



## GS-LT-400 | GENERAL SPECIFICATIONS



## Light Fixture (4\*GS-LED-LT-400)

Luminaire Input Voltage Power Consumption Lumen

Color Temperature IES Lighting Type

Material

DC 12V | 24V

4 X 100W

60,000 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

### 435W

435 W

33.04 V

13.17 A

39.33 V

14.22 A

67.79" x 44.64"(1 Unit)

45.85 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 200AH

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

 $5 \sim 7 \text{ years}$ 

## Operation

Charging Time

Operate Time

Voltage

12 Hours

18 hours for 4 x 100W

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-400 | GENERAL SPECIFICATIONS



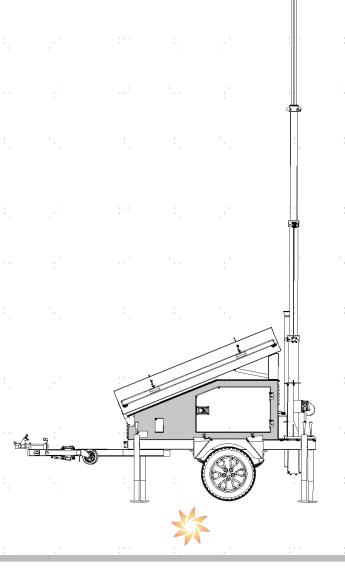
## Canopy

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

## Trailer

Type
Tire and rim size
Stabilizers
Drawbar

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



## GS-LT-400 | 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 100W

60,000 lumens

5000 K

Flood Optic

6063 Aluminum alloy

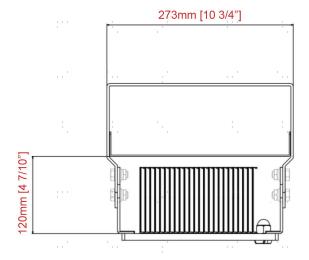
IP 65

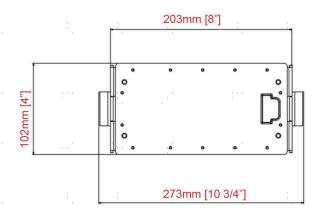
Class I

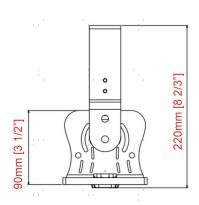
-30°C ~+50°C/ -22°F ~+122°F

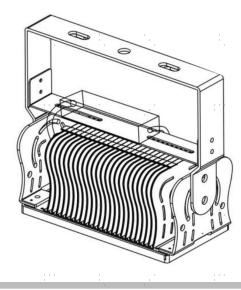
≥70

### **DIMENSIONS**











## MOBILE SOLAR TOWER SERIES

Solar Powered LED Lighting System



#### **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-400

### **FIXTURES SPECIFICATIONS Flood Lights** Luminaire - 60,000 hours. - 3000K - 5000K available with standard 4000K. - Turtle Friendly compliant fixtures available. **Panel Mount** - Rated to 145mph. 185mph available. 50W-100W Solar Panel - Mono-crystalline Photovoltaic solar panels. Battery Enclosure - Vented, corrosion resistant stainless steel battery box. - Holds battery and controller. - Includes lock. **GEL-Type Battery** - Greenshine Battery - Maintenance-free 99% recyclable. SIDE VIEW - 200Ah seal GEL Cell batteries. Smart Controller - Controller - Solar Charge controller that monitors and regulates charging and discharging of batteries. Also, programable to specific operating profile for project. **5 Year Limited Warranty** - Includes 10 year warranty on solar panel. 5 and 10 Year Full Warranty available. ISOMETRIC VIEW

## 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.



1, 21	1,	100	111	1,	12	111	1,	200	111	1,	
					GS-GEL	-H200					
Cells per unit		;	. '		6			;			
Voltage per unit	; 	'. '	·.	:	12V	: . '	:	·		:. 	
Capacity	:.				200Ah @ 20 o 1.75V pe 25°C /	er cell @	1,	.**	: ' '	1,	
Weight	·				56.5 kg	/ 124 lb					
Dimensions L x W x H	:.	1.	1.	5	22 x 218 x 2 20.5" x 8.5		,	··.	:,	÷.	
Max Discharge Current	1,				1500A (5	sec)					
Operating Temp. range	٠	:'	"	-40°(	C~60°C	-40°F~14	O°F	:"	'		
Flot Charging Voltage	1,		13.6 to 13	3.8 <sup>°</sup> VD0	C / unit av	veråge a	it 25°C	/ 77°F			
Recommended max. charging current	:,	, e <sup>1</sup>	:"	:,	30A		1,	, e <sup>2</sup>	: ' '	1,	
, Self-discharge			d Lead Acid s than 3% pe								
Equalization and cycle service	:,	٠.	14.6 to 1	4.8 VD	C / unit a	verage a	at, 25°C	./ <sub>,</sub> 77°F	:.	1,	٠,
Terminal type			5ft coop	er wire	e leads from	m the ba	attery c	ase			

# GREENSHINE GEL-TYPE BATTERY



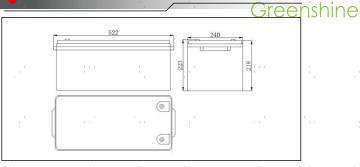


#### Specifications

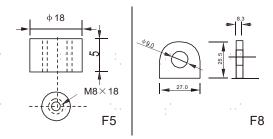
Nominal	12V ;	
Rated capacity	200Ah	
Dimensions	Total Height	223±3 mm
	Height	218±3 mm
	Length	522±3 mm
' '	Width	240±3 mm
Weight A	56.5±1.2 Kg	

#### Characteristics

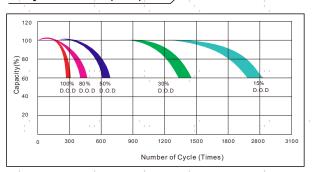
Capacity 25℃(77°F)		20 hour rate(10.9A)	218.0Ah	
		10 hour rate(20.0A)	200.0Ah	
		5 hour rate(34.0A)	170.0Ah	
		1 hour rate(113.0A)	113.0Ah	
Capacity		40°C(104°F)	102%	
	cted	25℃(77℉)	100%	
	perature	0℃(32℉)	85%	
(10 hour rate)		-15℃(5℉)	65%	
Self-Discharge at 25°C (77°F)		Capacity after 3 month storage	91%	
		Capacity after 6 month storage	82%	
		Capacity after 12 month storage 64%		
Charge	Cycle	Initial Charging Current less than 50.0A		
(constant Voltage)	Float	13.5-13.8V		
		· .		



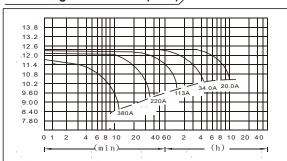
#### Terminal Type



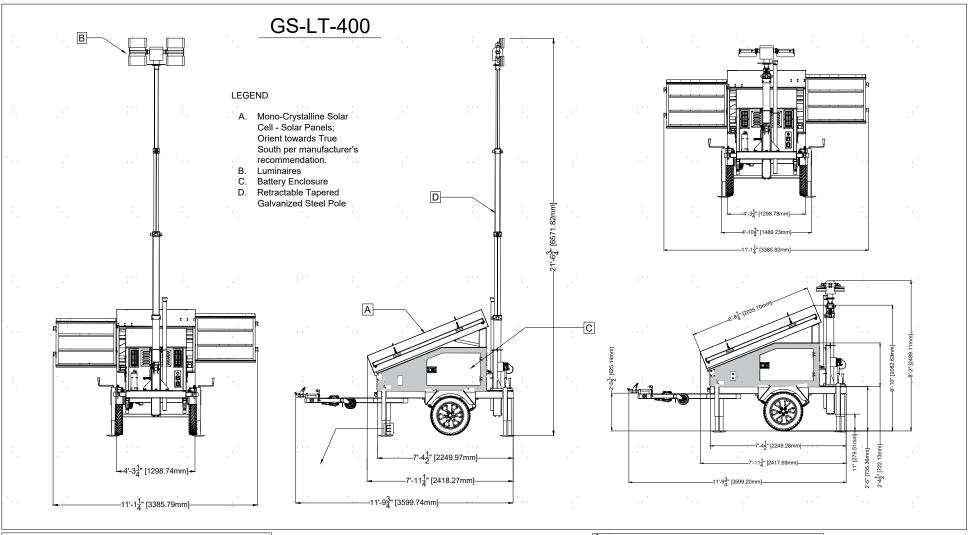
#### **●** Cycle Life 25°C(77°F)

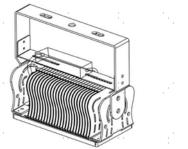


#### Discharge Curves 25<sup>°</sup>C(77<sup>°</sup>F)



Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25 ℃(77 °F)											
Time	;	10min	30min	1h	2h	3h	4h	5h	8h	10h	20h
0.60\$7	A	, 380	220	110	70	, 52	42	35.6	23.2	, 22	11.4
9.60V	W	3731	2120	1130	665	517	415	348	244	215	113
10.2037	A	365	208	113	66.8	51	41	34.8	22.8	20.7	11.2
10.20V	W	3678	2062	1102	658	507	409	339	236	211	.111
10.50V	A	340	194	112	65.2	50	40	34	22.5	20.2	11.0
10.30 V	W	3351	2020	1094	654	504	405	326	228	208	109
10.9077	A	320	180	106	63.6	49	39	30.4	21.9	19.5	10.4
10.80V	W	3196	1886	1068	647	500	400	312	224	205	107
11.10V	A	300	168	100	62	47	38	29	21.3	19.0	10.0
	W	3036	1707	1021	638	486	394	301	222	202	106





- 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.
- $^{\star\star}$  Wind resistance of the poles are indicative and further customization can be provided.

Tilt angle of the solar panels		; · · 30	1,	
EPA (ft²)		13.3		
Wind resistance** (mph)	: '	40	٠	:

System	
Mobile Solar Tower - 3P	١.
Ву	
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)	1.5 Years 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
**Battery	5 Years

<sup>\*</sup> 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)