



8-Foot Sensor Trailer

PRODUCT GUIDE

Solar Powered SPTT-0800

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.



Unit shown with a Doppler radar installed

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**
- ▶ **... and more!**

CUSTOMIZATION

Choose a sensor to meet your ITS requirements:

- ▶ **Doppler Radar**
 - ▶ **Bluetooth**
 - ▶ **Presence Detection Sensors**
 - ▶ **Other requirements?**
- Let us know!**

Learn more at www.solartechology.com



SPTT-0800

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 3" (76 mm) pintle ring
Axle/Suspension.....	Torq-Flex - independent
Tower Rating.....	Max loading: 45 lbs (21 kg) Max surface area: 4ft2 (3716 cm2)

Energy Source

Operating Voltage.....	12 volts DC (nominal)
Battery Type	6 volt heavy duty, deep cycle (GC-2)
Number of Batteries.....	Two (2) standard lead acid (flooded)
Battery Bank Capacity	260 amp hours
Battery Status Indicator.....	Displays full-charge, normal and low battery condition
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)



Custom Colors Available

AVAILABLE OPTIONS

SOLAR ARRAY OPTIONS

- » 50 watt
- » 110 watt
- » 160 watt
- » 220 watt

Auxiliary Battery Charger

- » 45 amp, 120 volt, 60 Hz
- » 55 amp, 120 volt, 60 Hz
- » 90 amp, 120 volt, 60 Hz

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

- » Anti-Theft Steel Battery Frame Bolted to Trailer
- » Vandal-Proof Battery Enclosures.

Coupler Options

- » Removable combination coupler (2" ball & 3" pintle)
- » Adjustable height coupler (2" ball and/or 3" pintle)

Brakes

- » Electric Brakes

Truly Solar-Powered

Continuous, year-round, uninterrupted power source capable of providing a minimum of 440 watt-hours per day of electrical power (nominal 35 amp hours per day at 12.5 volts DC)



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