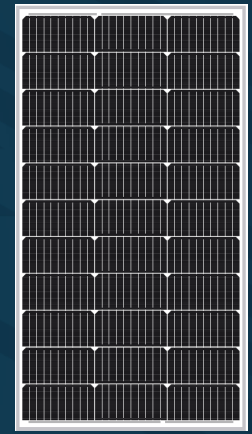


# Post Top Solar Panel Kit: 100 Watt

**SOLAR KIT: M75-SPTOP-100W**



## SOLAR KIT FOR Intelligent Beacons

TraffiCalm® solar kits are specifically designed to provide extensive flexibility in all its applications and provide year-round operation of the system. We have a multitude of solar kits and will make sure you have the right-sized system for your particular location using our sophisticated solar calculator that takes into account the amount of sunlight (insolation), temperature, and cloudy days experienced by month, as well as the power draw of the particular model of Intelligent Beacon(s).

## FEATURES

### Complete Kit

Includes the solar panel, post-top panel mount, solar controller, heavy-duty mounting bracket, and conduit-enclosed wiring.

### Easy Installation

No trenching is required for cables. Utilizes industry-standard hardware and mounting techniques. Consistent connectors and fasteners are compatible with all TrafficCalm Radar Speed Signs.

### Environmentally Friendly

Utilizing solar energy combined with the low-power draw of Light-Emitting Diodes (LEDs) in TrafficCalm Radar Speed Signs, these solar kits are the environmental choice for our planet while helping make our roadways safer.

### 3-Year Warranty

3-year limited warranty on the solar kit

### Made in the USA

TraffiCalm Solar/battery kits are manufactured in the USA in an ISO 9001:2015 certified facility. In addition, we provide you with unlimited technical phone support for the life of the unit. Build America/Buy America Compliant.

TRAFFICALM.COM



## SPECIFICATIONS

### Physical Descriptions

Mounting: Universal bracket accommodates 4.5" (OD) round post of any make or material

All electronics potted for weatherproofness

Stainless fasteners used for corrosion resistance

Panel Dimensions: 38.58" l x 20.87" w x 1.18" d (98 cm x 53 cm x 3 cm)

### Construction

100 Watt Monocrystalline silicon solar cell panel

Standard, heavy-duty mounting brackets

### Bracket

90MPH (145KPH) Wind Load Rating

1.1kN/M2 Snow Load Rating

Spun aluminum and powder-coated cast steel structure, stainless and zinc plated hardware

### Solar Panel Power Specs

Maximum Power (PMax): 100W

Voltage at PMax (Vmp): 19.11V

Current at PMax (Imp): 5.2A

Open Circuit Voltage (Voc): 22.04V

Short-Circuit Current (Isc): 5.53A

Temp. Coefficient of Voc:  $-(80 \pm 10)\text{mV}/^\circ\text{C}$

Temp. Coefficient of Isc:  $(0.065 \pm 0.015)\%/^\circ\text{C}$

Temp. Coefficient of power:  $-(0.5 \pm 0.05)\%/^\circ\text{C}$

NOCT (Air 20°C; Sun 0.8kW/m2 wind 1m/s):  $47 \pm 2^\circ\text{C}$

Operating Temperature:  $-40^\circ\text{F}$  to  $+185^\circ\text{F}$  ( $-40^\circ\text{C}$  to  $+85^\circ\text{C}$ )

Maximum system voltage: 1000V DC

Power tolerance:  $\pm 5\%$

### Wiring Harness

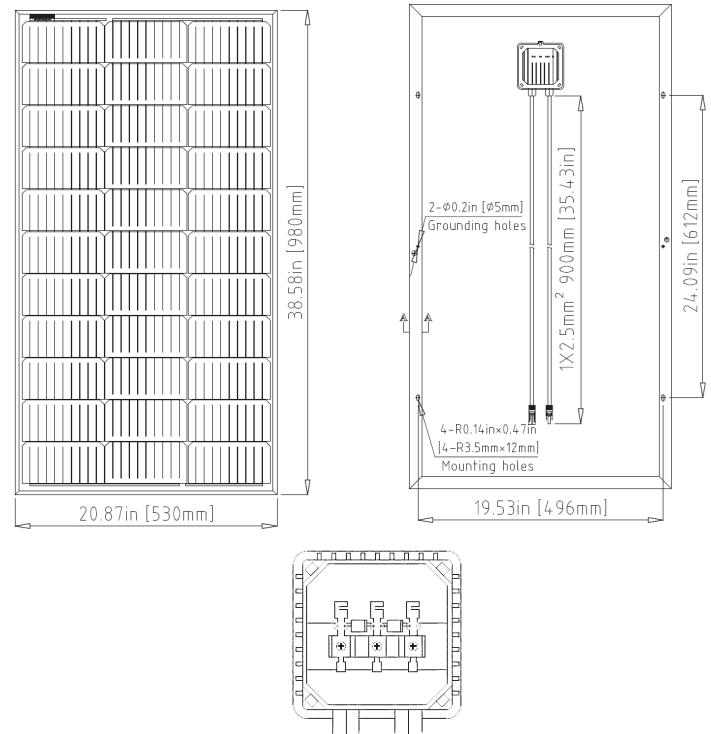
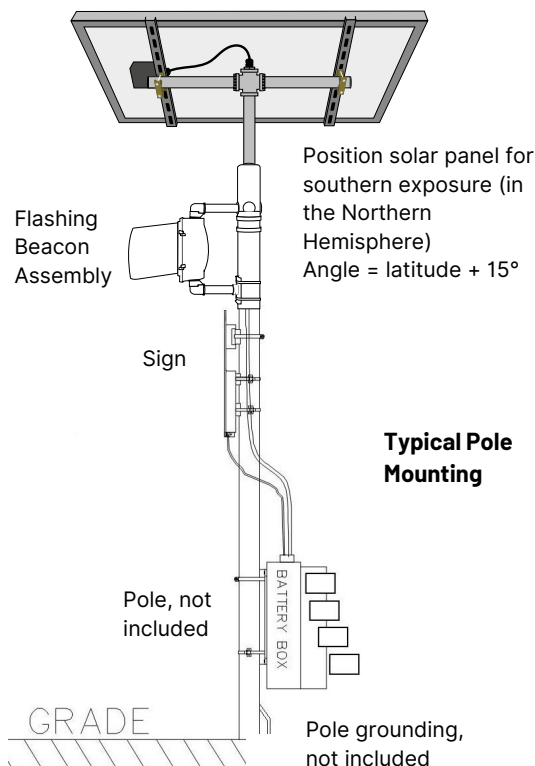
Includes Solar Panel to Controller harness

Outdoor rated, UV stable 14 AWG shielded wire

### Warranty

3-year warranty

Unlimited technical support



\*Solar panel sizes subject to change without notice