

Compliance with NEC 690.12 Rapid Shutdown

August 12, 2016

To whom it may concern:

Sun Bandit[®] micro grid technology uses AC Micro-Grid Inverters to provide module level maximum power point tracking and convert the DC input from the PV modules to an AC output that is sent to the water heater.

When starting, the AC Micro-Grid Inverters check to verify that the circuit is closed and that an appropriate resistance is connected. The inverters do not begin exporting power until those conditions are met. When the circuit is opened, the inverters instantly cease exporting power and wait until the closed circuit and appropriate resistance return. In other words, there is no power or voltage present on the AC side of the AC Micro-Grid Inverters when the circuit is opened.

The inverters are typically located directly underneath the modules which means that an outdoor, readily accessible disconnect meets the functionality required in NEC 690.12.

Sincerely,

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