

# MNSOB-TRANSMITTERS MNSOB-RECEIVER600 & RECEIVER1000

MIDNITE SOLAR INC.

**The MidNite SOB is a simple to install, low cost rapid shut down system designed to comply with 2014 as well as 2017 NEC.**

The system uses a receiver at the module that wires in just like an optimizer and a transmitter that is installed in or near the inverter. The installer does not need to install any other wiring between the transmitter and receiver. The system is fail safe, if the receiver does not sense the keep alive data stream from the transmitter, it turns off and opens the circuit.

## PRODUCT FEATURES

- NEC 2014 690.12 requires the conductors leaving the array to be controlled to 30 volts or less
- NEC 2017 690.12 requires wiring within the array to be controlled to 80 volts or less and the conductors leaving the array to be controlled to 30 volts or less
- The Combination of the MNSOB-T1-600 or T1-AC and MNSOB-R1-600 or MNSOB-R1-1000 satisfies both 2014 and 2017 NEC
- Transmitter may reside inside wiring compartment of the inverter
- Transmitters come in 2 different power options: MNL SOB-T1-600 or MNL SOB-T1-AC
- A single receiver at the end of each string satisfies 2014 NEC.
- Use a receiver on each panel to satisfy the 80 volt limit for 2017 NEC
- Great for split arrays to control the conductors between the arrays
- Receiver, 600 or 1000 Volts available
- Built in Arlington, WA USA

*Bleed Down Unit*



## BLEED DOWN UNIT

Not all grid tie inverters meet the 30V in 30 second rule. The Bleed down unit fixes that problem for those inverters that require this time and voltage requirement.

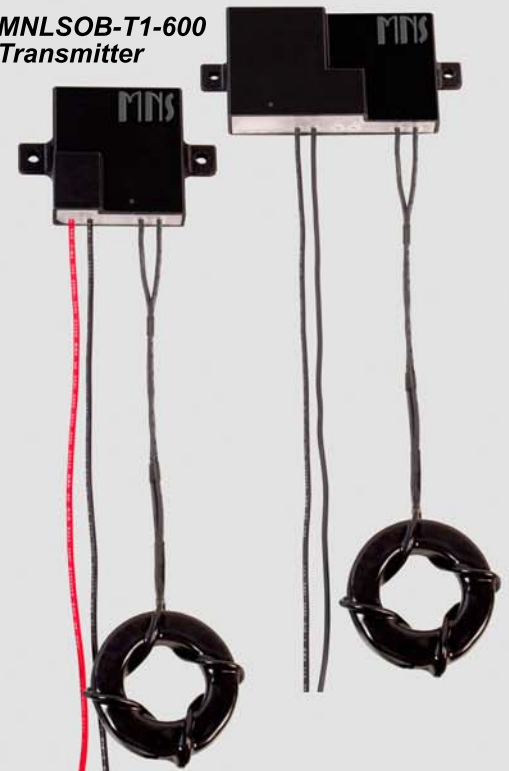
*MNSOB-R1-1000 Receiver*

*MNSOB-R1-600 Receiver*



*MNL SOB-T1-AC AC Transmitter*

*MNL SOB-T1-600 Transmitter*



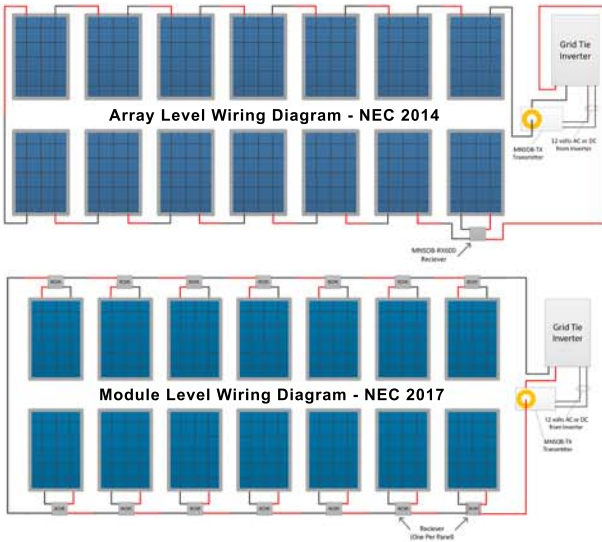
[www.midnitesolar.com](http://www.midnitesolar.com)

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# MNSOBL TRANSMITTERS

# MNSOBL RECEIVER600 & RECEIVER1000

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## Little SOB Specifications

### Receiver

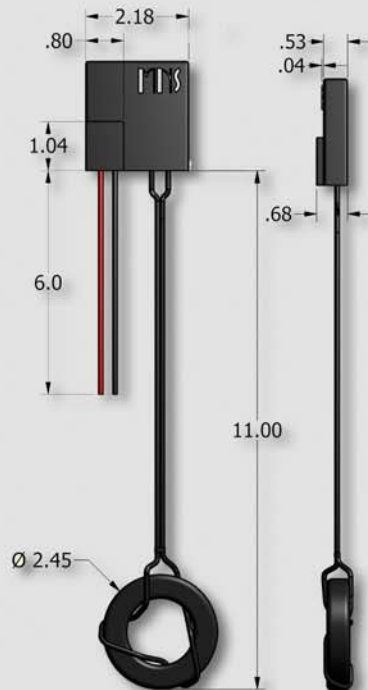
- MNL SOB-R1-600
- MNL SOB-R1-1000
- 80V maximum panel voltage.
- 12A maximum string current.
- Operating temperature range:  
600V – 40°C to +80°C  
1000V – 40°C to +80°C

### Transmitter

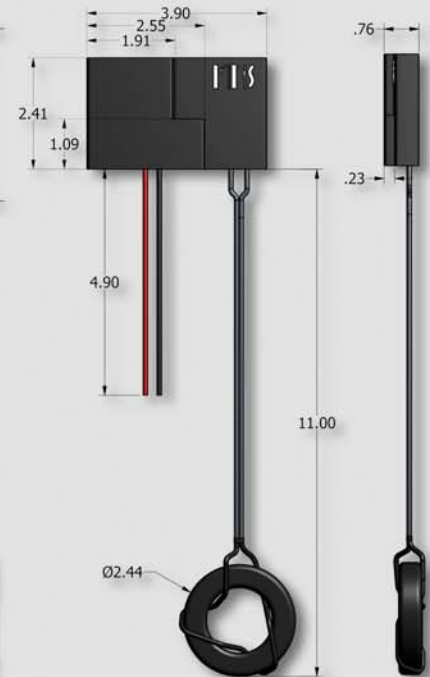
- MNL SOB-T1-600 DC Transmitter designed to operate between 12-16vdc and requires 200mA
- MNL SOB-T1-AC AC Transmitter designed to operate between 90-305VAC
- Designed to support up to 6 strings.

## TRANSMITTERS

### MNL SOB-T1-600

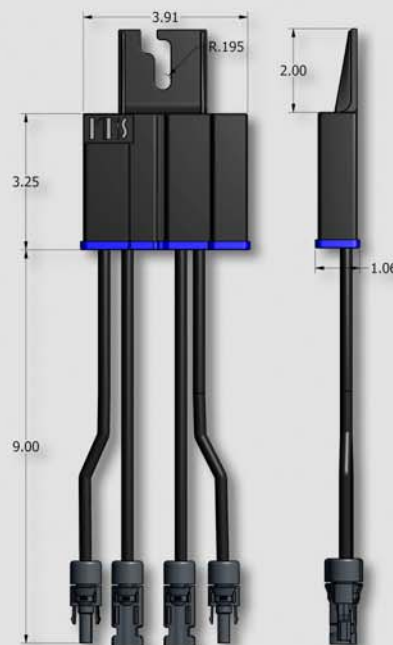


### MNL SOB-T1-AC



## RECEIVERS

### MNL SOB-R1-600



### MNL SOB-R1-1000

