# Side Mounted Solar Kit: 100 Watt / 140 Ah

SOLAR CENTRAL ENHANCED KIT: M75-SLR14-000C

TRAFFICALM

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### **SOLAR/BATTERY KIT**

TraffiCalm® solar and battery kits provide year-round operation of the system. We have a multitude of solar and 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 TraffiCalm Radar Speed Signs.

# **Environmentally Friendly**

Utilizing solar energy combined with the low-power draw of Light-Emitting Diodes (LEDs) in TraffiCalm 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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SPEED

YOUR

2024/07/08

# Solar Central Enhanced Kit 🔷 TRAFFICALM

# SPECIFICATIONS

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#### 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: 35.5" h x 11" w x 8.2" d (90.17 cm x 27.94 cm x 20.83 cm)

Solar Panel Dimensions: 51.18" | x 20.79" w x 1.97" d (130 cm x 52.81 cm x 5 cm)

Total System Weight: 154 lbs (69.85 kg), includes qty 4 - 35Ah batteries, battery box w/ contents, solar panel, and solar panel rack

### Construction

1/16" (.06, 1.58mm) thick aluminum Weatherproof NEMA 3R battery housing

Standard, heavy-duty mounting brackets

Provisions for locking in place are provided with key included

Replacement keys available upon request

Standard powder coat green color polyester finish (additional colors optional)



### Solar Panel Power Specs

Maximum Power (PMax): 100W Voltage at PMax (Vmp): 18.50V Current at PMax (Imp): 5.94A

Open Circuit Voltage (Voc): 22.40V Short-Circuit Current) (Isc): 5.94A

Temp. Coefficient of Voc: -(80±10)mV/°C Temp. Coefficient of Isc: (0.065±0.015)%/°C Temp. Coefficient of power: -(0.5±0.05)%/°C NOCT (Air 20°C; Sun 0.8kW/m2 wind 1m/s): 47±2°C Operating Temperature: -40°F to +185°F (-40°C to +85°C) Maximum system voltage: 1000V DC

Power tolerance: ± 5%

### Battery Specs

M75-SLR14-000C includes qty 4 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/in<sup>3</sup>

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" I x 5.14" w x 6.22" h (19.61 cm x 13.06 cm x 15.8 cm)

### Bracket

Fixed Bracket 1 - 25.98" h x 4.33" w x .98" d (66 cm x 11 cm x 2.5 cm); Fixed Bracket 2 - 3.94" h x 3.27" w x 1.97" d (10 cm x 8.3 cm x 5 cm)

Tilt Arms- Quantity 2 - 21.26" h x 3.23" w x 1.57" d (54 cm x 8.2 cm x 4 cm)

90MPH (144KPH) Wind Load Rating

1.lkN/M2 Snow Load Rating

Side of Pole (u-bolts required) or Wall Mount

### 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