

Post Top Solar Kit: 60 Watt / 35 Ah

SOLAR KIT: M75-SPTOP-000S



SOLAR/BATTERY KIT

TraffiCalm® solar/battery kits are specifically designed to be used on iQ Series Radar Speed Signs and provide year-round operation of the system. We have a multitude of solar/battery 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 Radar Speed Sign chosen.

FEATURES

Complete Kit

Includes the solar panel, post-top panel mount, solar controller, battery box, heavy-duty mounting bracket, batteries, 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.

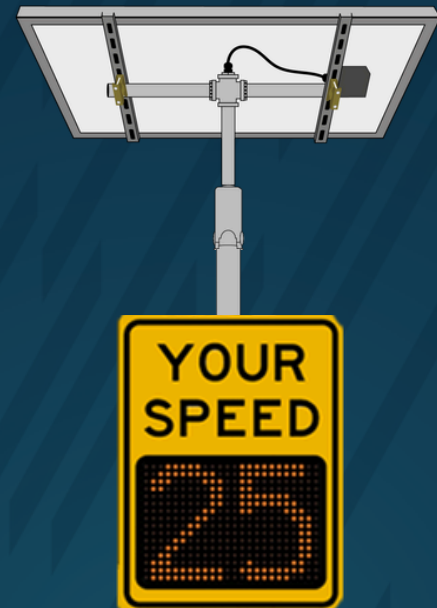
3-Year Warranty

3-year limited warranty on the solar kit, with 1 year on the batteries.

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.

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SPECIFICATIONS

Physical Descriptions

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

NEMA 3R enclosure

All electronics potted for weatherproofness

Stainless fasteners used for corrosion resistance

Battery Box Dimensions: 12" h x 12" w x 10" d
(30.48 cm x 30.48 cm x 25.4 cm)

Solar Panel Dimensions: 25.75" l x 26.57" w x 1.38" d
(65.41 cm x 67.49 cm x 3.51 cm)

Total System Weight: 69 lbs (31.3 kg), includes qty 1 - 35Ah batteries, battery box w/ contents, solar panel, and solar panel rack

Construction

14 gauge carbon steel Weatherproof NEMA 3R battery housing

Standard, heavy-duty mounting brackets

Provisions for padlocking

Replacement keys available upon request

Standard powder coat gray color polyester finish

Solar Panel Power Specs

Maximum Power (PMax): 60W
Voltage at PMax (Vmp): 17.8V
Current at PMax (Imp): 3.37A

Open Circuit Voltage (Voc): 22.0V
Short-Circuit Current (Isc): 3.64A

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

Maximum system voltage: 60VDC, 1500 watts

Power tolerance: $\pm 5\%$

Battery Specs

M75-SOLAR-000S includes qty 1 batteries

12V AGM valve regulated, spill proof, high energy density, DOT approved for transport. Nominal Voltage: 12V (6Cells). Nominal Capacity: 20-hr. (1.75A to 10.50V): 35Ah

Approx. Weight: 24.7 lbs each

Energy Density: 1.70 W-h/in³

Internal Resistance: 8 milliohms

Max Discharge Current (7 Min.): 105.0 amperes

Operating Temperature: Charge: -4°F to 122°F (-20°C to 50°C)

Discharge: -40°F to 140°F (-40°C to 60°C)

Dimensions: 7.72" l x 5.14" w x 6.22" h (19.61 cm x 13.06 cm x 15.8 cm)

Bracket

90MPH (145KPH) Wind Load Rating

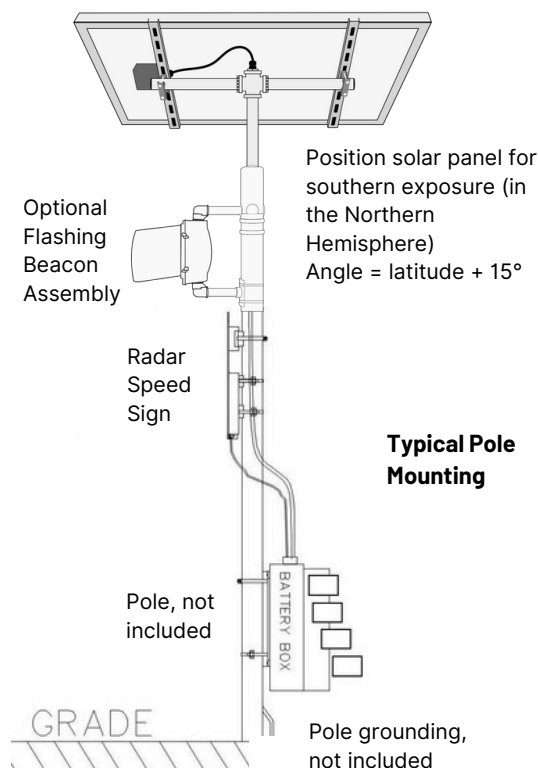
1.1kN/M2 Snow Load Rating

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

Warranty

3-year warranty, 1 year on batteries

Unlimited technical support



*Due to changing markets and advancements in solar panels, Sizes and voltage may vary, please consult TraffiCalm for the latest cut-sheets