



Magnus Solar Light Towers



Our
Solar Light Towers
can be fully
customized with
your company's
color and logo.

POWERED BY FREE RENEWABLE ENERGY FROM THE SUN

The Magnus line of Solar Light Towers offers a highly efficient alternative to traditional diesel, gas, or electric generator-powered light towers. Harnessing solar energy, Magnus Solar Light Towers provide a portable yet powerful lighting solution, delivering silent, zero-emission illumination.

Magnus Solar Light Towers

Features

- Zero emissions, no fuel usage, and no electricity bills.
 - 200 lumens per watt, delivering up to 90,000 lumens.
 - Dusk-to-dawn functionality via photocell.
 - Minimal maintenance with no engine, alternator, or fuel required.
 - Automatic and manual modes, including power-saving options.
 - Adjustable-tilt solar array for optimal sun exposure.
 - Rechargeable with standard 120V charging option.
 - Dimmable LED lights that can be individually directed.
 - Electric mast with an integrated safety system.
 - Maintenance-free sealed batteries.
-

Applications

Construction Sites:

Our innovative, silent, zero-emission, off-grid portable solar light tower is transforming the construction industry. It efficiently lights up your workspace while enhancing security—all without the need for fuel.

Disaster Relief:

In disaster situations, the ability to rapidly provide emergency lighting is crucial for saving lives and reducing damage.

Night Traffic Emergencies:

These high-intensity, vehicle-mounted telescoping light towers deliver the essential illumination for safely conducting nighttime rescue, disaster relief, and investigative operations.

Mining:

Light towers are an indispensable asset in mining, serving as crucial equipment for ensuring continuous operations.

Film & Television Industry:

The Portable & Mobile Solar Light Tower provides zero-emission, quiet lighting, ideal for film and television production sets.

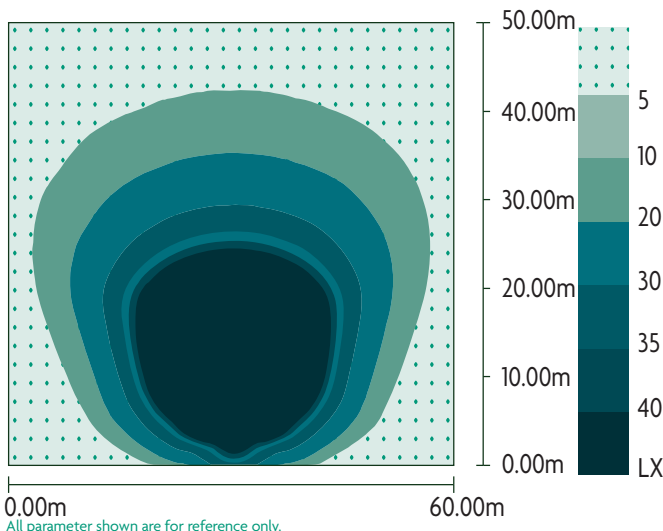
Outdoor Events:

Light towers make it easier than ever to stage events by offering reliable security and illumination.

Utility Companies:

Solar Light Towers offer utility companies a fuel-free solution for a wide range of operational needs.

The Magnus MST-400N Solar Light Tower provides bright, energy-efficient lighting solution powered by free renewable energy from the sun. It can be used in light to moderate lighting applications where a diesel, gas, or electric generator-powered light tower is needed.



SPECIFICATIONS

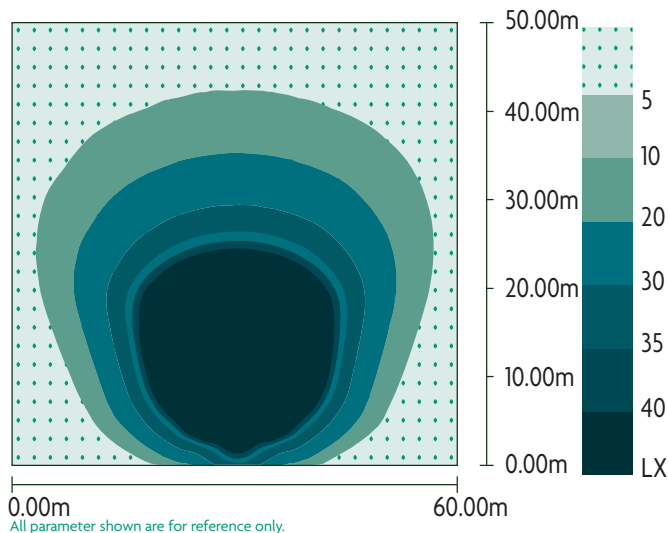
Solar Panel	1 X 435W
Panel Lifting	0°~90° Manual Lifting
LFP Battery	1 X 200Ah DC12.8V
Battery Capacity	2,560Wh 95% DoC
System Voltage	DC12V
Battery Charger	Optional
LED Lamp	2 X 100W, 30,000Lms
Lighting Area (5 Lux)	1,013 M ²
Rotation	/
Tilt	/
Controller	40 MPPT
Mast & Height	4 Sections 4M
Mast Lifting	Manual Winch
Trailer Standard	/
Hitch	/
Brake	/
Axle	/
Tire	/
Outriggers	Optional
Lifting Ring	4 X
Forklift Holes	4 X
Working Temp	-20°C~50°C
Charging Time	5.9 hours
Running Time	12.2 hours
Dimmensions (in.)	39.37 X 39.37 X 114.17
Weight (Lbs)	881.8
QTY in 20' / 40'	10 units / 20 untis

OPTIONAL ITEMS



Victron

The Magnus MST-800M Solar Light Tower provides bright, energy-efficient lighting solution powered by free renewable energy from the sun. It can be used in moderate to heavy lighting applications where a diesel, gas, or electric generator-powered light tower is needed.



SPECIFICATIONS

Solar Panel	2 X 435W
Panel Lifting	10°~45° Manual Lifting
GEL Battery	4 X 200Ah DC12V
Battery Capacity	9,600Wh 80% DoC
System Voltage	DC24V
Battery Charger	Yes
LED Lamp	4 X 100W, 60,000Lms
Lighting Area (5 Lux)	1,481 M ²
Rotation	350° Electric
Tilt	90° Electric
Controller	40 MPPT
Mast & Height	7 Sections 7M
Mast Lifting	Manual Winch
Trailer Standard	US / AU / EU
Hitch	2" Ball / 3" Ring
Brake	Electric
Axle	Single
Tire	14 inch
Outriggers	Optional
Lifting Ring	4 X
Forklift Holes	4 X
Working Temp	-35°C~60°C
Charging Time	19.2 hours
Running Time	19.2 hours
Dimensions (in.)	145.6 X 84.64 X 108.26
Weight (Lbs)	2,204.62
QTY in 20' / 40'	10 units / 20 untis

OPTIONAL ITEMS



LFP Battery



Victron

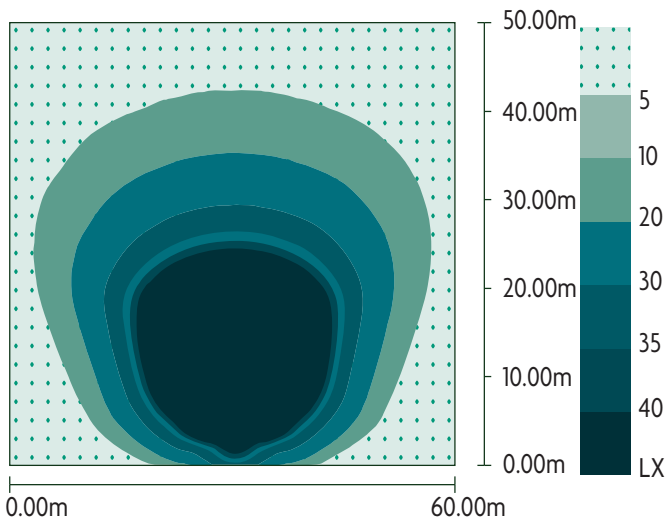


AL-KO



Skid Type

The Magnus MST-1200L Solar Light Tower provides bright, energy-efficient lighting solution powered by free renewable energy from the sun. It can be used in heavy lighting applications where a diesel, gas, or electric generator-powered light tower is needed.



All parameter shown are for reference only.

SPECIFICATIONS

Solar Panel	3 X 435W
Panel Lifting	30°~45° Electric Lifting
GEL Battery	6 X 200Ah DC12V
Battery Capacity	14,400Wh 80% DoC
System Voltage	DC24V
Battery Charger	Yes
LED Lamp	4 X 150W, 90,000Lms
Lighting Area (5 Lux)	2,310 M ²
Rotation	350° Electric
Tilt	90° Electric
Controller	60 MPPT
Mast & Height	5 Sections 7M
Mast Lifting	Electric Winch
Trailer Standard	US / AU / EU
Hitch	2" Ball / 3" Ring
Brake	Mechanical
Axle	Single
Tire	15 inch
Outriggers	Optional
Lifting Ring	4 X
Forklift Holes	2 X
Working Temp	-35°C~60°C
Charging Time	9.3 hours
Runing Time	19.2 hours
Dimmensions (in.)	139.76 X 61.41 X 110.23
Weight (Lbs)	3,086.47
QTY in 20' / 40'	3 units / 7 units

OPTIONAL ITEMS



LFP Battery



Backup Genset



Wind Turbine



Inverter



Victron



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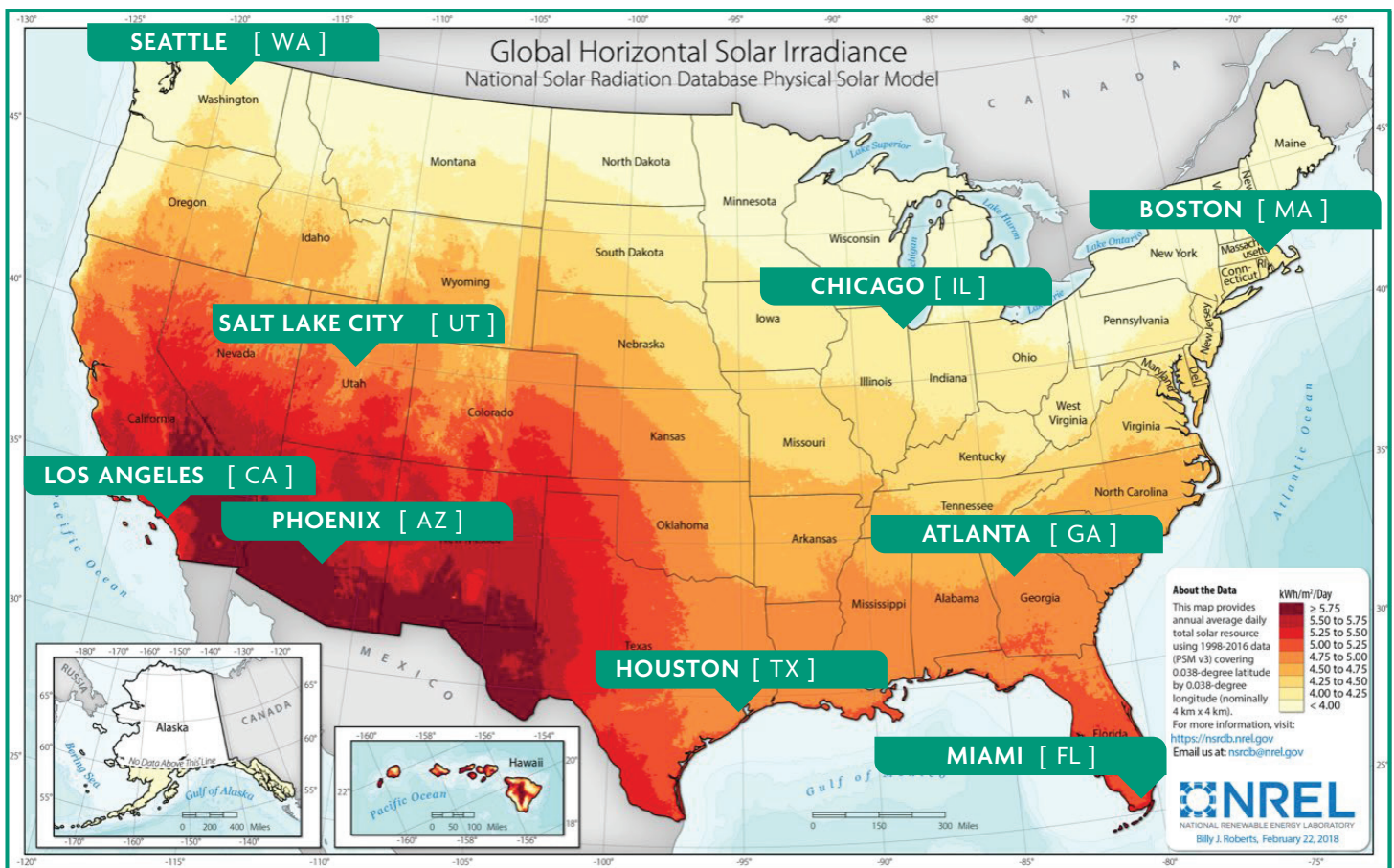
Skid Type

Hybrilux | SOLAR YIELD VS DEMAND

The Magnus Solar Light Tower features exceptional charging efficiency for consistent performance and extended runtime. Powered by batteries, its automated solar charging system ensures the batteries stay charged. The advanced MPPT controller boosts charging capacity by 30%, making the most of every available amp for peak efficiency. When solar energy production exceeds the light's energy needs, autonomous operation is possible. However, when energy demand surpasses solar output, external charging is necessary.

In this solar light tower performance chart, the Hybrilux team selected nine major cities in the U.S. to show how environmental temperature and seasonal variation impact the charging performance.

The charts shown are representative of dusk-to-dawn operation, 7 days a week.



1000W/m²/day—US Photovoltaic Average Per Day

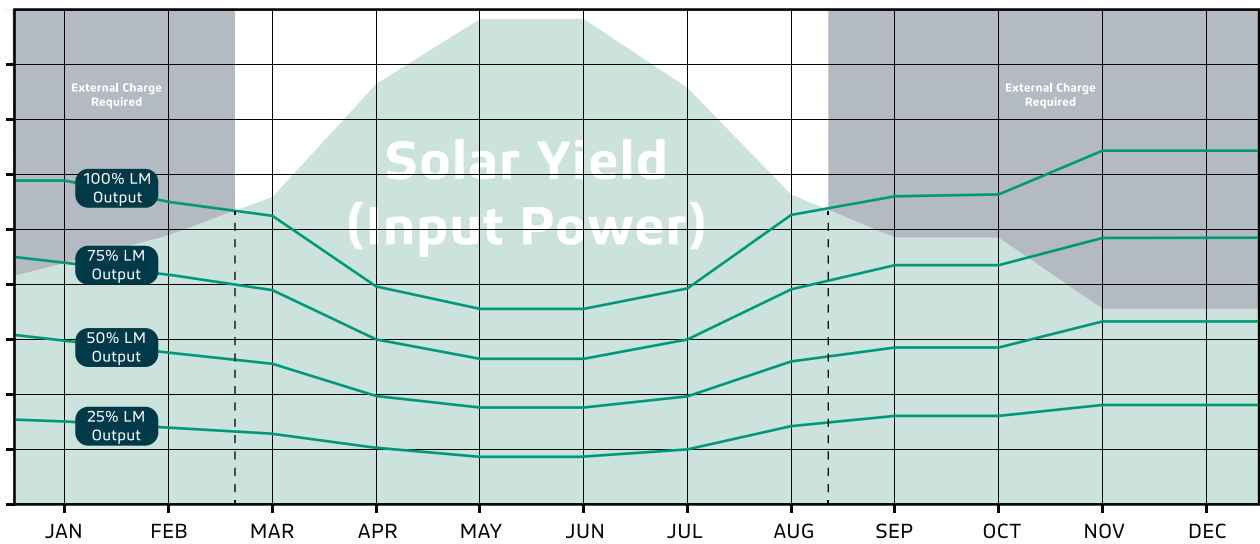
NOTE: This infographic displays solar insolation values for the capital city in each US State. The actual value for your project will vary depending on location. Sun hours are calculated assuming a south-facing panel at 45 degree tilt and winter sun hours.

Annual average solar resource data is shown for a tilt-latitude collector. The data for Hawaii and the 48 contiguous states is a 10km, satellite model dataset (SUNY/NREL, 2018). The data for Alaska is a 40km dataset produced by the Climatological Solar Radiation Model (NREL, 2018).

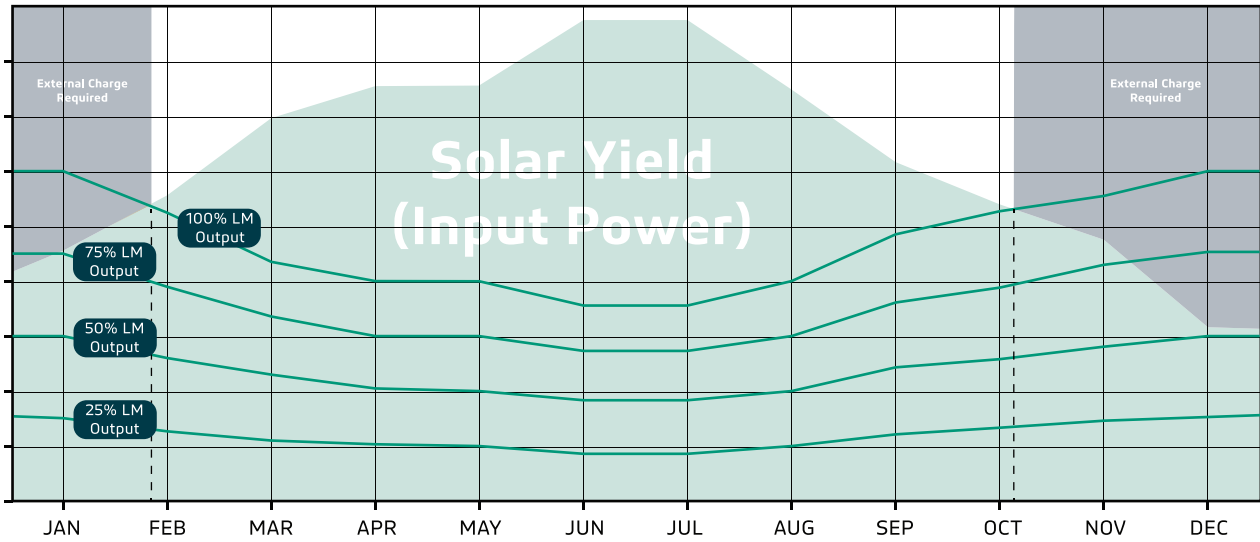
Hybrilux

| SOLAR YIELD VS DEMAND

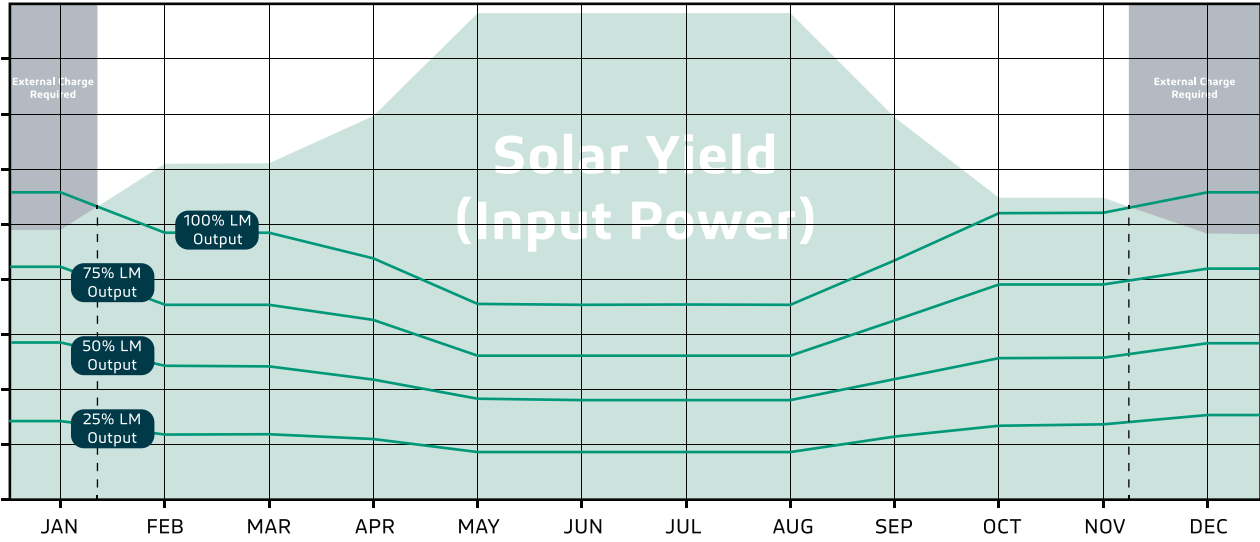
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SALT LAKE
[UT]



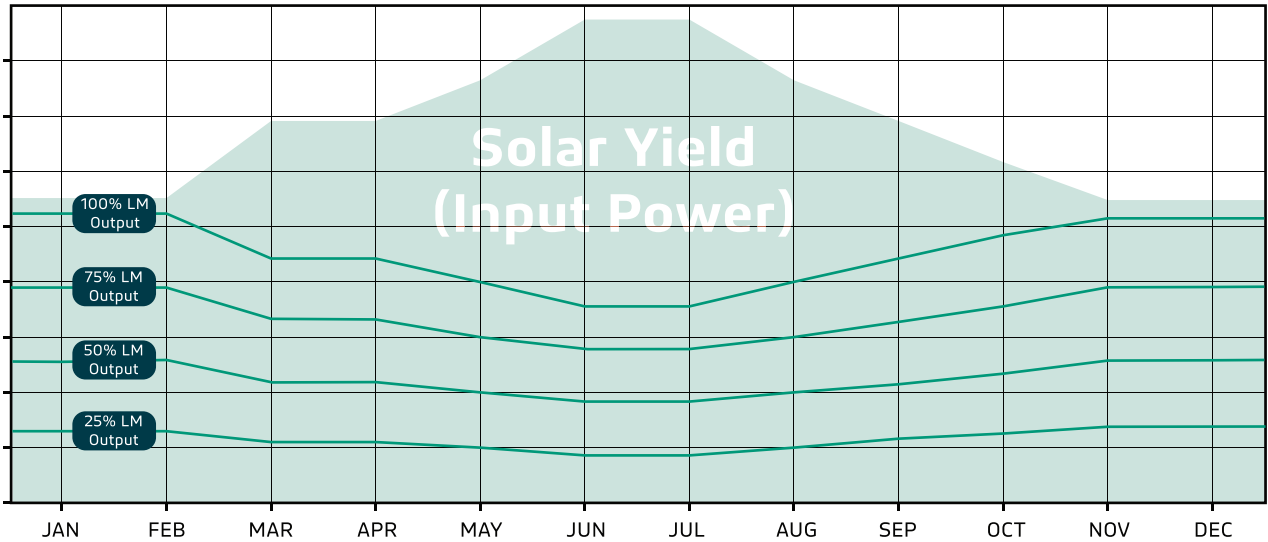
LOS
ANGELES
[CA]



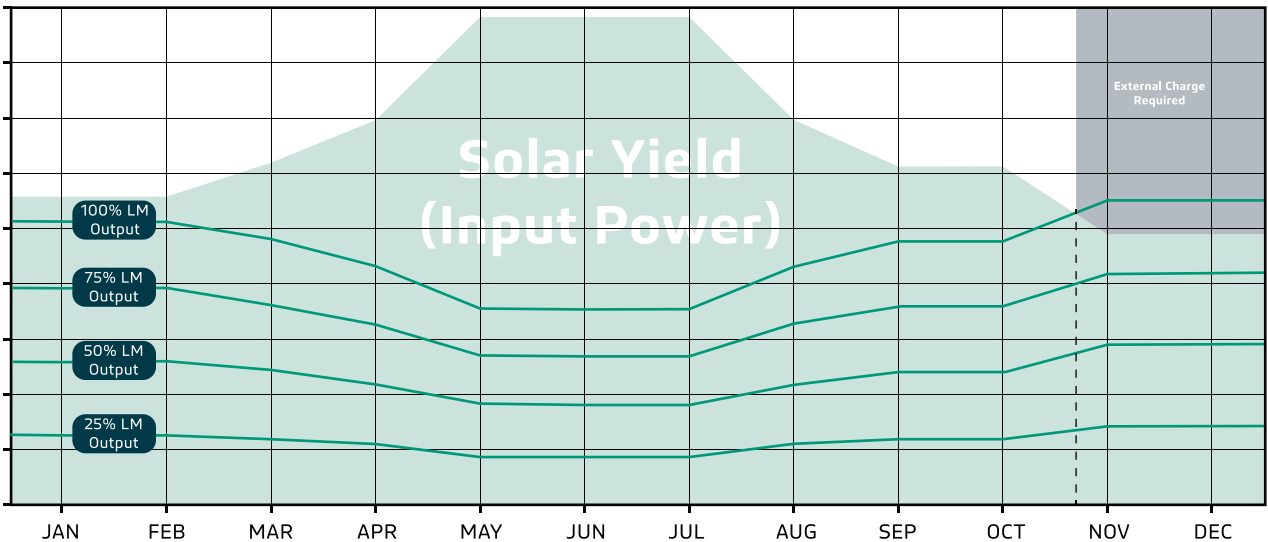
Charging performance chart sunlight data comes from <https://www.gaisma.com> based on each city in the U.S.. The data shows 2024 yearly daytime of each city.

Hybrilux | SOLAR YIELD VS DEMAND

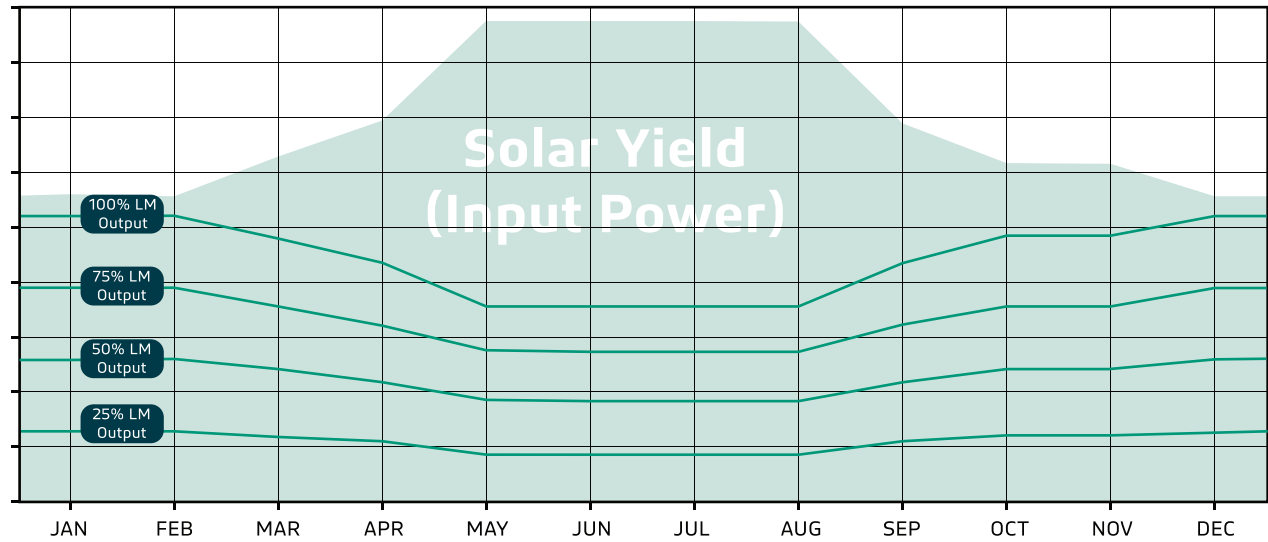
PHOENIX
[AZ]



HOUSTON
[TX]



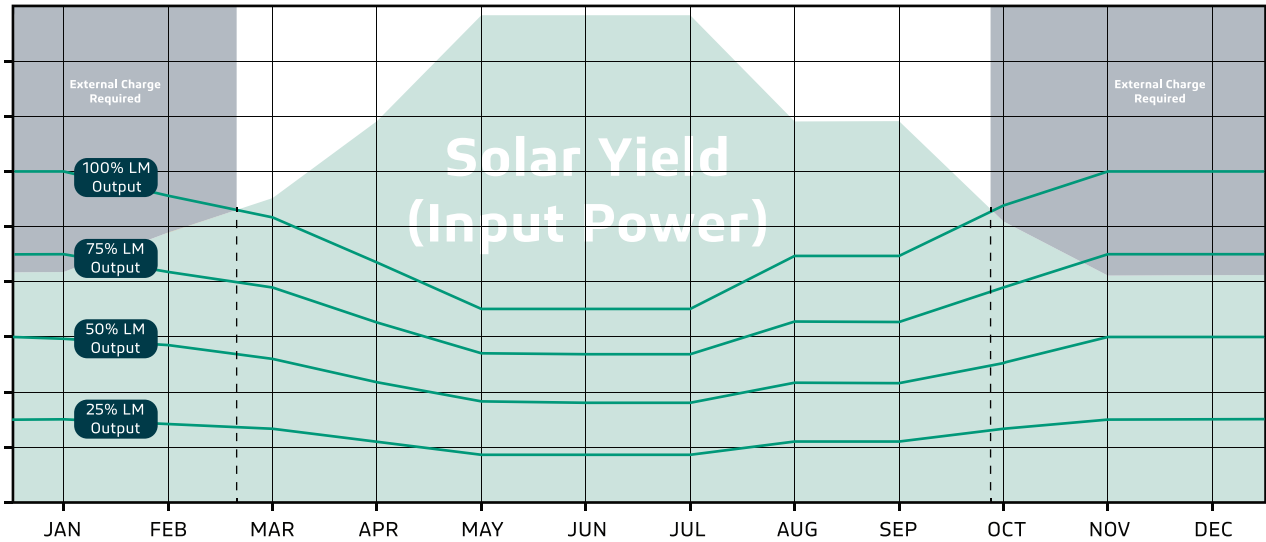
MIAMI
[FL]



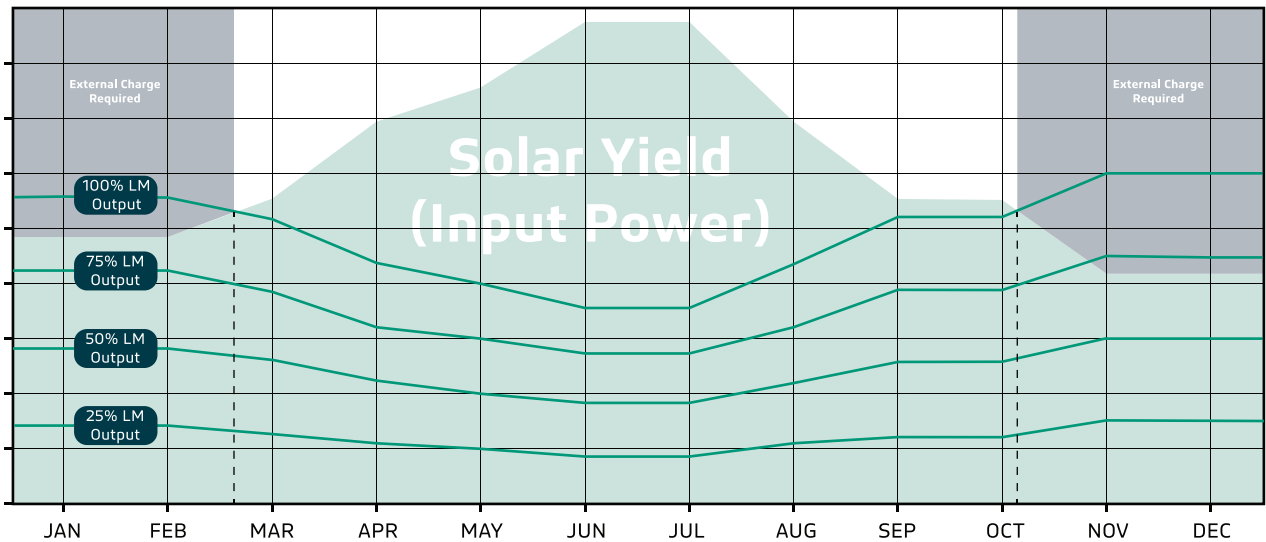
Charging performance and grid data are based on data from <https://www.epa.gov/energy/energy-storage-and-grid>. The data shows the 2024 yearly 2024 yearly electricity of each city.

Hybrilux | SOLAR YIELD VS DEMAND

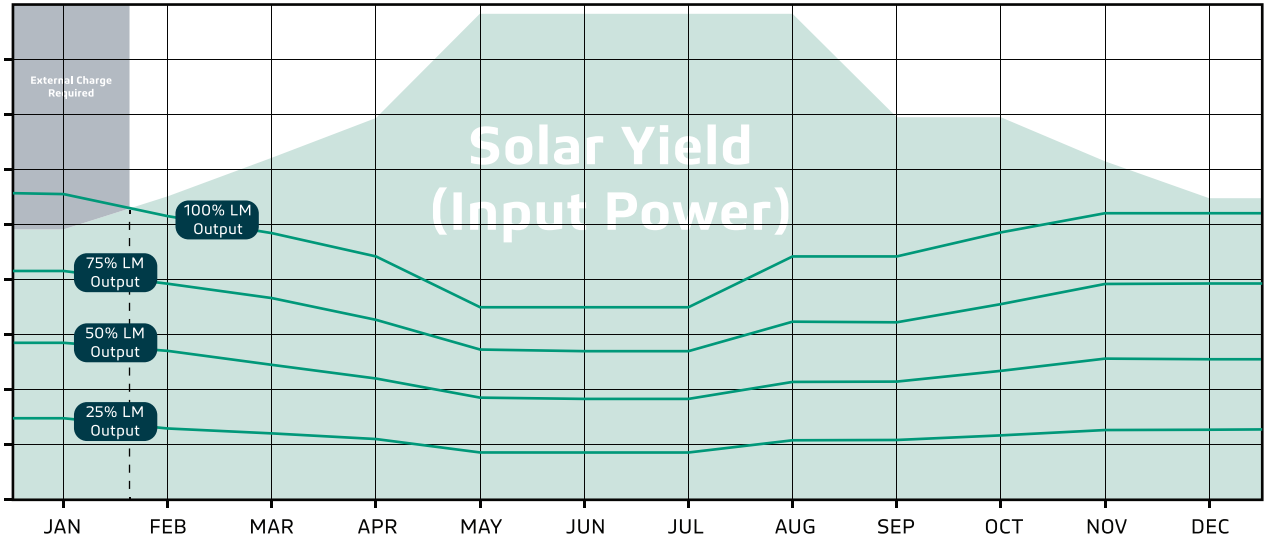
BOSTON
[MA]



CHICAGO
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ATLANTA
[GA]



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