

Portable Solar Lighting Tower

LT4100S

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- GB 7000.1-2002
- GB7003-86
- GB/T3741-1999
- IEC60598-1
- GB4208-2008
- VSB 1 Rev 4 June 1999
- AS3000: 2018
- AS3010: 2017

Design Conditions

- Installation place: outdoors.
- Working Temperature: 0° to 50° (-25° with optional kit)

Painting Process

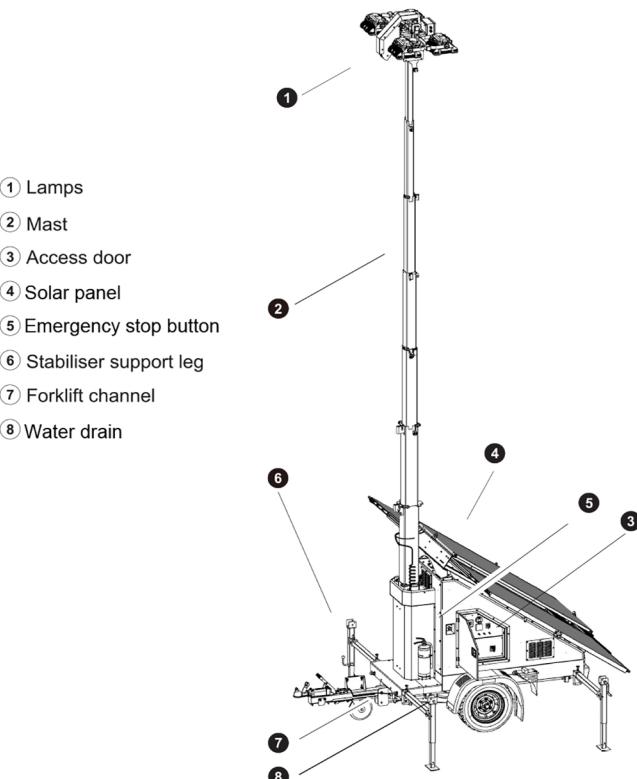
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Lumen Output 60000lm
- Mast Height 7.5 Metres
- Mast Type : Hydraulic
- Hydraulic light pole lifting (5850mm), rotating (355°), pitching (80°)
- 4 x 100W LED Modules
- Coverage:60 x 40m at 5 lux
- Trailer Type: Single Axle
- Tyre and Rim Size:14'
- Stabiliser Supports :4 x Manual
- Mudguard / Wheel Chock:Included
- Security: Wheel lock / hitch lock, wheel clamp, folding drawbar
- Features:Timer, day/night modes, jack pads, audio safety messages fire extinguisher, isolators, tilt sensor
- Easy maintenance
- Operation Manual/Specifications

3 Equipment Specification

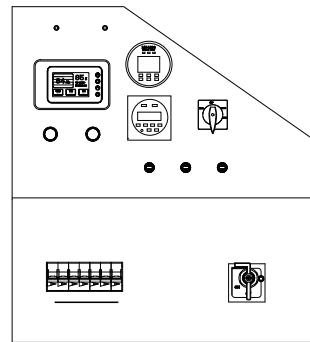
Model.....	SL60K
Light type.....	LED
Luminous flux(Max)lm.....	60000
Approximate Weight.....	1390kg
Total lighting wattage	4x100W
Tire number	2
Dimensions (Fully retracted).....	2300*1472*2515mm
Dimensions (Fully extended).....	3230 *3610*7500mm
Tilting Angle of Light Fixture rotation	80°
Maximun towing speed.....	80km/h
Maximun wind speed rating.....	90km/h
Efficiency (solar).....	1 hour of sun/4 hours of light
Fully extended/retracted time	8/10s
Hydraulic oil type	L-HM46
Average daily working hours.....	10H
Continuous lighting duration.....	50H
Voltage/Ampere	DC 48V/8.3A



Battery

Battery.....	15 kWh Lithium
Runtime.....	40 Hours
Capacity of battery.....	15000wh
Depth of discharge.....	95%
Number.....	1
Battery operating voltage.....	45V ~ 57.6V DC
Rated battery voltage.....	51.2V DC
Charging and discharging current.....	<100A
Number of cycles.....	3000 times at 25°C
Battery discharge depth.....	<80%
Battery operating temperature.....	-10°C ~ 50°C
Communication mode	RS485/CAN

Control System



This control system is an advanced control module based on microprocessor, which is suitable for solar tower. The controller is equipped with a powerful graphical display that displays ICONS, symbols and bar charts for intuitive operation. Accurately measure various operating parameters, and display all values and alarm information on the LCD.

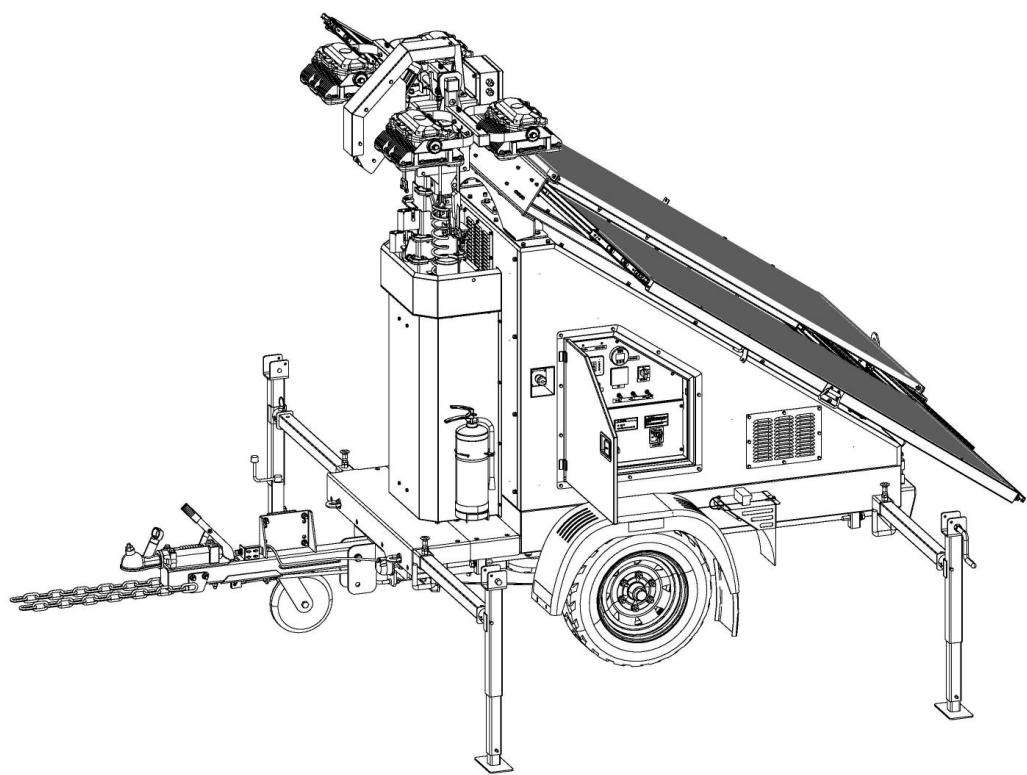
Solar panel

Max power of solar panel series panel.....	1380W
Maximum conversion efficiency	21.32%
Average daily working hours.....	10H
Solar panel open circuit voltage.....	41.33V DC
Maximum working current of a solar panel board.....	13.45A
Number.....	3
Dimension	1903*1134*30mm
Weight.....	24.2kg

- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of light tower
- Manual, automatic and remote work mode selectable
- Adjust the lamp Angle and operate the lamp
- The micro circuit breaker is configured
- The battery isolation switch is configured

LED Light

Number.....	4
Power.....	100W
gross power.....	400W



5 Illumination region parameter

Lighting area 5000m² effective lighting area 2400m²@5LM.

