

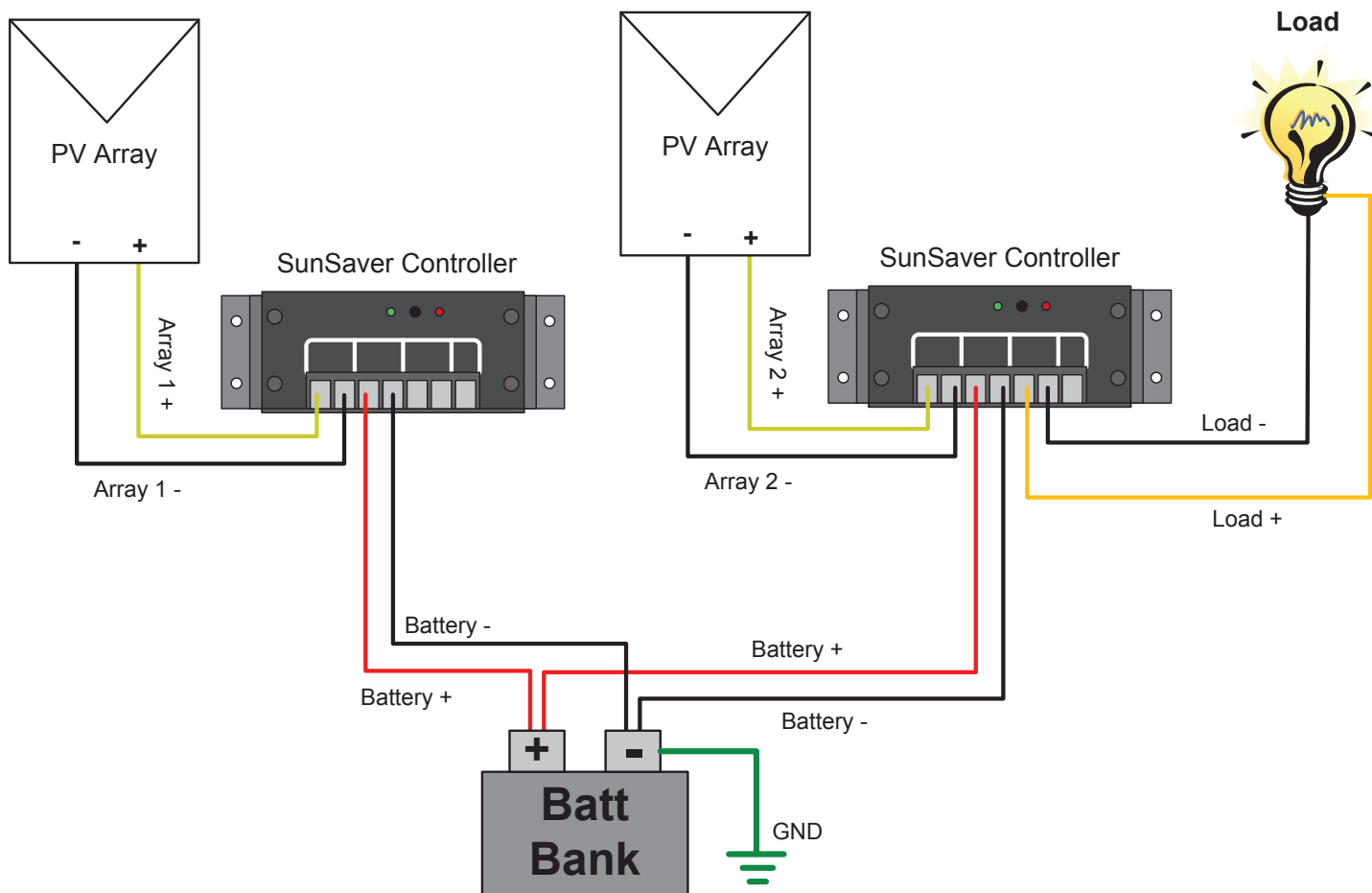
DIAGRAM: Paralleling

Parallel Charging with 2 or more Controllers

v01

Abstract:

A diagram showing two SunSaver controllers shows how to properly parallel multiple Morningstar controllers into the same battery system. The concepts shown are applicable to all Morningstar controller models.



IMPORTANT: This is not intended to be a complete system diagram; fusing, disconnects, and grounding should comply with local electric codes.

Notes:

- Two (or more) Morningstar charge controllers can be paralleled to charge the same battery bank.
- For best performance:
 1. Each controller should be connected to its own solar array
 2. Each controller should be set to the same charging program/setting
 3. If an RTS (Remote Temperature Sensor) is to be used, each controller must have its own RTS (temperature sensors cannot be shared between controllers)
 4. If the controller(s) has a Battery Sense connection, install Battery Voltage Sensing wires so that battery voltage is measured accurately across all controllers.
- The diagram can be applied to any Morningstar controllers.
- For detailed installation information, please consult the respective product manuals.

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