

Alternator Protection Modules

Alternators can be subjected to voltage spikes caused by lithium battery shutdowns, intermittent connections and other over-voltage events. Balmar has introduced a robust **Alternator Protection Module** which helps protect the alternator's diodes and internal regulator against spikes (clamping up to 60V) and sustained over-voltage conditions (beginning around 20V for the 12V version). The **APM** can absorb multiple surges of such energy, and can absorb surges in excess of 200 amps without failure to continually protect your alternator. Visual and audible alarms indicate if the device has been compromised and needs replacement.

Balmar APM devices provide intelligent, robust, solid state protection in a small, easily mounted package at the rear of the alternator between the B+ and B- terminals. **Balmar APM** devices can be used to protect all alternator brands.



- **APM-12** - Alternator Protection Module, 12V
- **APM-24** - Alternator Protection Module, 24V
- **APM-48** - Alternator Protection Module, 48V

Meets ISO 16750-2 for Load Dump Protection
Meets ISO 7637-2 for Surge Protection

Temperature Sensor Cables

- Provided with All Alternator/Regulator System Packages
 - Interchangeable for 12 Volt and 24 Volt Systems
 - For use with either **Max Charge** or **ARS-5 Voltage Regulators**
 - Battery Sensor can be used with the **Digital Duo Charge**
- **MC-TS-A** - Alternator Cable, 54" Length
 - **MC-TS-A80** - Alternator Cable, 82" Length
 - **MC-TS-B** - Battery Cable, 240" Length (20')
 - **MC-TS-B30** - Battery Cable, 360" Length (30')



Replacement Regulator Wiring Harnesses

All Balmar Regulators can be purchased with or without a wiring harness.

Replacement wiring harnesses can also be purchased separately.



Alternator Families	Length	Volts	Harness Number
6-Series, XT-Series, AT-Series & 9-Series NEW LENGTH:	54"	12V	1010
		24V	1012
	120"	12V	1020
		24V	1022
94-Series	54"	12V	1011
		24V	1013
96-Series	54"	48V	1015
7-Series, 97-Series & 98-Series	54"	12V	1014
		24V	1016