

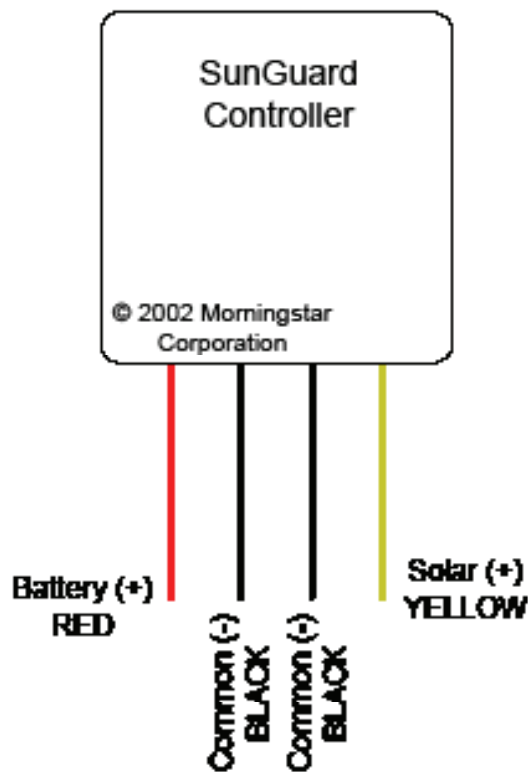
# SunGuard Quick Check

*SunGuard Controller Quick Checklist*

v01

**Abstract:**

This document provides a simple checklist to determine if the SunGuard controller is working correctly.



- Both negative (-) leads are common, it does not matter which is wired to the *Solar* or *Battery* negative connections
- The *Battery* connection is required for correct controller operation
- A voltage should NOT be measured at the *Battery* connection if only a PV panel is wired to the *Solar* input
- A voltage should NOT be measured at the *Solar* connection if only a *Battery* is wired to the *Battery* input
- With both PV and *Battery* wired to the SunGuard, the PV and *Battery* voltages should be equal until the battery voltage has reached the regulation setpoint (14.1V @ 25C)
- For more detailed troubleshooting, refer to document, “Field Testing Morningstar SunGuard Controllers”

**IMPORTANT NOTE:** The SunGuard is powered from the battery, NOT the solar input. A battery is required for correct operation and to power the internal circuits.