

LE SOLAR TOWER

GS-LT-200 | GENERAL SPECIFICATIONS



Light Fixture (4*GS-LED-LT-200)

Luminaire Input Voltage Power Consumption

Lumen

Color Temperature IES Lighting Type

Material

DC 12V | 24V

4 X 50W

30,000 lumens

5000 K

Flood Optic | 60° Die-cast aluminum

Solar Panel (3 Units)

Rating Power
Maximum Power Voltage
Maximum Power Current

Open Circuit Voltage Short Circuit Current

Size Weight

335W

335 W 56.16 V 24.03 A

67.2 V 25.83 A

80.3" x 44.4"(1 Unit)

79.5 lb (1 Unit)

Battery (6 Units)

Battery Type

Operating Voltage

Capacity Dimensions

Expected Life

GEL Deep Cycle Lead-Acid

DC 24 V

6 x 12 V 150AH

 $16(L) \times 7(W) \times 9.2(H)$ (in)

 $5 \sim 7$ years

Operation

Charging Time

Operate Time

Voltage

12 Hours

36 hours for 4 x 50W

DC 24 V

Mast

Type

Materials

Mast Height

Stage

Mast Raise

Round

6063 aluminum alloy

19' (Extended) | 6'3" (Retracted)

4

Manual Lift



GS-LT-200 | GENERAL SPECIFICATIONS



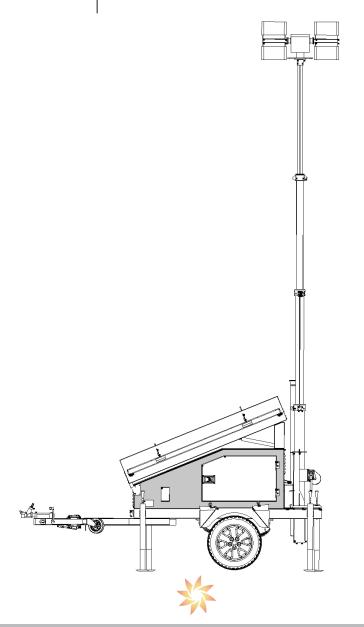
Canopy

Type Finish Color 2mm cold-rolled steel Powder Coating White

Trailer

Type
Tire and rim size
Stabilizers
Drawbar

Single Axel 185R 14C 4 adjustable manual stabilizers Complies with U.S. D.O.T.



GS-LT-200 | GENERAL SPECIFICATIONS



SPECIFICATIONS

Luminaire Input Voltage

Power Consumption

Lumen Output

Color Temperature

IES Lighting Type

Material

IP Class

Insulation

Operating Temperature

CRI

DC 24V

4 X 50W

30,000 lumens

5000 K

Flood Optic

6063 Aluminum alloy

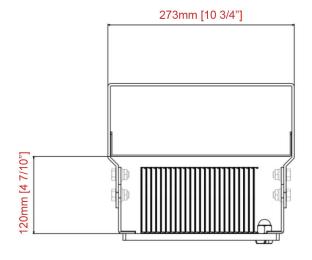
IP 65

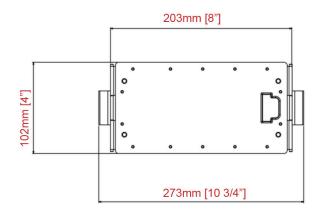
Class I

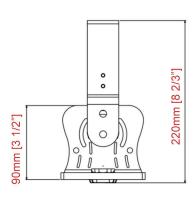
-30°C ~+50°C/ -22°F ~+122°F

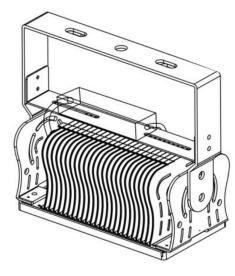
≥70

DIMENSIONS











MOBILE SOLAR TOWER SERIES

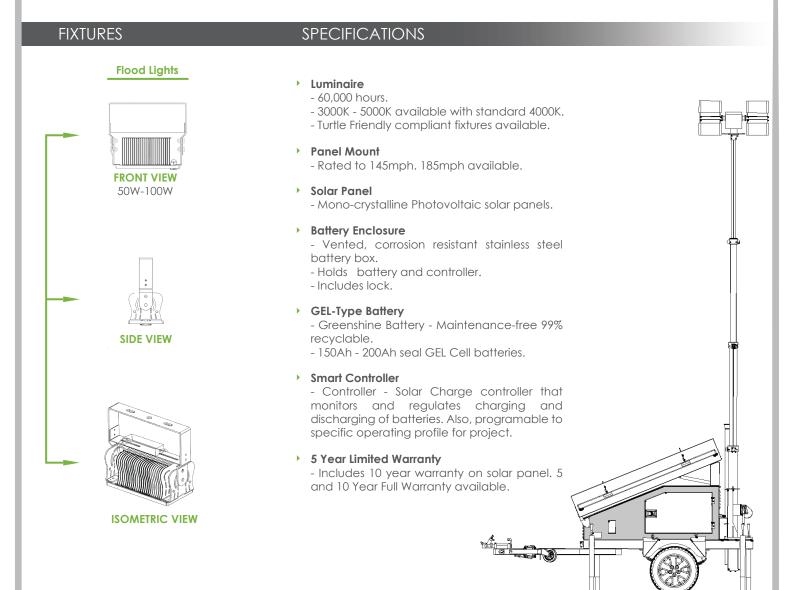




OVERVIEW

The Mobile Solar Tower Series features customizable outdoor solar light solutions depending on your specific application and an adjustable mounting bracket. Each system is completely customized according to your location, project and lighting requirements; also systems can be configured to run throughout the night or have them dim to save energy when full light is not required and with the option for a motion detection.

PART NUMBER: GS-LT-200



GREENSHINE GEL-TYPE BATTERY

Solar Powered LED Lighting System



OVERVIEW

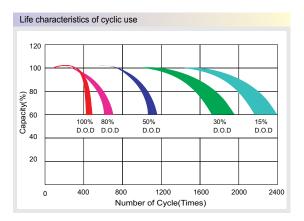
GEL deep cycle battery with a 12 years floating design life is especially designed for frequent cyclic discharge under extreme temperature.

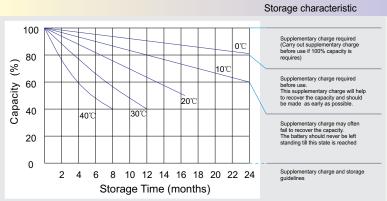


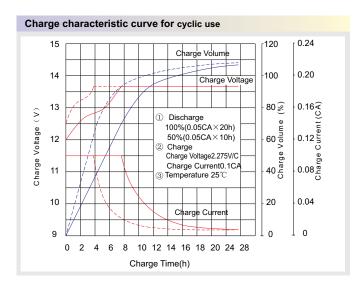
	GS-GEL-H150
Cells per unit	6
Voltage per unit	12V
Capacity	150Ah @ 20hr-rate to 1.75V per cell @ 25°C / 77°F
Weight	46kg / 100lb
Dimensions L x W x H	483 x 170 x 240(mm) 19" x 6.7" x 9.5"
Max Discharge Current	1500A (5 Sec)
Operating Temp. range	-40°C~60°C -40°F~140°F
Flot Charging Voltage	13.6 to 13.8 VDC / unit average at 25°C / 77°F
Recommended max. charging current	30A
Self-discharge	Valve Regulated Lead Acid can be stored for more than 6 months at 25°C/77°F. Self-discharge ratio less than 3% per month at 25°C/77°F. Please charge batteries before using.
Equalization and cycle service	14.6 to 14.8 VDC / unit average at 25°C / 77°F
Terminal type	5ft cooper wire leads from the battery case

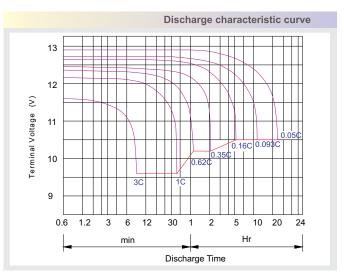
GREENSHINE GEL-TYPE BATTERY











Capacity Factors With Different Temperature

Battery	Туре	-20℃	-10℃	0℃	5℃	10℃	20℃	25℃	30℃	40℃	45℃
GEL	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
Battery	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
Battery	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V /cell	1.75V	1.70V	1.60V	
Discharge Current (A)	(A) ≤0.2C	0.2C< (A) <1.0C	(A) ≥1.0C	

Charge the batteries at least once every six months, if they are stored at 25℃.

Charging Method:

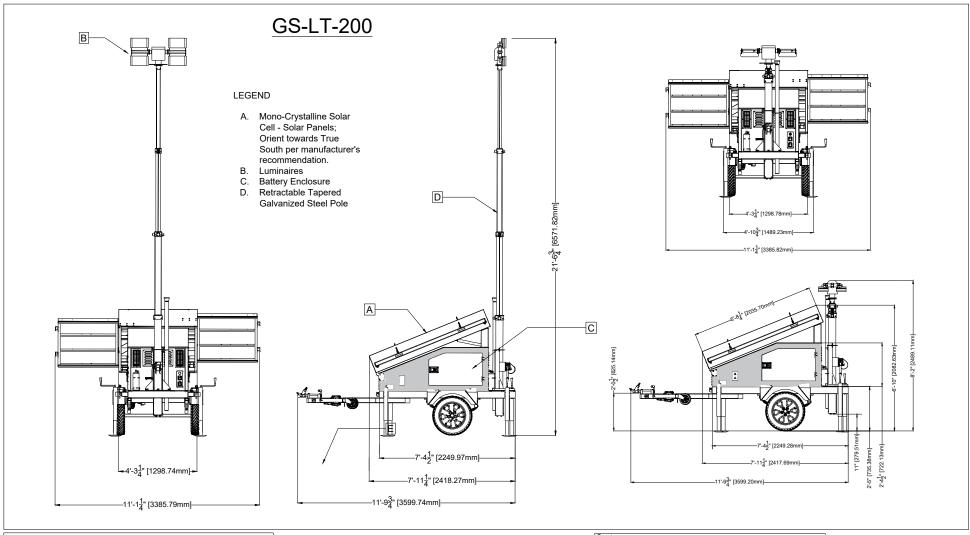
Constant Voltage	-0.2Cx2h+14.4-14.7Vx24h,Max. Current 0.2C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.2Cx6h

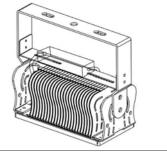
Bolt	M5	M6	M8		
Terminal	F3 F4 F13 F18 T25 T26	F8 F11 F12-1 F15	F5 F9 F10 F12 F14 F16		
Torque	6~7N-m	8~10N-m	10~12N-m		

Maintenance & Cautions

Cycle service X Avoid battery over discharge, especially battery sereis connection use. X Charged with recommend voltage, ensure battery can be full recharged. In general, recharge capacity should be 1.1-1.15 times discharge capacity. X Effect of temperature on cycle charge voltage: -4mV/℃/Cell. X There are a number of factors that will affect the length of cyclic service. The most significant are depth of discharge, ambient temperature, discharge rate, and the manner in which the battery is recharged.

Generally specking, the most important factors is depth of discharge.





- Drawings are based using hot-dipped galvanized steel, powder coating with a thickness of 5
- *EPA of the system exclude the EPA of the pole, includes the solar panels, brackets, arm and LED fixture and battery box.
- **Wind resistance of the poles are indicative and further customization can be provided.

Tilt angle of the solar panels	30
EPA (ft²)	13.3
Wind resistance** (mph)	40

Mobile Solar Tower - 3P By Luis Jimenez Date 6/9/2021 Website www.streetlights-solar.com



GREENSHINE NEW ENERGY



5 YEAR LIMITED WARRANTY

Greenshine New Energy provides a 5 year limited warranty on its solar lighting system. Greenshine will, at its option, repair or replace any Greenshine system that is defective. Additionally, certain components within Greenshine's system have extended warranty protection against failure as defined below:

COMPONENT	WARRANTY
*Solar Panel	20 Years
Pole and Mounting Brackets	5 Years
LED Light Fixture	5 Years
Electronics (Controller, driver)	5 Years
**Battery	5 Years

^{*} Greenshine New Energy warrants that the power output of the PV Modules will be at least 80% of the minimum Peak Power rating for 20 years, and warrants that for 20 years beginning on the Warranty Start Date, its photovoltaic modules, shall be free from defects in materials and workmanship under normal application, installation, use and service conditions.

Specific restrictions may apply due to site-specific conditions, please check quote's details for more information.

This warranty does not cover damage or malfunction, as determined by Greenshine service technicians or engineers, due to abuse, misuse, incorrect installation, or accident such as, but not limited to:

- Failure to follow storage, installation, operation, and maintenance instructions provided by Greenshine
- Vandalism, theft, lightning, flood, "Acts of God", and other problems beyond the control of Greenshine
- Unauthorized or improper repairs or adjustments including use of any replacement parts not provided by Greenshine.
- Deployed in an abnormal or inconsistent manner from Greenshine New Energy written and verbal instructions
- Greenshine New Energy liability and Purchaser's remedy under Greenshine New Energy warranty is limited to the replacement of any defective item, but under no circumstance shall exceed the purchase price of the goods. Other warranties may be available for an additional cost with additional coverage and/or labor allowance included.
- Any repair cost not approved by Greenshine New Energy will not be reimbursed.
- Purchaser is responsible for any and all costs involved to service and/or replace defective good including labor, shipping, and rental of equipment.
- **Greenshine New Energy provides a limited warranty for battery replacement with the following prorated coverage:
 - -0 to 2 years: 100% credit (user pays 0% of the replacement battery price)
 - -2 to 3 years: 60% credit (user pays 40% of the replacement battery price)
 - -3 to 4 years: 40% credit (user pays 60% of the replacement battery price)
 - -4 to 5 years: 20% credit (user pays 80% of the replacement battery price)