

6-Series Alternators

Designed for Recreational Applications

- Balmar's Top Selling Alternator Line
- 100A and 120A Versions
- Patented Smart Ready® Technology
- Dual Fan Cooling
- High Airflow Frame
- Maximum RPM: 12,000
- USCG Title 33, ISO 28846 and SAE J1171 Certified
- Ideal for Modest Charging Upgrades

Balmar **6-Series Alternators** deliver high-output performance in a compact, small-case package and are available in all four common mounting configurations (see page 6).

While all Balmar's high-output alternators are designed and recommended for use with our multi-stage voltage regulators, the 6-Series Alternator utilizes Balmar's Smart Ready® Technology. If battery loads are relatively small and your engine is running frequently, the alternator's internal regulator may be sufficient to support your electrical needs without external regulation. If your vessel utilizes larger deep-cycle battery banks or the engine's duty cycle is less frequent (as is the case in most sailing applications), the 6-Series Alternator combines and works seamlessly with Balmar's ARS-5 Voltage Regulator or Max Charge Voltage Regulator.

Purchased either individually or as a charging kit, 6-Series Alternators can solve a multitude of charging problems at a reasonable price. All kits come with alternator, regulator and two temperature sensors.



Smart Ready® 6-Series



Charging Kit

6-Series Output	Power Take Off	Mounting	Individual Alternator Part Number	Alternator Kit with Max Charge Regulator	Altmount® Pulley Kit Required?
100A	4.0 HP	1-2" Spindle	621-100-XX	621-VUP-MC-100-XX	No
		3.15" Saddle	60-100-XX	60-YP-MC-100-XX	
120A	4.8 HP	1-2" Spindle	621-120-XX	621-VUP-MC-120-XX	Yes, If Dual Vee or Serp is Not Present <i>See Page 15</i>
		3.15" Saddle	60-120-XX	60-YP-MC-120-XX	
70A, 24V	4.3 HP	1-2" Spindle	621-24-70-XX	621-VUP-24-70-XX	
		3.15" Saddle	60-24-70-XX	60-YP-24-70-XX	

- (1) "XX" Pulley Designations: "SV" = 1/2" Single Vee, "DV" = 1/2" Dual Vee, "K6" = K6 Serpentine, "J10" = J10 Serpentine.
- (2) A Max Charge Regulator Kit is required for 24 volt, Dual-Alternator or Twin Engine Applications.
- (3) Additional 6-Series mounting styles (J-180) are available and listed on Page 30.
- (4) All Dual Foot Yanmar Kits include 6-0020 mounting kit.
- (5) Yanmar Common Rail and newer Volvo engines require the 61-0050 K6 pulley.

XT-Series Alternators

Designed for Recreational Applications

- 170A or 250A in a Small Case Package
- Up to 180A at Idle Speeds
- Patented Smart Ready® Technology
- Dual Fan Cooling, High Airflow Frame
- Ideal for Lithium Battery Banks
- USCG Title 33, ISO 8846 and SAE J1171 Certified



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



Advanced Braided Stator

The **New XT-Series Alternator** family features a state-of-the-art, braided wire stator design to generate exceptional output in the smallest possible area. Available XT-Series mounting styles have been expanded to include a “Common Rail” design found on new production Yanmar engines.

XT-Series Alternators feature 96 slots - compared to 36 slots in a traditional S-wound stator – allowing the stator to develop superior electromagnetic energy and efficiency compared to traditional stator designs. The XT-170 and XT-250 are designed to deliver superior performance at idle speeds - up to 128A and 186A, respectively for 12V applications.

XT-Series Alternators may require a Tachometer Signal Stabilizer (Part No. 15-TSS) if your current tach is not adjustable. XT-Series Alternators should only be used in Dual Vee or Multi-Groove Serpentine belt configurations. Balmar’s range of **AltMount® Serpentine Pulley Conversion Kits** support **XT-Series Alternators**.

XT Series Output	Power Take Off	Mounting	Individual Alternator Part Number	Alternator Kit with Max Charge Regulator	Altmount® Pulley Kit Required?
170A	5.2 HP	1-2" Spindle	XT-SF-170-XX	XT-SF-170-XX-KIT	Yes, If DV or Serpentine is Not Present See Page 15
		3.15" Saddle	XT-DF-170-XX	XT-DF-170-XX-KIT	
		3.15" Saddle	XT-CR-170-XX	XT-CR-170-XX-KIT	
		4" Saddle	XT-DF4-170-XX	XT-DF4-170-XX-KIT	
250A	6.6 HP	1-2" Spindle	XT-SF-250-XX	XT-SF-250-XX-KIT	
		3.15" Saddle	XT-DF-250-XX	XT-DF-250-XX-KIT	
		3.15" Saddle	XT-CR-250-XX	XT-CR-250-XX-KIT	
		4" Saddle	XT-DF4-250-XX	XT-DF4-250-XX-KIT	
90A, 24V	4.8 HP	1-2" Spindle	XT-SF-24-90-XX	XT-SF-24-90-XX-KIT	
		3.15" Saddle	XT-DF-24-90-XX	XT-DF-24-90-XX-KIT	
		4" Saddle	XT-DF4-24-90-XX	XT-DF4-24-90-XX-KIT	

(1) “XX” Pulley Designations: “DV” = 1/2” Dual Vee, “K6” = K6 Serpentine, “J10” = J10 Serpentine.

(2) Kit Includes XT-Series Alternator, Max Charge Regulator (MC-618-H) and Temperature Sensors (MC-TS-A, MC-TS-B).

(3) The XT-Series Alternator may require a Tachometer Signal Stabilizer (Part No. 15-TSS) if your current tach is not adjustable.

(4) All Dual Foot Yanmar Kits include 6-0020 Mounting Kit.

(5) The “CR” design is provided for Yanmar Common Rail engines