

Balmar Multi-Stage Regulator Additional Features



User-Selectable Preset Battery Programs

Balmar provides multiple charge profiles to ensure optimal charging. Simply select the battery program that matches your battery technology. The Max Charge regulator family contains 8 preset charge profiles. The ARS-5 contains 5 preset profiles.

Advanced Programming Modes

Balmar multi-stage regulators feature a broad range of advanced regulator adjustments. By accessing the advanced programming function, the user can modify charging times and voltages in all stages of charge, adjust start delay times, temperature compensation limits, temperature compensation slopes, and modify set points for alternator over-temperature response.

Alternator and Battery Temperature Sensing and Control

Balmar multi-stage regulators have the ability to automatically correct charging output to ensure that batteries are properly charged regardless of ambient temperature. If battery temperatures exceed safe operating levels, Max Charge and ARS-5 Voltage Regulators will automatically reduce charging outputs to avoid dangerous thermal runaway conditions.

Belt Load Management

Balmar multi-stage regulators can protect the engine and belt by enabling the user to de-rate the alternator's output in small increments by adjusting the Belt Load Manager. Adjustable in 4% increments, the Belt Load Manager widens the regulator's field pulse bandwidth, thereby reducing load on the drive belt. The Belt Load Manager can also be used to protect the alternator in applications where battery capacity exceed ideal charging ratios.

Selecting the appropriate Balmar Multi-Stage Regulator for your needs can be confusing. The following chart matches the appropriate Balmar Regulator for each application and Balmar Alternator Series. Click on the Part Number to secure a Product Data Sheet.

	Balmar Regulators				Digital Duo Charge	Dual Engine Centerfielder	
	12 Volt		24 Volt				
Preset, Multi-Stage Battery Programs	Part Number:	ARS-5	MC-614	MC-612-DUAL	MC-624	DDC-12/24	CFII-12/24
Universal Factory Program, Deep Cycle Flooded, Gel Cell, Absorbed Glass Mat (AGM) and Spiral Wound Flooded (Optima)		Yes	Yes	Yes	Yes	Yes	Yes
Standard Flooded, Voltage Sensitive Halogen Systems, Lithium			Yes	Yes	Yes	Yes	Yes
Balmar Alternator Models							
6-Series Alternators (70A-120A)		Yes	Yes	Yes	Yes	Yes	Yes
AT-Series Alternators (165A-200A)			Yes	Yes		Yes	Yes
9-Series Large Case Alternators (140A-310A)			Yes	Yes	Yes	Yes	Yes
Multiple Alternator/Engine Configurations							
Dual Engine, One Alternator Each			Yes (2 Req'd)		Yes (2 Req'd)	Yes	Yes
Single Engine, Two Alternators				Yes	Yes (2 Req'd)	Yes	Yes

When it comes to quality boat starting and charging systems, Balmar is the brand you can depend on.