard alternators only produce about 30A-40A at idle speed, leaving these loads to be serviced by onboard batteries. Excessive draining causes battery sulfation and reduced lifetimes. Dealers report that AGM batteries which should last 5-7 years on these vessels are being replaced annually. The **XT-Series Alternator** produces over 100A at idle speed – ample power to service all electrical loads with power left over to top-off house batteries. The XT-Series pays for itself in reduced battery replacement costs in just one year!

Available XT-Series mounting styles are drop-in compatible for WakeBoat and other GM gasoline engine applications and include both 2“ Single Foot (Delco 11Si Style) and Vortec (Delco 9Si Style) designs.

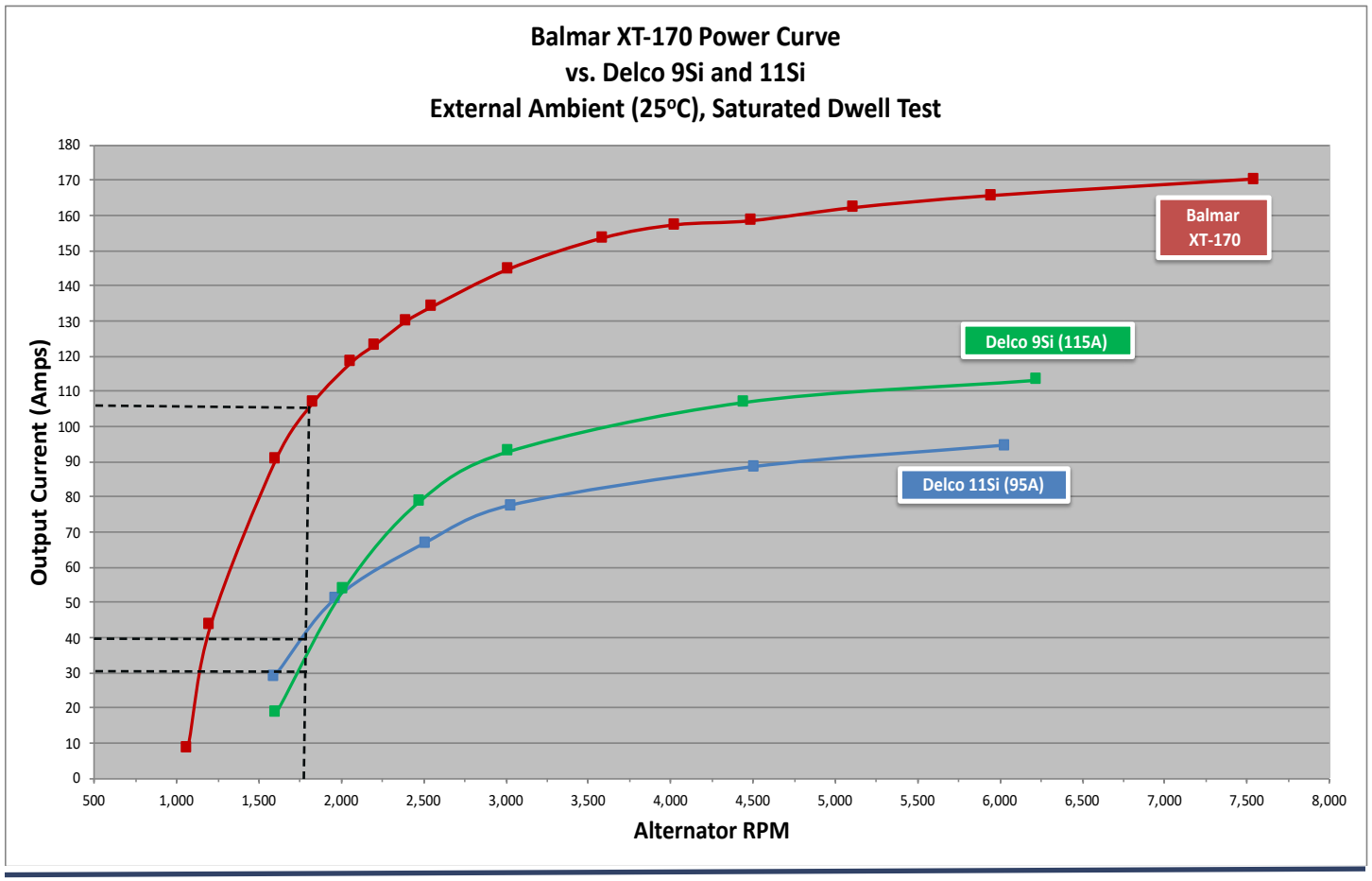
Ordering Information:

XT-Series Output	Power Take Off	Mounting	Alternator Part Number[1]	Standard Pulley
170 A	5.2 HP	1-2” Single Foot (Case Grd)	XT-SF-170-IR	K6 (2.4” dia.)
		1-2” Single Foot (Iso Grd)	XT-SF-170-IR-IG	
		Vortec (Case Grd)	XT-VT-170-IR	
		Vortec (Iso Grd)	XT-VT-170-IR-IG	

[1] These Alternators contain single stage, internal regulators and are not appropriate for use with Balmar’s multi-stage external regulators. Contact Balmar Tech Service for more details.

Comparative Output Curves

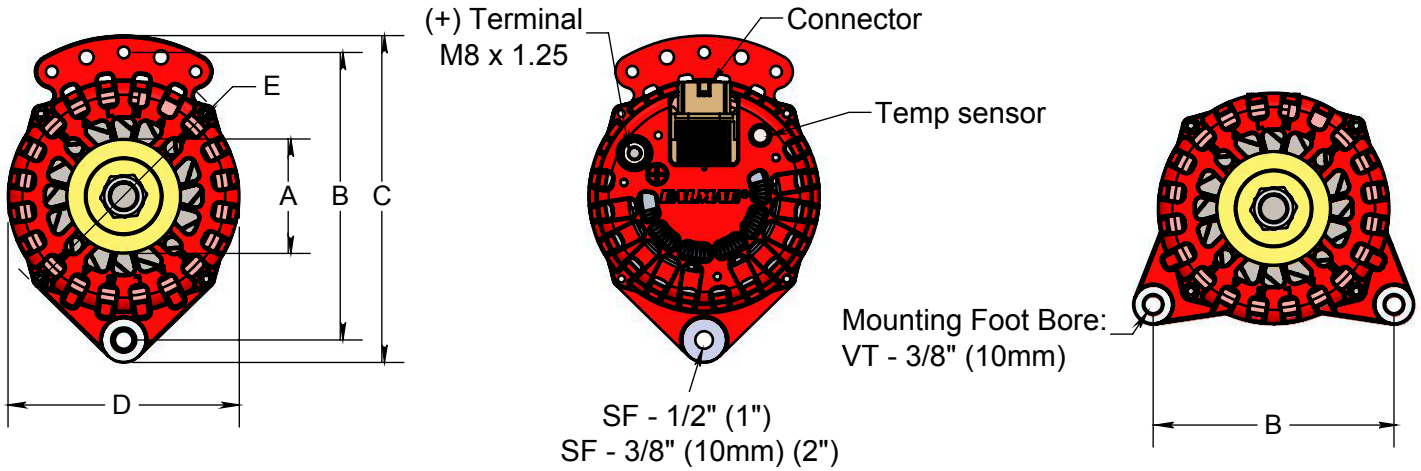
Alternator output is dependent upon a number of factors: battery condition and capacity, wire size, engine horsepower and RPM, battery temperature and alternator temperature. Of these factors, alternator speed and temperature are most important. Test voltages are set at 14.0V.



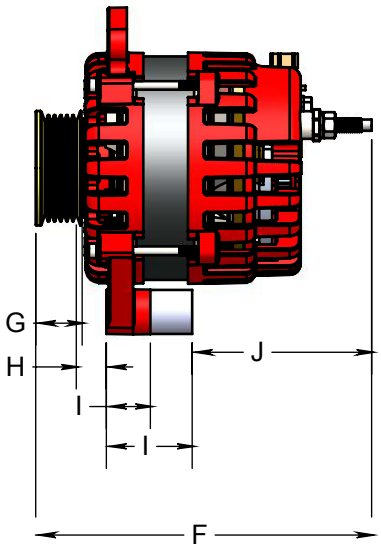
XT-Series Alternator Specifications

Alternator Style: Small Case, Internally Regulated	**Mounting Styles**: XT-VT Series: Vortec Style XT-SF Series: 1" or 2" Single Foot (Spindle)
Regulation: Internal N-Type	
Cooling: Dual Internal Fans	**Positive Output**: Threaded Stud Stud Dimensions: M8 x 1.25
Bearings: Sealed, Motor Quality Bearings, Heavy Duty Radial (front & rear). 18,000 RPM Continuous Rating	**Grounding**: Case Ground Standard, Auxiliary Threaded Stud Dimensions: M6 x 1.00" Isolated Ground Available
Case Construction: Ventilated Cast Aluminum	**AC/Stator Output**: None
Finish: Red Power Coat	**Diodes +/-**: 6 Positive, 6 Negative; 50A Rated, 24V Avalanche
Tensioning Arm Mount: XT-SF Series: Five Position Crown (3x: M8 x 1.25, 2x: 8mm)	**Internal Voltage Regulation**: 14.7 Volts (12V systems)
Mounting Foot Bore: XT-VT-Series: 2x 10mm (3/8") XT-SF-Series 1 inch: ½", SF-Series 2 inch: 10mm (3/8")	**Low RPM Cut-In**: 1,300 Alternator RPM Max **Max Alternator RPM**: 18,000 rpm
Ignition Protection Ratings: USCG Title 33, SAE J1171, CE, ISO 8846	**Normal Operating Temperature**: 180°F / 82°C **Max Operating Temperature**: 225°F / 108°C

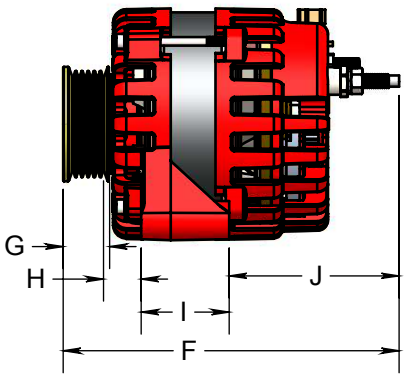
XT-170-Series Dimensions



XT-SF-170-IR



XT-VT-170-IR



ITEM	DESCRIPTION	IN.	mm
A	K6 (serpentine) Pulley Dia.	2.42	61
B	Mounting Hole (VT)	5.47	138
	Mounting Hole (SF)	6.53	166
C	Overall Height	7.43	188
D	Case Diameter	5.26	134
E	Mounting Ear to Mounting Ear	5.70	144
F	Overall Length w/ K6 Pulley	7.76	197
G	K6 Pulley Width	1.30	33

ITEM	DESCRIPTION	IN.	mm
H	First Groove to Mounting (SF)	0.85	21.6
	First Groove to Mounting (VT)	0.85	21
I	Foot Thickness (SF) 1”	1.00	25
	Foot Thickness (SF) 2”	1.95	49
	Foot Thickness (VT)	2.00	50
J	Foot to (+) Terminal (SF) 1”	5.03	127
	Foor to (+) Terminal (SF) 2”	4.08	103
	Foot to (+) Terminal (VT)	3.86	98