

SUNGLOW TOWER SERIES



SUSTAINABLE



RELIABLE



ECO FRIENDLY



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LIGHT YOUR
SITE TONIGHT

COST SAVINGS

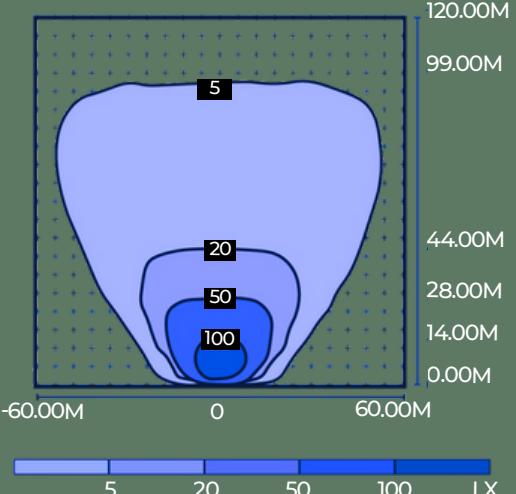
zero fuel consumption
helps lowering the
environmental footprint.



KEY FEATURES

- Adpower Solar Light Towers utilize a Plug-and-Play Supercapacitor-based energy storage module, offering a multitude of advantages compared to traditional chemical batteries
- 100% Green, Noise-Free, Fuel-Less, Emission-Free
- Projected Life up to 25 years
- Runtime up to 26 hours with 6.5 hours of solar charging (with full capacity).
- Mobile Light Towers with IP67- LED Lights and 7m-9m Manual Telescopic Mast, powered using Solar 2, 3 & 4 PV Panels for different models
- Capable of rotating 350 degrees for optimal illumination coverage.
- Equipped with electric operation for precise control and adjustment of light direction.
- Adjustable up to 80 degrees to optimize solar exposure and energy capture.
- Features electric operation for effortless adjustment of panel angle to maximize solar efficiency.
- Powder coated towable road worthy trailer
- The solution can be operated between -30 to 85 Degree C .
- The solution Can be used for fully autonomous Mobile Solar Traffic Sign, Mobile Solar surveillance, Mobile Solar Radar Station, Mobile Solar Generator System and many other applications.

Light plot for SunGlow 400 at 7.0m



CO² NEUTRAL

Zero Carbon Footprint
Over The Life Cycle



COST SAVING

Zero Operating Cost
Quick ROI



EASY OPERATION

Simple DC System
Plug & Play Operation



SUPER-CAP ENERGY STORAGE

CHARACTERISTIC COMPARISON BETWEEN CHEMICAL BATTERIES AND SUPER-CAPS

Attributes	Li-ion	Lead Acid	Super-Cap
Warranty	Limited Warranty Up to 10 years	Up to 3 years	Up to 5 Yrs - No EOL degradation
DC Roundtrip Efficiency	90-80%	70%	Up to 99.1%
Depth of Discharge (DOD)	70-80%	50-60%	100%
Operating Temperature	<50°C	<27°C	<85°C
Charge Current	Limited	Limited	1C – 2C (Up to 10C)

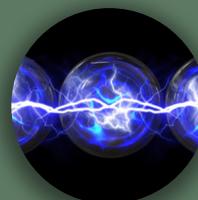
What makes Adpower's Solar Light Towers Different & More Reliable than other Solar Light Towers in the Market.

Adpower has implemented advanced graphene supercapacitor-based energy storage technology to maximize the efficiency of solar energy systems. This innovative implementation not only reinforces Adpower's commitment to sustainable energy solutions but also delivers enhanced performance, reliability, and environmental benefits compared to traditional chemical battery systems.

Our energy storage system harnesses the power of electrostatic energy, while conventional batteries rely on electrochemical processes to store energy.

The supercapacitor energy storage solution is entirely free from chemicals, resulting in zero carbon footprints. It boasts the following essential characteristics:

- 100% Depth of Discharge
- Ambient Op. Temperature -30 to 85°C
- 1M Cycles (at Cell Level)
- Super fast charging rates
- No Risk of Thermal Runaway
- No Energy produced during Cycling
- No Cooling required



Adpower's Super-cap stores
Energy Electrostatically



Conventional batteries store
Energy Electro Chemically

TEACHNICAL DATA



Sunglow-400

Type Of Light	4*100W LED
Light Output	60,000 Lumens
Light Rotation Control:	Electric
Solar Panel Tilt Control	Electric
Light Rotation Angle	Versatile (350°)
Solar Panel Angle	Adjustable (Up to 80°)
Solar Panel	3 X 510-520 W (BI-FACIAL)
Battery Capacity	6kWh Super-Capacitor
Charing time 0-100%	6.5 Hours
OP. Hours at Full charge	14 Hours
Controller	MPPT 60A
System Voltage	DC 24V
Mast Materials	Galvanized
Maximum Height	7m
Mast Section	4
Lifting System	Manual Winch & Crank
Battery Charger	Optional
Trailor Type	Single Axel
Tyer And Rim	2*175/65R14
Stabilizers	4*Manual Adjustable Stabilizers
Tow Hitch	70mm Ring
Dimensions	Lx350cm,Wx125cm,Hx295cm
Weight	1365KG



Mobile Solar Traffic Sign



Mobile Solar surveillance



Mobile Solar Radar Station



Mobile Solar Generator System