

Solar Powered Surveillance Trailer

Mobile off-grid power platform for surveillance equipment with dual high-efficiency solar panels, lithium battery storage, and a manually operated telescopic mast.



SYSTEM HIGHLIGHTS

- 2 × 440 W monocrystalline solar panels
- 25.6 V 314 Ah lithium iron phosphate battery
- 24 V DC system voltage
- 22 ft (7 m) maximum mast height
- 62 mph (100 km/h) wind rating
- Mobile single-axle trailer with four manual stabilizers



25.6 V
Lithium Battery



24 V DC
System Voltage



62 MPH
Wind Rating



7 m (22 ft)
Height Maximum



Telescopic
Steel Mast



440W Monocrystalline
Silicon Panels

SOLAR POWER AND BATTERY SYSTEM

PARAMETER	SPECIFICATION
Solar panel type	Monocrystalline silicon
Rated solar power	440 W × 2 panels
Panel efficiency	23.3%
Battery type	Lithium iron phosphate
Battery capacity	25.6 V 314 Ah
Ambient temperature	-30°C to 60°C
System voltage	24 V DC

SOLAR SURVEILLANCE TRAILER
ST-008

CONTROLLER CHARGING AND OUTPUTS

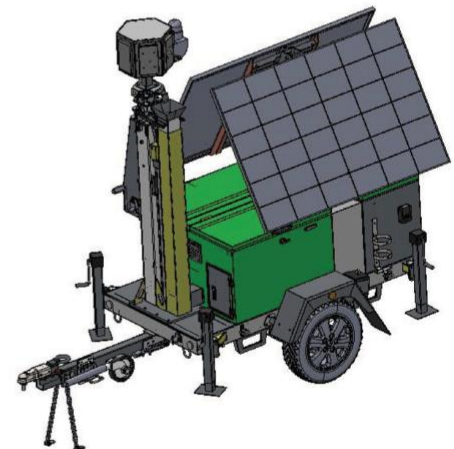
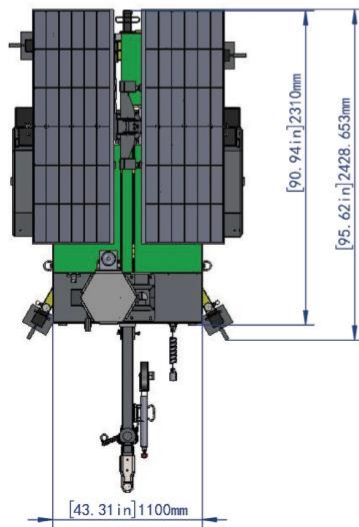
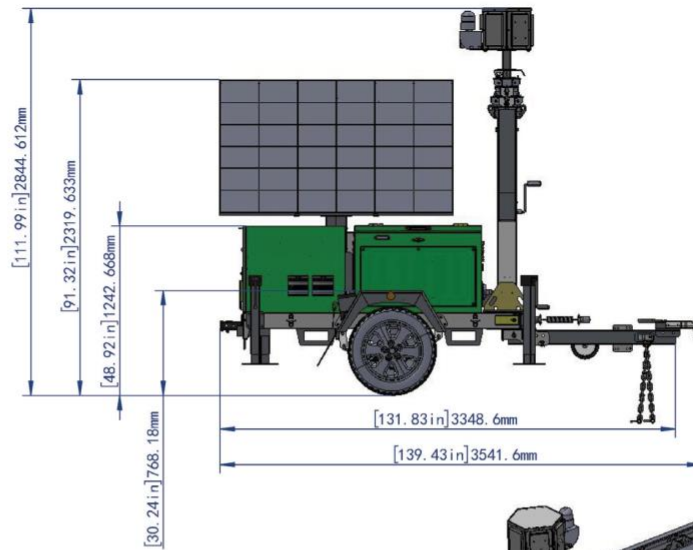
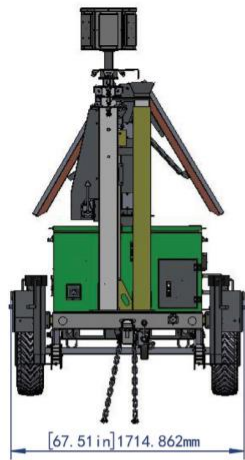
PARAMETER	SPECIFICATION
Solar controller	MPPT
Controller model	Victron 150-45
Controller efficiency	99.5%
Estimated charging time	8.2 hours
DC outputs	12 V 240 W 24 V 240 W 48 V 480 W
AC battery charger	1.5 kW with one 2 meter AC charging cable
MPPT controller gateway	Cerbo GX

MAST AND TRAILER SYSTEM

PARAMETER	SPECIFICATION
Mast type and material	Manual telescopic mast Q235 steel
Maximum mast height	22 ft (7 m)
Wind rating	62 mph (100 km/h)
Trailer type	Mobile single-axle trailer American standard
Tow hitch	1.97" (50 mm) ball 2,000 kg rating
Stabilization legs	4 manual
Suspension	Spring type
Tire and rim	185 R14C
Transportation	Truck, crane, or forklift

SIZE WEIGHT AND CABLING

PARAMETER	SPECIFICATION
Working size	9 ft 8.5 in × 9 ft 8.5 in × 24 ft 1.8 in (2960 × 2960 × 7360 mm)
Shipping size	7 ft 2.6 in × 5 ft 7.7 in × 4 ft 1.2 in (2200 × 1720 × 1250 mm)
Trailer transport size	11 ft 7.4 in × 5 ft 7.5 in × 9 ft 3.8 in (3540 × 1715 × 2840 mm)
Flat transport size	8 ft 2.4 in × 5 ft 7.5 in × 9 ft 3.8 in (2500 × 1715 × 2840 mm)
Approximate weight	2,315 lbs. (1050 kg)
Network cable	CAT6 × 2
Power cable	4 × AWG 13 + 4 × AWG 16
LED power and control cable	2 × AWG 13 power + 2 × AWG 20 control



NOTICE: Specifications are subject to change without notice. Visit our website for the latest product information.