

BALMAR 7-SERIES ALTERNATOR DATA SHEET

REVISED 05/15/09

Balmar's 7-Series, dual internally fanned alternators are an ideal solution for improved charging performance on a wide range of marine gasoline or diesel engines.

Available in outputs ranging from 80-amp to 110-amps, 7-Series alternators support 12-volt battery banks of up to 500 amp hours. Designed for use with Balmar Max Charge or ARS-5 multi-stage voltage regulators, 7-Series models offer low amperage cut in and the ability to rotate at speeds to 18,000 rpm.

7-Series alternators are available in three mounting configurations; a 3.15" saddle mount that's typical of Yanmar engines, a single 1" Motorola style foot and 2" Delco style mounting foot.

Because of their ability to spin safely at high rotation speeds, 7-Series alternators are uniquely capable of supporting the demands of high performance marine engines -- so they are an excellent choice for use on wakeboard boats, ski boats and other trailer boats equipped with inboard gasoline engines, as well as most marine diesel engines, in applications where stereo systems, auxiliary lighting and other large electrical loads dictate larger capacity battery banks and charging systems.



SPECIFICATIONS

ALTERNATOR STYLE: Small case, positive field excitation (P-type)

REGULATION: External P-type

CASE CONSTRUCTION: Ventilated cast aluminum / High-impact plastic rear cover

FINISH: White powdercoating

COOLING: Dual internal fans

BEARINGS: Sealed ball bearing. Heavy duty radial (front). Heavy duty needle (rear)

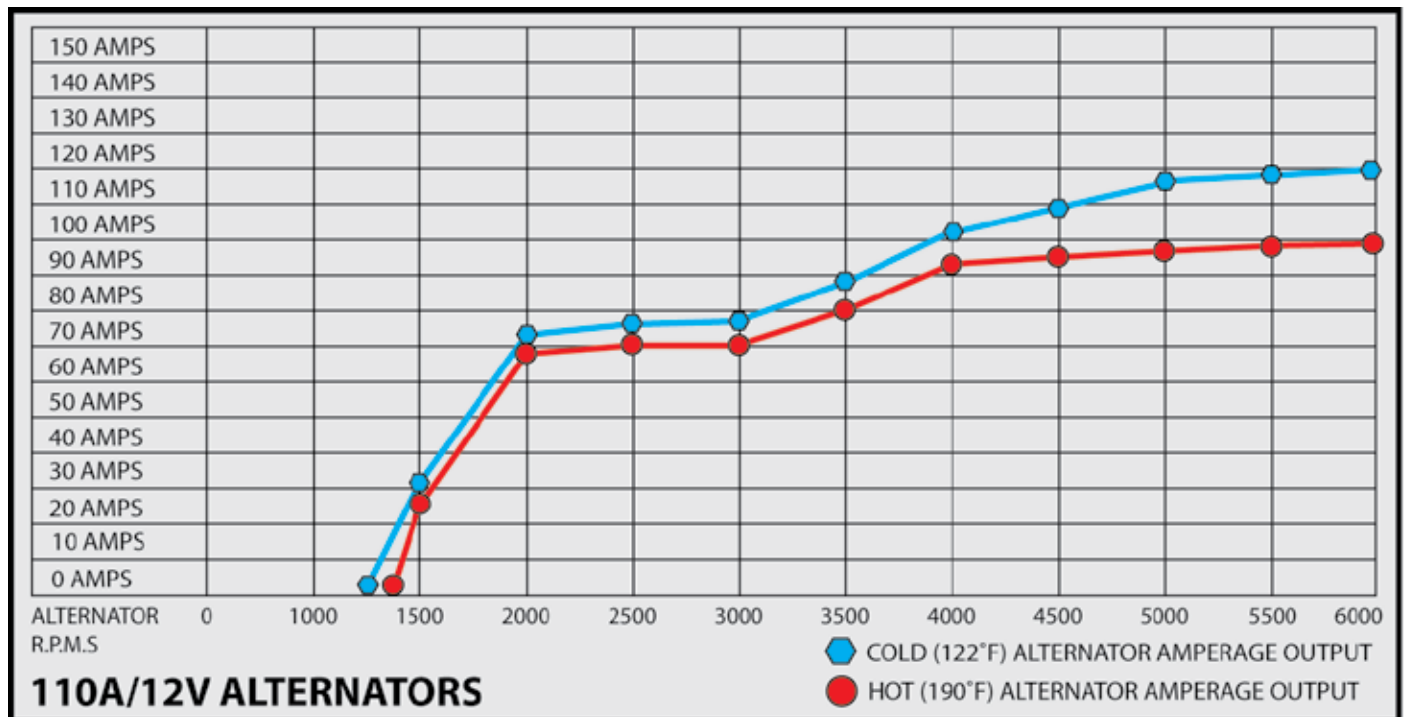
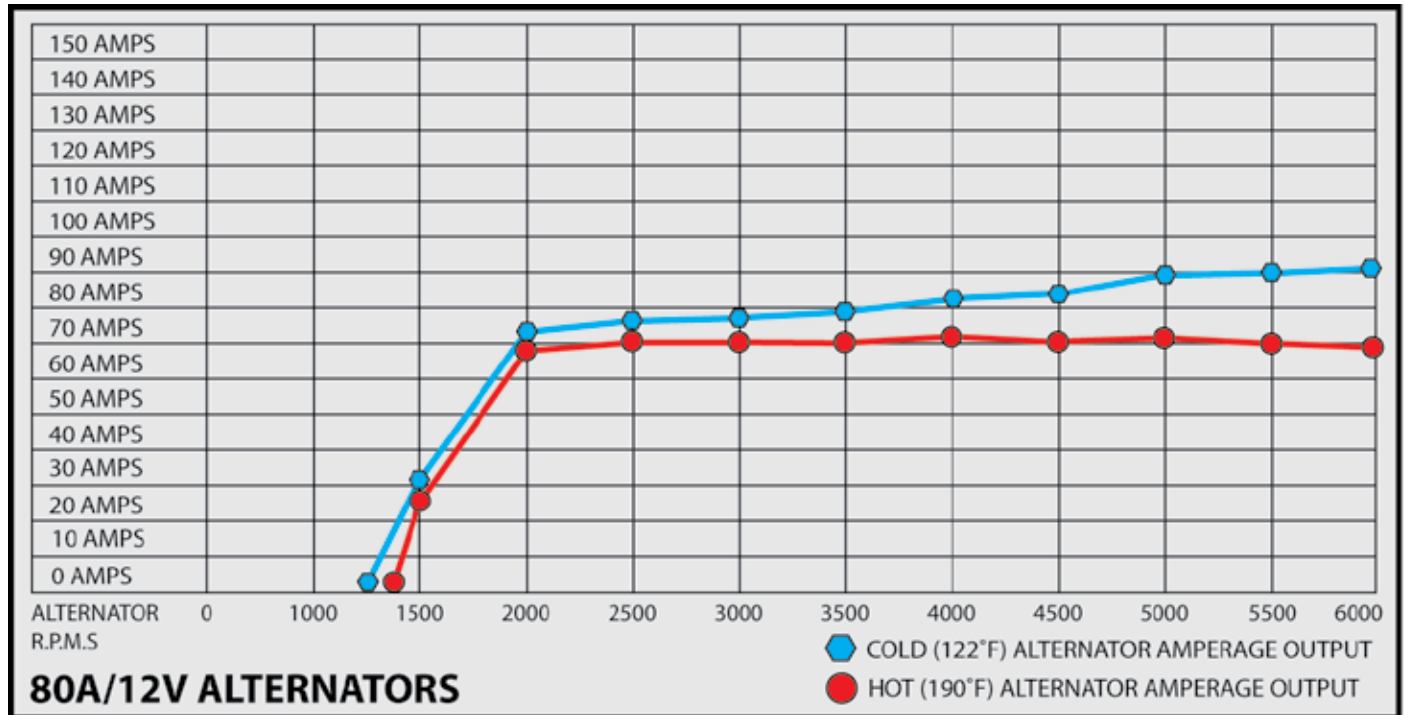
TENSIONING ARM: 180° offset from mounting foot

AVAILABLE OUTPUTS: 80A/12V, 110A/12V

MOUNTING STYLES: 3.15" I.D. Saddle (Model 70), 1" Single Foot (Model 71), 2" Single Foot (Model 712)

IGNITION PROTECTION STANDARDS: USCG TITLE 33, ISO J1171, SAE 8846

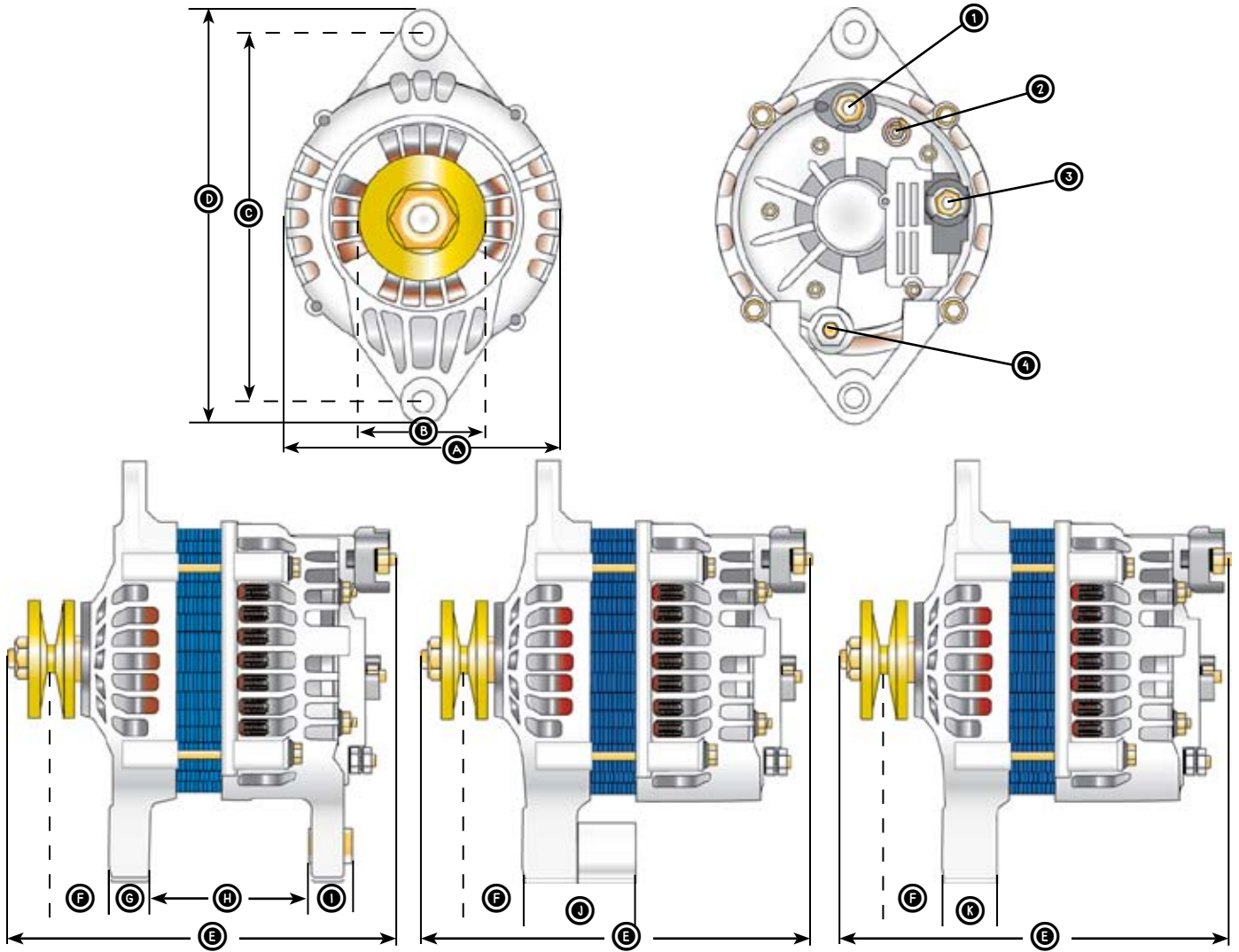
OUTPUT CURVES - 80A & 110A



RECOMMENDED PULLEYS

Model Number	Belt Type	Belt Size	Pulley Diameter	Pulley Bore
81-0010	Single Deep Vee	3/8" to 1/2"	2.7"	17 mm
81-0020	Dual Deep Vee	3/8" to 1/2"	2.7"	17 mm
81-0040	Serpentine	Six Groove	2.5"	17 mm
81-0050	Serpentine	Six Groove	1.9"	17 mm
81-0060	Dual Deep Vee	3/8" to 1/2"	2.7" (For Yanmar 6CX)	17 mm

ALTERNATOR DIMENSIONS



ITEM	DESCRIPTION	IN.	MM
A	Case Diameter	5.25	133.4
B	Std. Pulley Diameter	2.7	68.6
C	Bolt-to-Bolt Center	6.7	170
D	Overall Height	7.4	188
E	Overall Length	7.6	193
F	Front Foot To Sheave Center	1.0	25.4
G	Front Foot Width (70-Series)	.55	14
H	Inner Saddle Width (70-Series)	3.15	80
I	Rear Foot Width (70-Series)	.75	19
J	Mount Foot Width (712-Series)	2.0	50.8
K	Mount Foot Width (71-Series)	1.0	25.4

ADDITIONAL ALTERNATOR MEASUREMENTS	
	Dimension
Mounting Foot Bore (70-Series)	8 or 10 mm
Mounting Foot Bore (71-Series)	1/2" / 12.7mm
Mounting Foot Bore (712-Series)	3/8" / 9.5 mm
Tensioning Arm Bore	5/16" / 7.9mm
Positive Output Post	
Field Input Post	
Ground Post	
Stator/Tach Output Post	
TERMINAL CONNECTION LOCATIONS	
1	Positive Output Terminal
2	Stator/Tach Output Terminal
3	External Field Input Terminal
4	Case Ground Terminal

Measurements provided are believed to be correct at the time of publication. Diagrams shown are for illustrative purposes and are not designed to be used for engineering purposes. Please contact our Customer or Technical Services departments for detailed dimensional information.