



*As Reliable as the Sun*

# Solar Powered 8 Foot Sensor Trailer SPTT-0800

## 8 FOOT SENSOR ADVANTAGES

Designed for use in Intelligent Transportation System (ITS) applications, this versatile, maneuverable tower can be customized with a variety of sensors to meet your specific needs.

Standing 8 feet tall, this lightweight yet rugged tower can be deployed in confined spaces, and angled toward traffic to gather information specific to your ITS requirements.

## ABOUT THE TRAILER

The heavy duty, all steel trailer frame can be towed to any location. Built with a torsion-type axle for a smooth, stable ride. Four 2000 lb. capacity swivel jacks allow easy leveling and setup. Includes sturdy polyethylene fenders and lockable battery compartment. For additional battery theft protection, choose the Anti-Theft Battery Frame option.

The trailer is primed with a polyamide epoxy primer for rust and corrosion protection, then finished with an acrylic urethane for durability.

## 8 FOOT TOWER USES:

The 8 Foot Sensor Tower can be adapted for a wide variety of uses:

- ITS Traffic Management Solutions
  - Dynamic Merge
  - Incident Detection
  - Queue Warning
  - Travel Time Information
  - Variable Speed Limit
  - Vehicle Ingress Notification
- Weather measurement sensors
- Traffic studies
- Wi-Fi hotspot
- Acoustic data collection

## CUSTOMIZATION

Choose a sensor to meet your ITS requirements:

- Doppler Radar
- Bluetooth
- Presence Detection Sensors
- Other requirements? Let us know.



SPTT-0800 shown with a Doppler Radar installed

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# Solar Powered 8 Foot Sensor Trailer

## TRAILER

Length Operating .....	79 inches (200 cm)
Length Traveling .....	121 inches (307 cm)
Width .....	56 inches (142 cm)
Height Operating .....	8 feet (244 cm)
Height Traveling .....	8 feet (244 cm)
Ground Clearance .....	13 inches (33 cm) minimum
Weight .....	1,200 lbs. (544 kg) approx. (maximum)
Coupler (Class II) .....	2" (50 mm) ball or 2-1/2" (64 mm) pintle ring
Axle/Suspension .....	Torq-Flex - independent
Tower Rating .....	Max loading: 45 lbs (21 kg) Max surface area: 4ft <sup>2</sup> (3716 cm <sup>2</sup> )

## ENERGY SOURCE

Operating Voltage .....	12 volts DC (nominal)
Battery Type .....	6 volt heavy duty, deep cycle (GC-2)
Number of Batteries .....	Two (2), 260 amp-hr capacity
Battery Status Indicator .....	Displays full-charge, normal and low battery conditions
Solar Array Construction .....	Trailer-mounted solar panels in aluminum frame
Solar Array Power Output ..	Up to 220 watt solar array
Solar Charge Controller .....	Automatic, temperature compensated, MPPT (Maximum Power Point Tracking)

**Truly solar-powered:** Continuous, year-round, uninterrupted power source capable of providing a minimum of 90 watt-hours to a maximum of 400 watt-hours per day of electrical power (nominal 25 amp hours per day at 12.5 volts DC).

## OPTIONS AND UPGRADES

- Solar Array options: 50, 110, 160, or 220 watts
- Auxiliary Battery Charger Options:
  - 45 amp, 120 volt AC
  - 55 amp, 120 volt AC
  - 90 amp, 120 volt AC
- Battery Upgrade: Flooded Lead-Acid, Gel Cell or AGM maintenance-free batteries may be added - up to a total of 4 batteries (520 amp/hr)
- Battery Security Options:
  - Anti-Theft Steel Battery Frame Bolted to Trailer
  - Vandal-Proof Battery Enclosures
- Coupler Options:
  - Removable combination coupler (2 1/2" pintle & 2" ball)
  - Adjustable height coupler (2" ball or 3" pintle)
- Electric Brakes

## TOWER SENSOR OPTIONS

Customize the 8 Foot Sensor Tower to meet your specific needs. Options include:

- Doppler Radar
- Bluetooth
- Presence Detection Sensor
- Other requirements



Custom Colors available



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