

## POWERGUARD - DEEP DISCHARGE PROTECTION

PowerGuard continually monitors the state of engine batteries as they discharge. At a pre-determined level PowerGuard will provide a warning (via an LED on its dash mounted reset switch) and then after a selected time if the batteries have not recovered, will automatically disconnect the batteries from their loads. This prevents further discharge and ensures enough energy is left in the batteries to be able to restart the engine.

Power is reconnected either by starting the engine or pressing the dash reset switch.

PowerGuard can also be used as a battery master switch remotely operated from an on/off switch on the dash negating the need to buy two separate devices.

A discreet signal into PowerGuard prevents any possibility of the batteries isolating while the engine is running.

### Save money

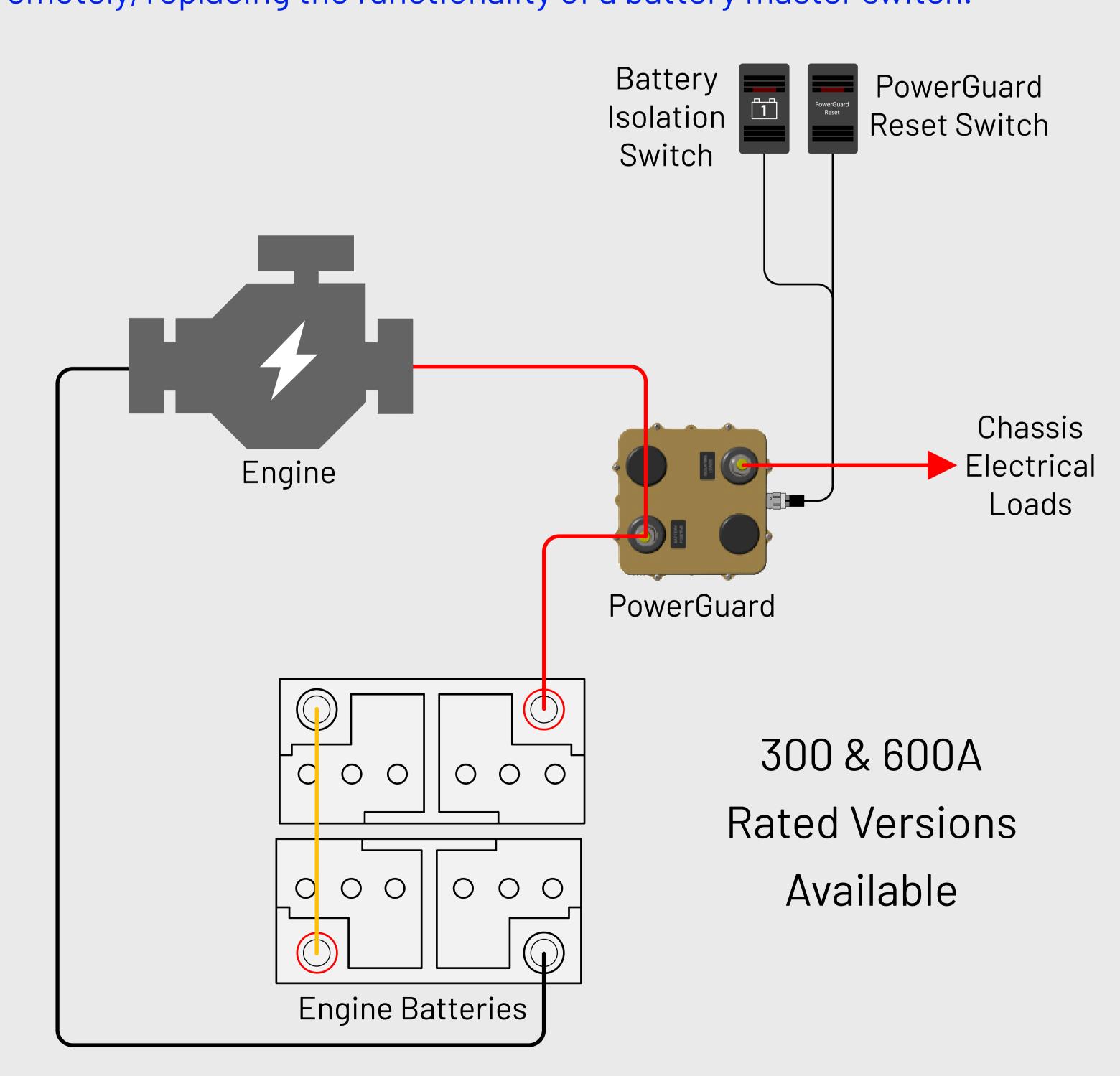
on battery replacements and improves vehicle reliability

- Automatically isolates truck batteries
  from power drains before the batteries
  are completely discharged
- Helps guarantee engine starting
- Replaces battery master switch
   Turn batteries on and off manually from the vehicle dash
- Designed to military specifications

### **Installation Example:**

The overview below shows PowerGuard installed in the main feed from the engine batteries to chassis electrical loads. A dash mounted switch is provided for resetting PowerGuard when the batteries have auto-isolated. It also has a warning LED which will flash before the batteries are shut off.

A dash on/off switch is also connected to allow the batteries to be manually switched on and off remotely, replacing the functionality of a battery master switch.







# POWERGUARD - DEEP DISCHARGE PROTECTION

#### **Software:** Logic Trace Utility - PowerGuard MP/2 PowerGuard is supplied with windows - 00:00:00 based PC software allowing the product to Main Diagnostics - PowerGuard MP/2 be configured to automatically protect the Isolator Relay 1 Isolator Relay 2 Manual Isolation 1 batteries at different levels and diagnose Battery Data Manual Isolation 2 PG Control 1 PG Control 2 the system when in use. Cursor t=0 0.0 0.0 ● In A Graph Out Pre A Pre A Delay Del A Out Post A Logic V Alams Untitled.mpc2 - Merlin Equipment M-Power - PowerGuard MP/2 File Configure Firmware Diagnostics Settings Help Graphing Utility - PowerGuard MP/2 0 SmartBanks PowerGuards Alarms Voltage Trips Bargaphs Primary Inputs Primary Outputs Secondary Inputs Profit File Settings Primary SmartBank 1 (SB 1) Primary SmartBank 2 (SB 2) Sleve SmartBank (SB 3) Snap Pause 17:10:34 Paused Cursor 17:10:34 Update Rate 1 Sec Smart Bank 1 + Home PowerGuard Connect Voltage Disconnect Voltage 12.0 Volts Detected Device 100 Voltage Trip Reset and Inhibit PowerGuard MP/2 ☐ SmartBank MP uses presets Emulate SmartBank Advanced PG1 Thresh 11.8 PG2 Thresh 10.5 Timer Volts 0.0 DSP 0.0 Ales Battery 1 Volts 0.0 DSP 0.0 Alas Battery 2 157.00 BATTERY

All specifications are provided in best possible faith but may be subject to change without notice. The Merlin Logo, slogan "The Power People" and M-Power are trade marks of Merlin Equipment Limited. All business is transacted according to our Standard Terms & Conditions, a copy of which is available upon request.

159.00

144.30

POSITIVE

ISOLATING

LOADS

MOUNTING HOLES

FOR M5 SCREWS

3 PLACES