

7-SERIES HIGH-OUTPUT ALTERNATORS

Ideal for OEM replacement on a wide variety of marine gasoline and diesel engines, dual internally fanned 7-Series alternators provide impressive output across the board, from idle to red line. Designed for use with smart Balmar multi-stage external voltage regulators, 7-Series alternators are available in three mounting configurations; a 3.15" saddle mount that's typical of Yanmar engines, a 1" Motorola style spindle mount and a 2" Delco style spindle mount.

SPECIFICATIONS

| | |
|------------------------|---|
| ALTERNATOR STYLE: | Small case, positive field excitation (p-type) |
| EXTERNAL REGULATION: | P-type, fixed voltage or multi-stage |
| CASE CONSTRUCTION: | Ventilated cast aluminum |
| FINISH: | White powdercoat |
| COOLING: | Dual internal fans |
| BEARINGS: | Sealed ball bearing. Heavy duty radial (front) Heavy duty radial (rear) |
| TENSIONING ARM: | .38" Smooth Bore |
| AVAILABLE OUTPUTS: | 80A/12V 110A/12V |
| MOUNTING STYLES: | 3.15" I.D. Saddle (Model 70) 1" Single Foot Spindle Mount (Model 71) 2" Single Foot Spindle Mount (Model 712) |
| MOUNTING FOOT BORE: | (70) 8mm or 10mm Interchangeable bushings (71) 1/2" bore (712) 3/8" bore |
| GROUNDING: | Case ground. Stud on rear of alternator Stud dimensions: M8 x 1.25 |
| POSITIVE OUTPUT: | Threaded stud Stud dimensions: M8 x 1.25 |
| AC / STATOR OUTPUT: | 12 pulse. Stator output terminal. |
| OPERATING TEMPERATURE: | 180°F/82°C / 225°F/108°C |
| LOW RPM CUT-IN: | 1,320 |
| MAX. ALTERNATOR RPM: | 15,000 |
| DIODES +/-: | 3 (positive), 3 (negative); 50-amp rated |
| IGNITION PROTECTION: | USCG Title 33, ISO J1187, SAE 8846, CE |
| WARRANTY: | One year limited (SEE WARRANTY PAGE) |
| AVAILABLE PULLEYS: | 81-0010 (2.7" SINGLE DEEP VEE) 81-0020 (2.7" DUAL DEEP VEE) 81-0040 (2.5" K-6 SERPENTINE) 81-0050 (1.9" K-6 SERPENTINE) 81-0060 (2.7" DUAL DEEP VEE FOR YANMAR 6CX) |



70-SERIES



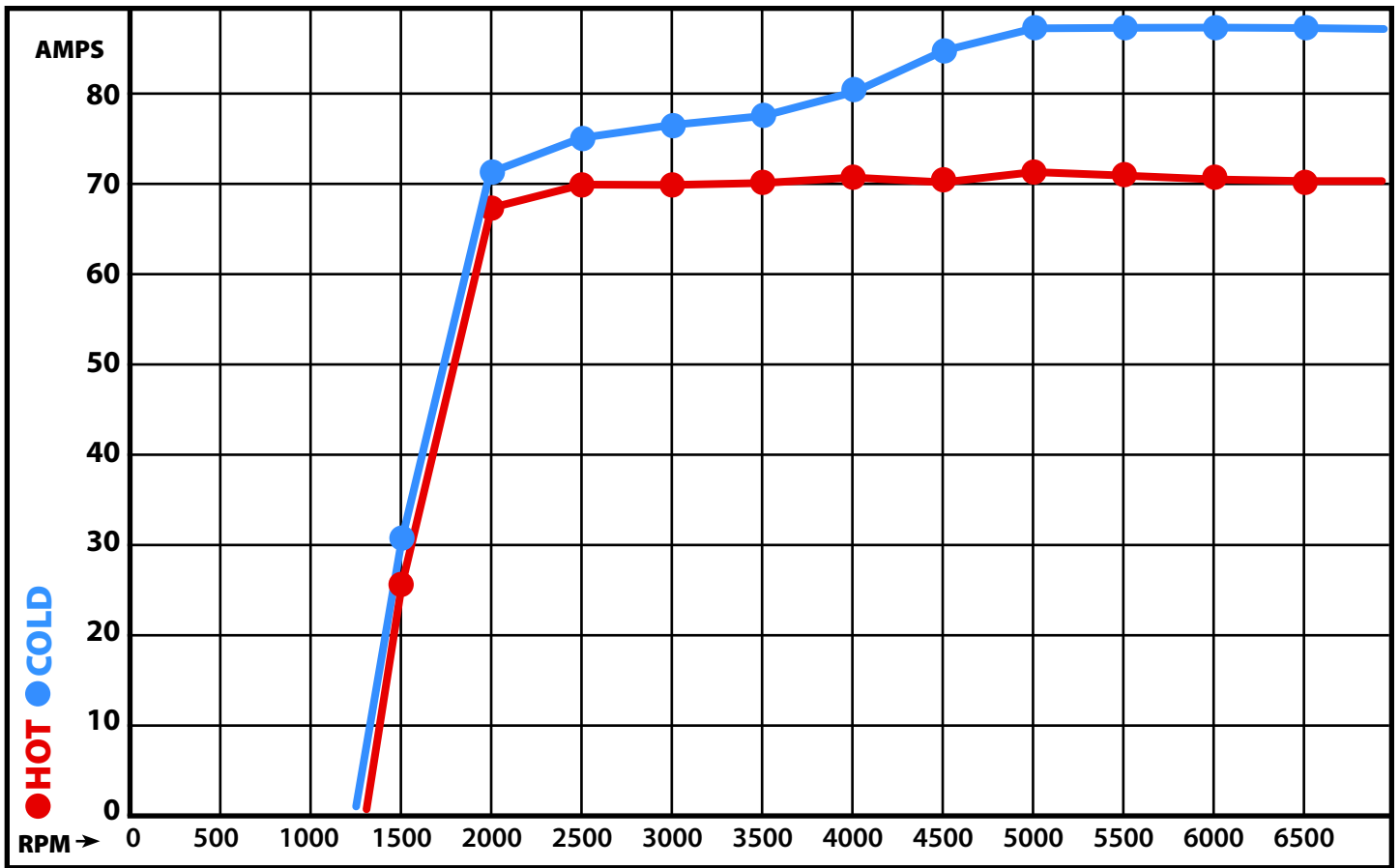
71-SERIES



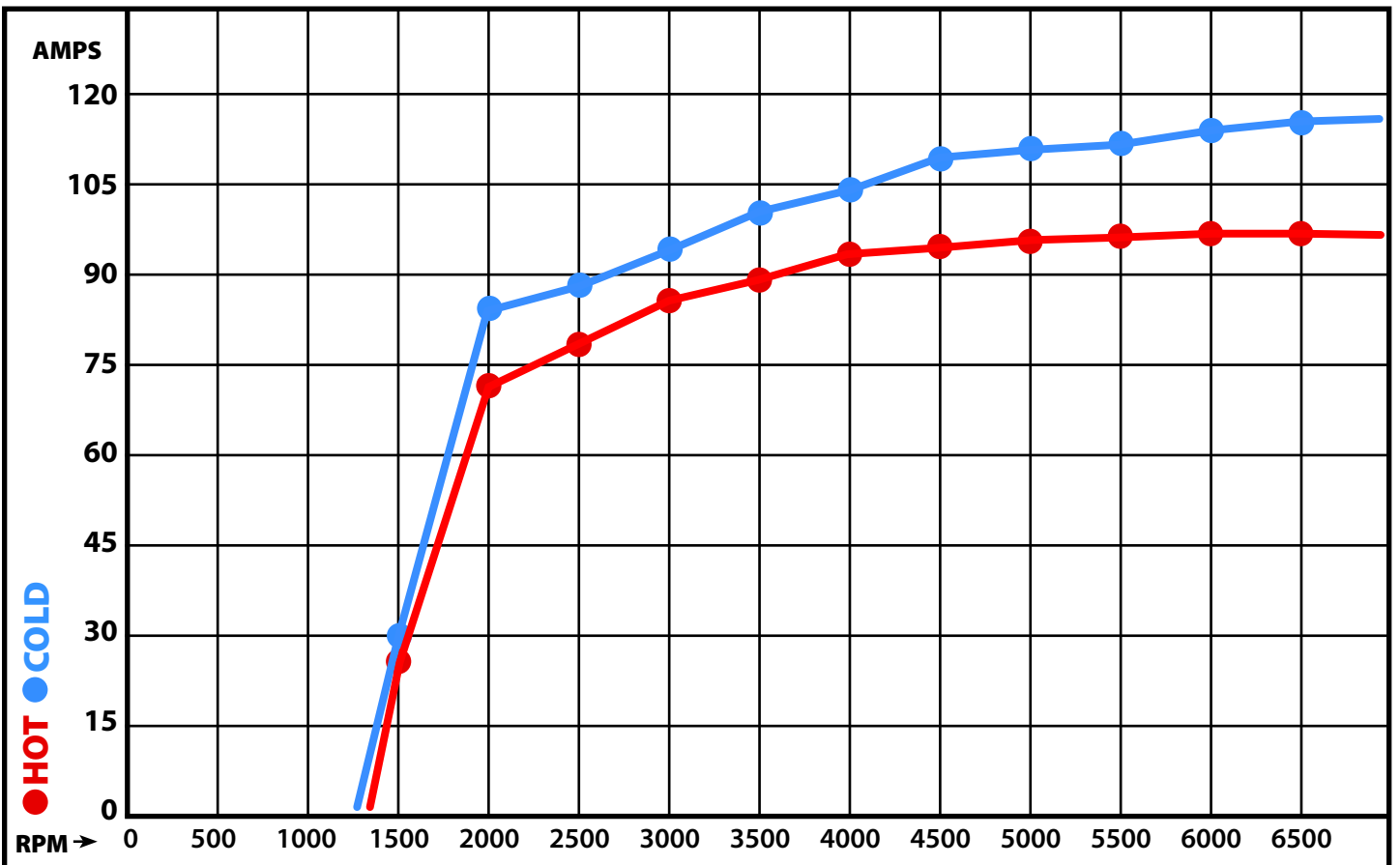
712-SERIES

Customer Service
360-435-6100

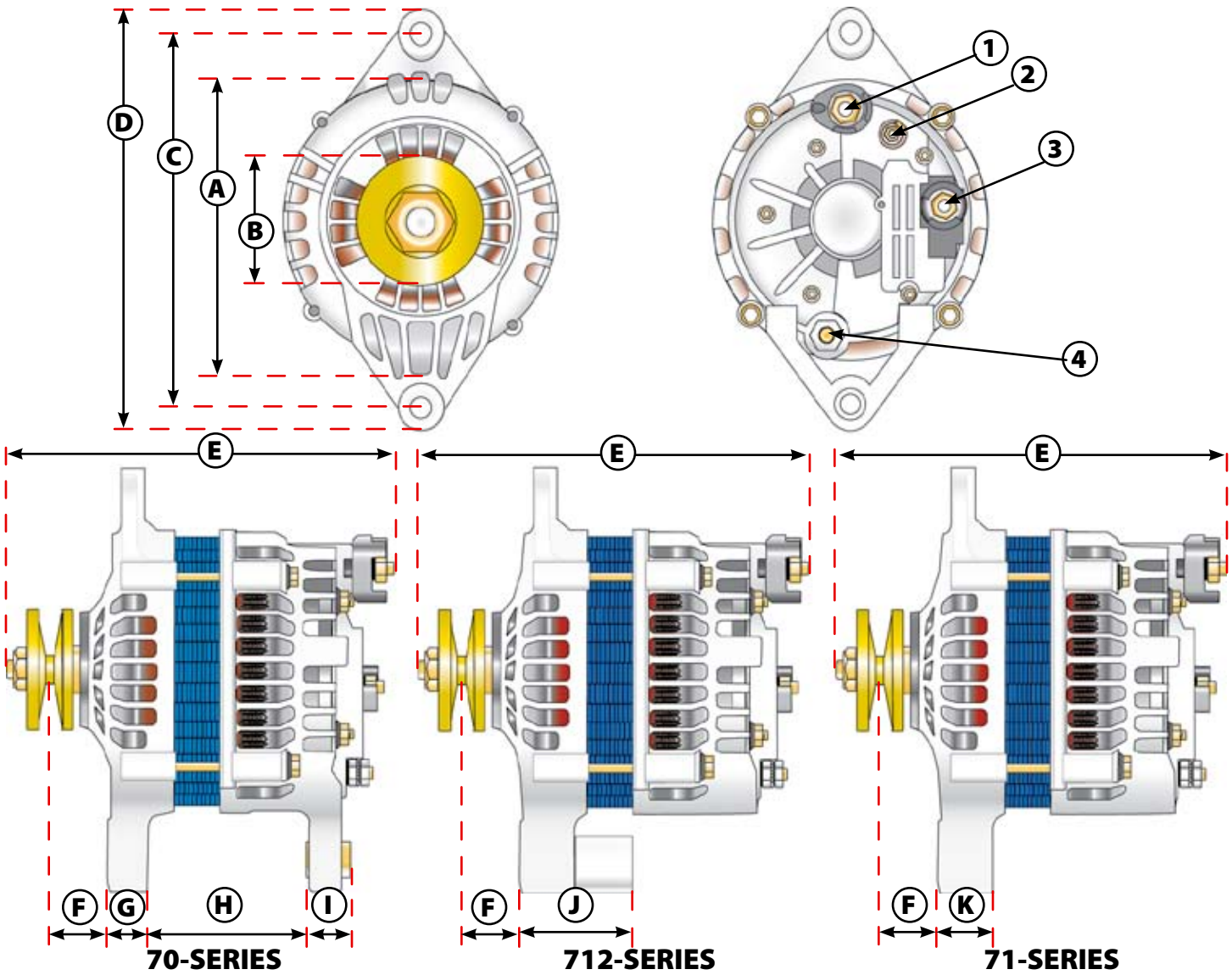
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80-AMP, 12-VOLT MODELS - Outputs are based on alternator rpm



110-AMP, 12-VOLT MODELS - Outputs are based on alternator rpm



| 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 | M6-1.00 |
| Field Input Post | #10-32 |
| Ground Post | M8-1.25 |
| Stator/Tach Output Post | 1/4" MALE |
| 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. Please contact our Customer or Technical Services departments or see our 2011 Product Guide for additional information.

For more information, visit us on the web at www.balmar.net