7-Series Alternators





7-Series Packages

Designed to eliminate the guesswork when selecting the best system for the job, packages include 7-Series alternator, multi-stage voltage regulator, alternator and battery temp. sensors.

70-YP-Series Packages

Packages for Yanmar and other 3.15" ID saddle style mounts (YP). Available with Balmar's ARS-5 or MC-614 voltage regulator.

Model	A/V	Reg.
70-YP-80-KIT	80/12	ARS-5
70-YP-110-KIT	110/12	ARS-5
70-YP-MC-80-KIT	80/12	MC-614
70-YP-MC-110-KIT	110/12	MC-614

712-VUP-Series Packages

Packages for Volvo, Universal and other applications utilizing single 1" or 2" single foot (spindle) type mounts. Available with Balmar's ARS-5 or MC-614 voltage regulator.

712-VUP-80-KIT	80/12	ARS-5
712-VUP-110-KIT	110/12	ARS-5
712-VUP-MC-80-KIT	80/12	MC-614
712-VUP-MC-110-KIT	110/12	MC-614

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 cut in and rotate at speeds up 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.

7-Series Alternator Models					
Model	Volts	Amps	Mounting Style	Alternator Profile	
70-80	12	80A	3.15" I.D. Saddle (Hitachi Style)	Λ	
70-110	12	110A	3.15" I.D. Saddle (Hitachi Style)		
71.00	12	80A	1" Cingle Fact (Chindle)		
71-80 71-110	12	110A	1" Single Foot (Spindle) 1" Single Foot (Spindle)		
		11071	. Giligio i dot (opilitalo)		
710.00	1 40	004	0,0; 1 5 1(0; 11)		
712-80	12	80A	2" Single Foot (Spindle)		
712-110	12	110A	2" Single Foot (Spindle)		

7-Series Alternator Specifications

Alternator Style: Small case, positive field excitation (p-type)

Regulation: External p-type

Case Construction: Ventilated cast aluminum

Finish: White powdercoating **Cooling**: Dual internal fans

Bearings: Sealed ball bearing. Heavy duty radial (front).

Heavy duty radial (rear)

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)

Mounting Foot Bore: 8mm or 10mm (Model 70), 1/2" (Model 71),

3/8" (Model 712)

Grounding: Case Ground. Stud dimensions: M8 x 1.25

Positive Output: Threaded stud. Stud dimensions: M8 x 1.25

AC/Stator Output: 12 pulse.

Normal/Maximum Operating Temperature: 180°F/82°C /

225°F/108°C

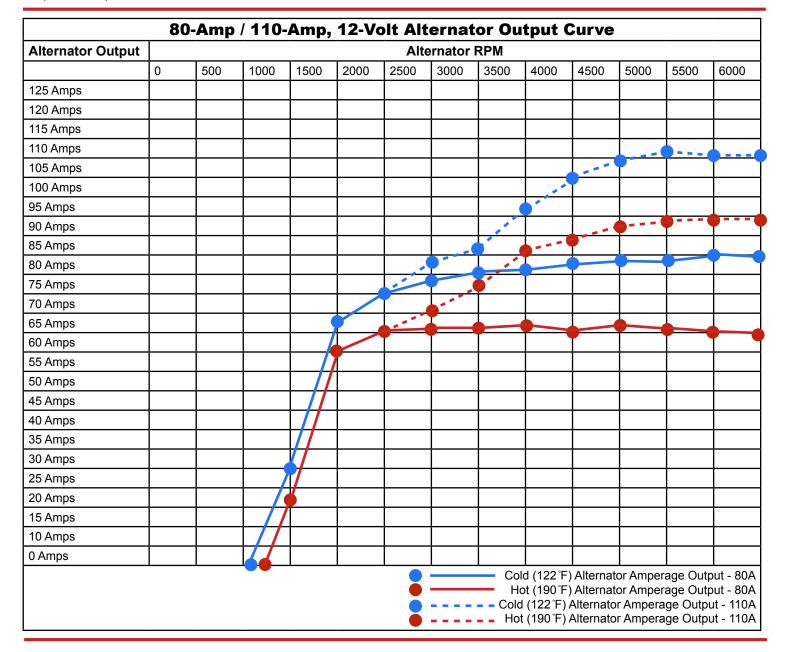
Low RPM Cut-In/Maximum Alternator RPM: 1320rpm /

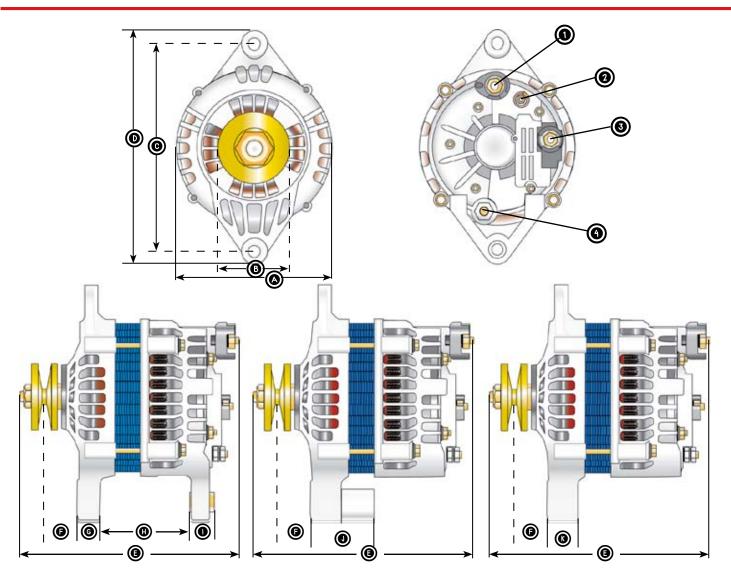
15000rpm

Diodes +/-: 3 (positive), 3 (negative); 50-amp rated

Ignition Protection Rating: USCG Title 33, ISO J1187, SAE

8846, CE





ITEM	DESCRIPTION	IN.	MM
Α	Case Diameter	5.25	133.4
В	Std. Pulley Diameter	2.7	68.6
С	Bolt-to-Bolt Center	6.7	170
D	Overall Height	7.4	188
Е	Overall Length	7.6	193
F	Front Foot To Sheave Center	1.0	25.4
G	Front Foot Width (70-Series)	.55	14
Н	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

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. Please contact our Customer or Technical Services departments or see our 2009 Product Guide for additional information.

ADDITIONAL ALTERNATOR MEASUREMENTS				
		Dimension		
Mountii	ng Foot Bore (70-Series)	8 or 10 mm		
Mounting Foot Bore (71-Series)		1/2" / 12.7mm		
Mountii	ng Foot Bore (712-Series)	3/8" / 9.5 mm		
Tensioning Arm Bore		5/16" / 7.9mm		
Positive Output Post				
Field Input Post				
Ground	l 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			

Balmar