Technical specifications

Hilight MS3



Solar Light Tower Image for illustration purposes only

General description

Super efficient light tower with 3x ultra-efficient 100 Watt LEDs that will light up to 30,000 sqf from 23 ft height. Its LiFePO4 battery can provide light for up to 2-3 full winter nights. With its three double bifacial solar panel system, it takes just 5 hours to recharge. This towable light tower is ready to supply light with zero emissions, offering a greener solution for efficient performance in small metropolitan construction areas, events, or traffic applications.

TECHNICAL INFORMATION

Light coverage sqf (average 13 luxes)	sqf / m^2	32300 / 3000
Max Ambient temp | humidity	°F / °C | %	122 / 50 | 85
Min Ambient temp	°F / °C	14 / -10
Rated voltage	VDC	48
Autonomy all lights on	h	14
Altitude capability	ft / m	9900 / 3000
Relative air humidity maximum	%	85
Light power		3 x 100 W
Solar Panels		3 x 450Wp
Inbuilt AC charger / time to charge	V / W / h	120 / 450 / 11
Battery Nominal / Net Energy	kWh	4.8 / 4.3 @ 90%DoS
Protection Class		IP55
Dimensions Folded| Deployed (L x W x H)	inch	148x55x98 |148x141x285
Battery charge time (full sunshine)	h	5
Weight	lbs / kg	1750 / 800
Sound pressure level	dB(A)	No Noise - Silent

The standard reference conditions are: 25 °C, 100 kPa and 30% relative humidity.

INTERFACE

LCD Screen	inch	5
On board charger / Conenction	500w	NEMA 5-15P

Lights

SMD utrafficient LED flood lights

Quantity	3	**Efficiency lum/watt**	200 Lm/W
Power	100W	**Luminous Flux**	20,000 Lm
CCT	5000k	**Life time**	50,000 h
Light Distribution	100º x 30º	**IK Grade**	IK10
		Standards	CLASS - C340283

Nominal values for standard conditions and performance

Battery

On board battery provids long cycle life, with excellent performance over many charge and discharge cycles. The integrated BMS protects the battery cells, ensuring

Quantity	1		
Battery Nominal Energy	4,8	**Expected cycle life (@ 70% DoD)**	6000
Net Energy @90%DoD	4,3		
Warranty*	3 Year	**Standards**	IEC62619, IEC63056 UN38.3,UL1973

**@25ºC*

Solar Panels

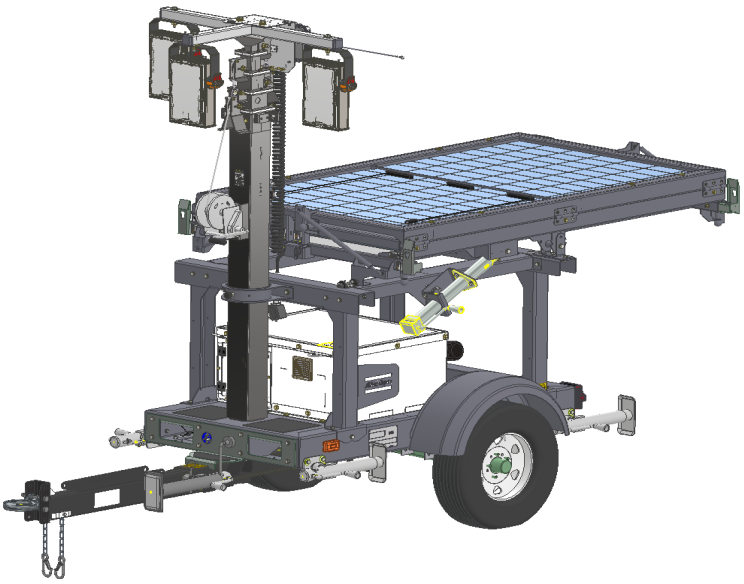
Ultra efficent Bifacial Solar Panels made in US

Quantity	3	**Rated Power**	450 Wp
Lifetime	25 years @ 85% Power	**Standards**	IEC61215;2016, IEC61730:2016, UL61760, IEC62804, IEC61701, IEC62716, IEC60068, IEC61215, UL61730
Efficiency	20.79%		
Bifaciality	70%+/-10%		
Warranty*	4 Year		

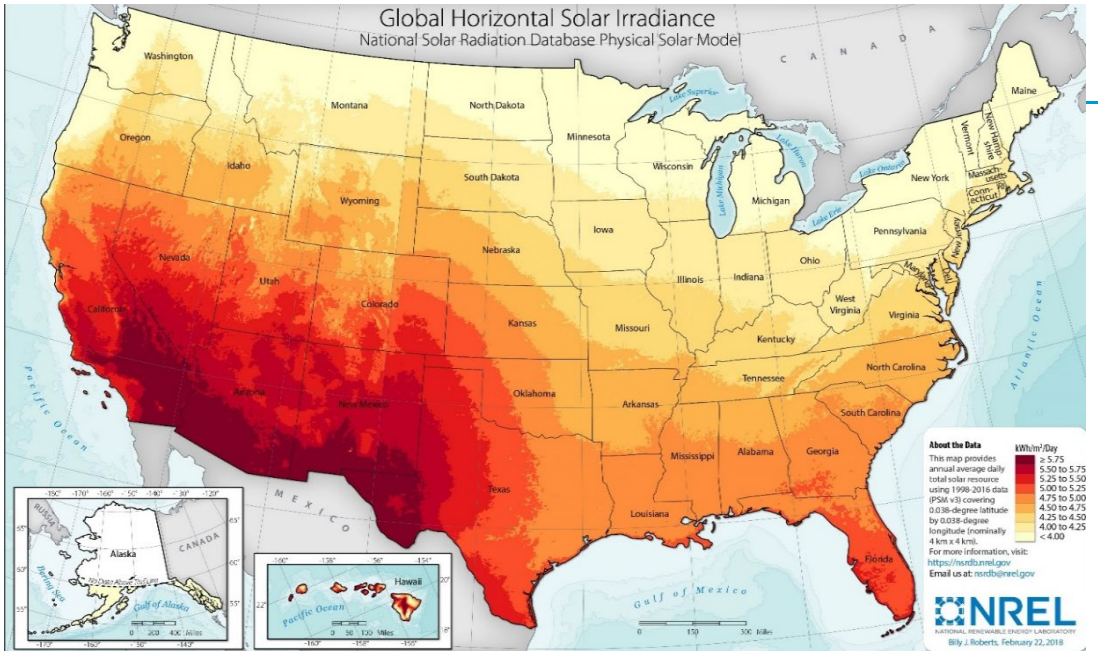
Nominal values for standard conditions and performance

Warranty* Following terms and conditions





Hilight MS3 |Solar



Recommended Dimming Setting for 6h light	Summer	Winter	Fall-Spring
	100%	100%	100%
	100%	100%	100%
	100%	75%	100%

Recommended Dimming Setting for 9h of light	Summer	Winter	Fall-Spring
	100%	100%	100%
	100%	75%	100%
	100%	50%	75%

Recommended Dimming Setting for 12h of light	Summer	Winter	Fall-Spring
	100%	75%	100%
	75%	50%	75%
	50%	25%	50%