

# AT-SERIES ALTERNATORS

DUAL FAN COOLING

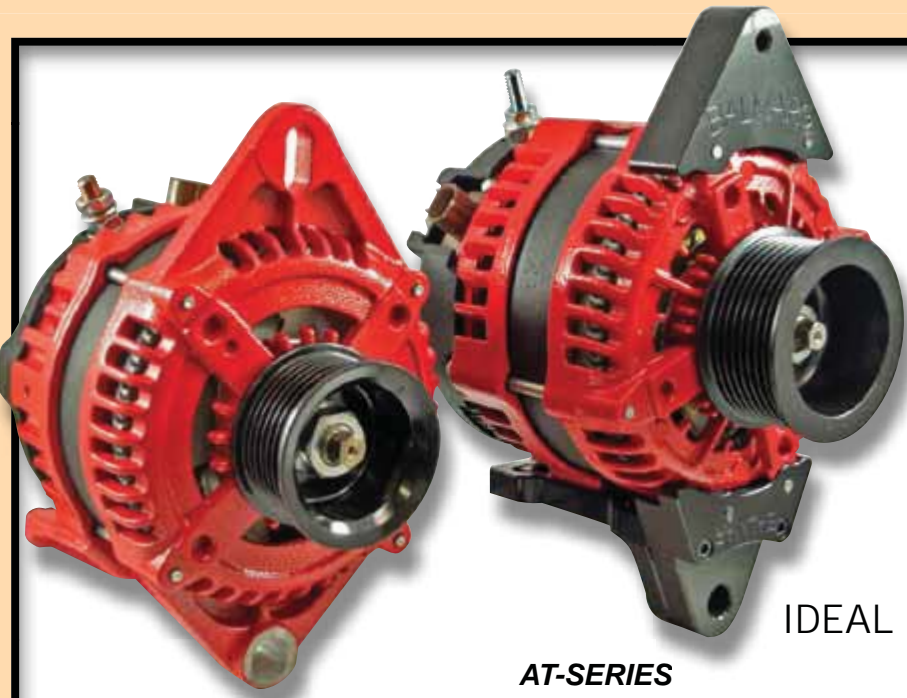
UP TO 125A AT IDLE

25% MORE EFFICIENT

HIGH AIRFLOW FRAME

MOST POPULAR MOUNTS

IDEAL FOR HIGH TECH BATTERIES



## AT-SERIES

ADVANCED TECHNOLOGY ALTERNATORS

Welcome to the newest generation of high output alternator technology!

Balmar AT-Series alternators bring together the latest innovations in alternator design to deliver incredible charging power in a compact, marine friendly package.

AT-Series alternators feature a unique hairpin stator design which uses densely-wound square copper wire to generate exceptional output in the smallest area possible. Hairpin stators feature 96 slots, compared to 36 slots in S-wound stators, allowing the hairpin wound stator to develop superior electromagnetic energy and efficiency superior to other traditional alternator designs.

New AT-Series alternators feature a dozen 50-amp capacity, externally-mounted avalanche diodes, dual internal fans, and massive heat sinking designed to ensure essential cooling under high load demands.

Scaled to fit in most original-position installations, 129 mm, 165-amp AT-Series alternators are available in 3.15"ID dual foot, and 1" and 2" single-foot mounting styles. Larger, 200-amp alternators are housed in a 139 mm diameter frame and feature a single 2" mounting foot or a 3.15"ID dual foot mount.

AT-Series alternators are designed to be used with Max Charge MC-614 voltage regulators, and should only be used in dual vee belt or multi-groove serpentine belt applications. New Balmar serpentine pulley kits provide the ability to upgrade many engine models to support AT-Series alternators.



**TRADITIONAL S-WOUND STATOR**



**ADVANCED HAIRPIN STATOR**

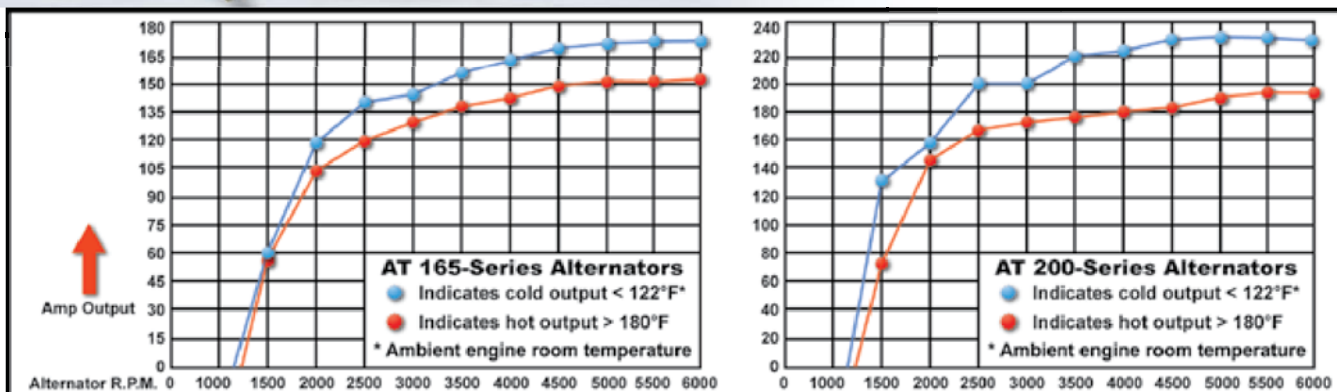
SEE PAGE 8 FOR DETAILED ALTERNATOR MOUNTING AND SIZING RECOMMENDATIONS

# AT-SERIES ALTERNATOR PACKAGES



AT-Series packages combine high output 165-amp or 200-amp AT-Series alternators with our intelligent MC-614 multi-stage regulator, along with alternator and battery temperature sensors, to deliver a pre-matched system that's ready to take on the tough charging challenges. Packages are available in single-foot, or dual-foot saddle style mounting configurations.

- ENGINEERED FOR HIGH-DEMAND ELECTRICAL SYSTEMS
- EXTREME LOW-RPM OUTPUT
- SINGLE-FOOT AND DUAL-FOOT SADDLE MOUNTS



## AT-Series Alternators

Model #	Mounting Style	Alt. Output @ 2,000 rpm (Idle)*	Alt. Output @ 6,000 rpm (Cruise)	Max. Rated Output Amps	Frame Diameter	Voltage Regulation
AT-SF-165-12-IG	Sgl. Ft. 1 1/2"	75	155	165A	129mm	External only
AT-SF-200-12-IG	Sgl. Ft. 2"	125	189	200A	139mm	External only
AT-DF-165-12-IG	Dual Ft. 3.15"ID	75	155	165A	129mm	External only
AT-DF-200-12-IG	Dual Ft. 3.15"ID	125	189	200A	139mm	External only

## AT-Series Packages

Model #	Description
AT-SF-165-12-MC-KIT	Single Foot (1" or 2") 165A alternator, MC-614-H voltage regulator & harness, MC-TS-A, MC-TS-B
AT-DF-165-12-MC-KIT	Dual Foot (3.15"ID Saddle) 165A alternator, MC-614-H voltage regulator & harness, MC-TS-A, MC-TS-B, 6-0020 hardware kit
AT-SF-200-12-MC-KIT	Single Foot (2") 200A alternator, MC-614-H voltage regulator & harness, MC-TS-A, MC-TS-B
AT-DF-200-12-MC-KIT	Dual Foot (3.15"ID Saddle) 200A alternator, MC-614-H voltage regulator & harness, MC-TS-A, MC-TS-B, 6-0020 hardware kit

## AT-Series Offshore Repair Kits

Model #	Description
AT-165-Spares	Includes brush pack, front/rear bearings, diode pack for AT-165 alternator
AT-200-Spares	Includes brush pack, front/rear bearings, diode pack for AT-200 alternator