## APIVI Alternator Protection Module



The Balmar APM provides best-in-class surge protection using the latest technology developed for the automotive

industry. It can protect alternators from damaging effects:

- · Battery switch disconnects
- Lithium battery BMS disconnects
- Surges from solenoids, combiners, starters and other motors.

Green LED = Protecting Red LED and/or beep = Protection failure, replace APM

The Balmar APM excels in both short duration and longer duration spikes, where other products fail.

## Installation:

1. Connect the Ring Terminal on the Red

Lead to the B+ Post

2. Black Lead:

If the alternator is Isolated Ground Connect to B- Post;

If the Alternator is Case Ground Connect to a Case Mounting Bolt

3. Secure the APM case to a battery cable with the included zip-ties

DO NOT PLACE EITHER CONNECTOR UNDER THE BATTERY CABLE LUGS

## See Alternator manual for locations of B+ and B- connections

Note: If the nuts securing the cables to the alternator loosen, the APM cannot protect the alternator. No surge protection device can protect against unlimited surges in either amplitude, power or duration. In certain cases it is possible that the APM will provide protection, but in the process become damaged so that it no longer provides protection. In this event, the APM LED will turn red, and it will begin to give a chirping sound. In extreme cases such as lightning strikes, the APM can be damaged to the point it no longer functions or provides feedback. Meets ISO 16750-2 for Load-Dump Surge Specification, ISO-7637-2 for Surge Capability, SAE J1171 for ignition protection and ASTM B117 for Salt Spray/Fog.

Use the correct module for the application - 12v, 24v or 48v.

A mismatch will not provide protection.

More information available at

www.Balmar.net/apm or scan the QR Code.

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