



# SOLARTECH®

AS RELIABLE AS THE SUN

## 20-Foot Sensor Trailer

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PRODUCT GUIDE

### Solar Powered, SPTT-2000

This versatile, maneuverable tower is designed to be customized with sensors to gather data in work zones for Intelligent Transportation System (ITS) applications.

Lightweight yet rugged, this tower can be deployed in confined spaces. The mast rises to 20 feet, allowing the sensor to be angled toward traffic to gather traffic volume and speed data.

### 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 compartments. 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.



Easy to use hand crank raises and lowers the mast.

Shown with optional sensor.



#### TOWER USES

Made to customize, the 20 Foot Sensor Tower can be adapted for a wide variety of uses:

- ▶ Traffic studies
- ▶ Phased-array radar
- ▶ Security equipment
- ▶ Communications relay station
- ▶ Communications station
- ▶ Weather measurement sensors
- ▶ Wi-Fi hotspot
- ▶ Acoustic data collection
- ▶ Police traffic control
- ▶ Homeland security
- ▶ Military zones

Learn more at [www.solartechtechnology.com](http://www.solartechtechnology.com)



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Technology, Inc.**

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## 20-Foot Sensor Trailer

# SPTT-2000

## Solar Powered 20 Foot Sensor Trailer

### Trailer

Length Operating.....	79 inches (200 cm)
Length Traveling.....	121 inches (307 cm)
Width.....	56 inches (142 cm)
Height Operating .....	8.5 feet (minimum) up to 20 feet (maximum)-(610 cm)
Height Traveling.....	8.5 feet (261 cm) without sensor
Ground Clearance .....	13 inches (33 cm) minimum
Weight.....	1,200 lbs. (544 kg) approx. (maximum)
Coupler (Class II) .....	2" (50 mm) ball or 2½" (64 mm) pintle ring
Axle/Suspension.....	Torq-Flex - independent
Tower Rating.....	Max loading: 45 lbs (21 kg) Max surface area: 4ft2 (3716 cm2)
Winch.....	1000 lb. capacity automatic break- type winch
Cable.....	1/4" stainless steel aircraft-type cable

### Energy Source

Operating Voltage.....	12 volts DC (nominal)
Battery Type .....	6 volt heavy duty, deep cycle (GC- 2)
Number of Batterie.....	Four(4) standard lead acid (flooded)
Battery Bank Capacity .....	520 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. Can be tilted and rotated
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 440 watt-hours per day of electrical power (nominal 35 amp hours per day at 12.5 volts DC)



20' Sensor Tower shown with optional Wavetronics SmartSensor V. Coiled wire and crank (pictured to the right)



Custom Colors Available

## AVAILABLE OPTIONS

### SOLAR ARRAY OPTIONS

- » 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

- » Four (4) Gel Cell or AGM  
maintenance-free batteries

### 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

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