



CapaSeries

LED Solar Lights



Sales Agent

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あつても、やっぱりエル光源!

L-kougen

L-Kougen Capa Series Sales Performance (Cumulative, 2008 ~ May 2016)

Domestic 4889 installations, Overseas 288 installations

The problem with most solar lights:
"Battery life is too short"

Solar lights have long been criticized for their poor battery life, but the Capa Series has solved this problem with an original idea and some new technology. The Capa Series has since been a hit, and in 2012, private corporations made up 40% of all orders. We are headed steadily towards widespread adoption.

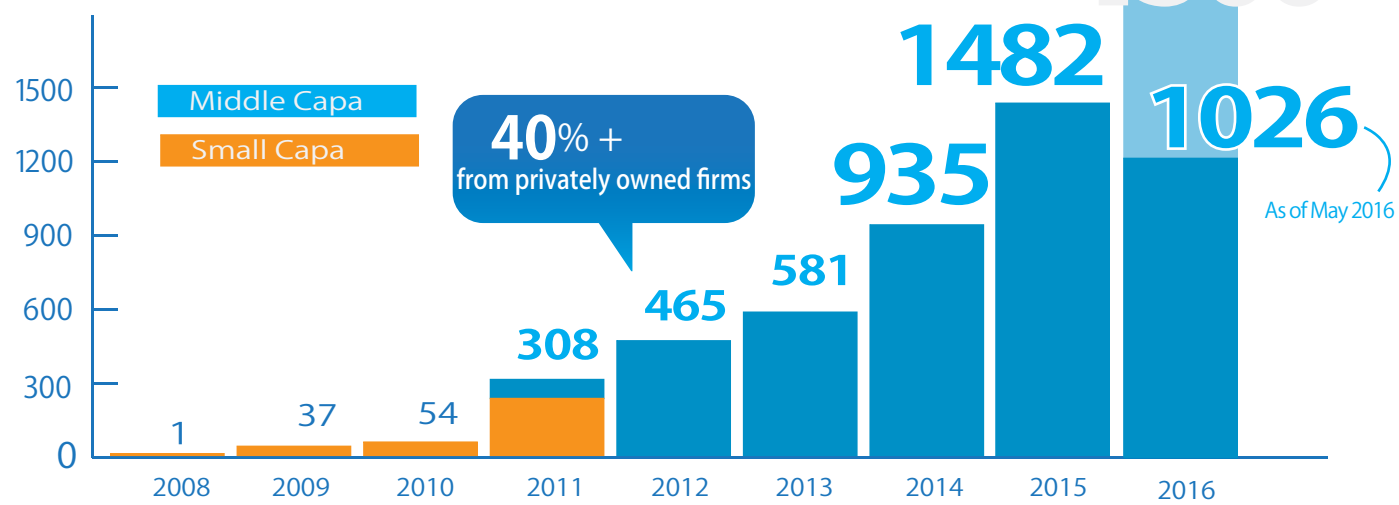
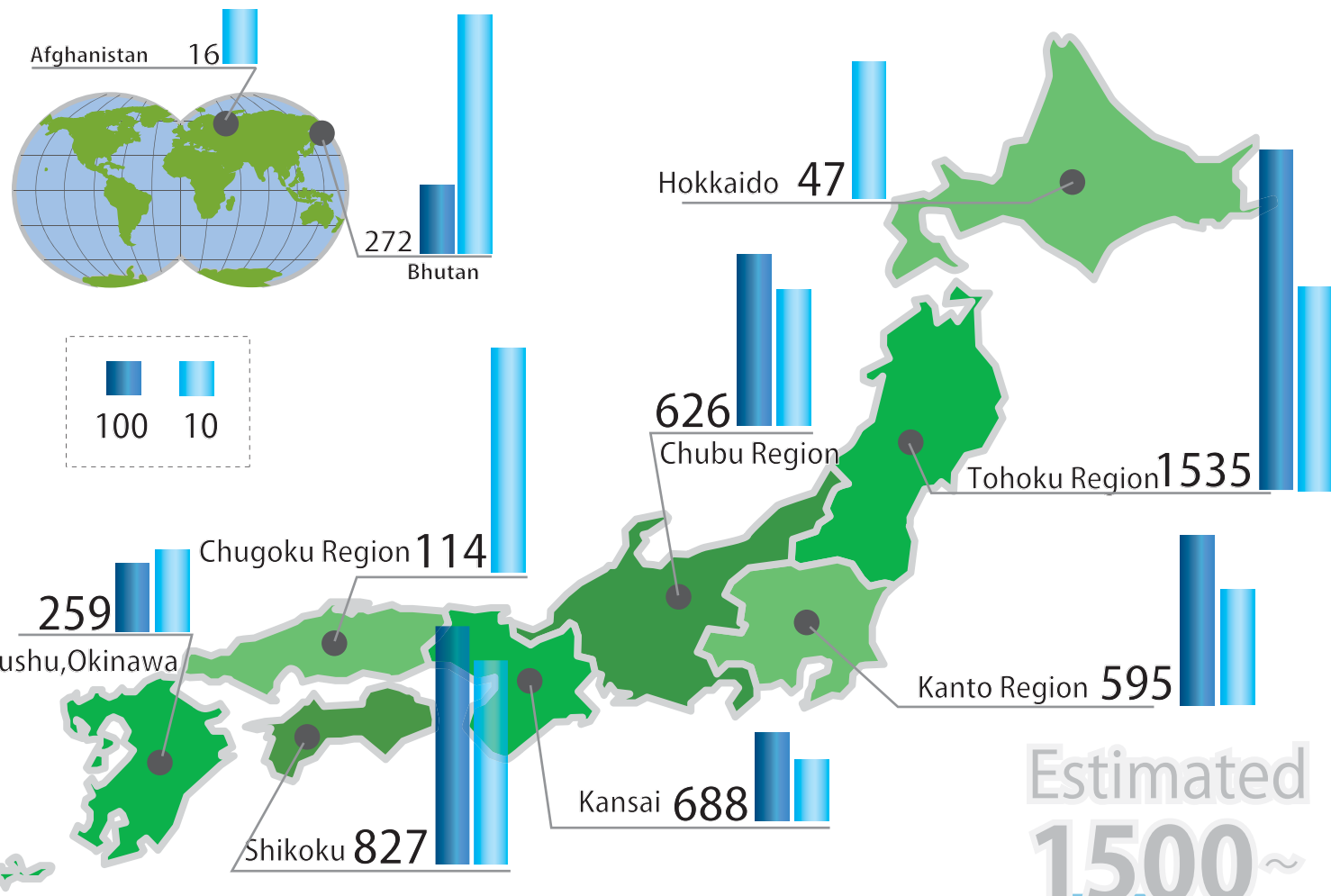


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Making a Truly Practical Solar Light

Our development started with the simple desire to make a practical solar light; a solar light that isn't just "eco-friendly", but a solar light that can rival conventional lighting in performance. We are always aiming to make our solar lights more practical.

1

What makes the Middle Capa Plus different from conventional solar lights?

Uses a High Cycle Lithium Ion Battery



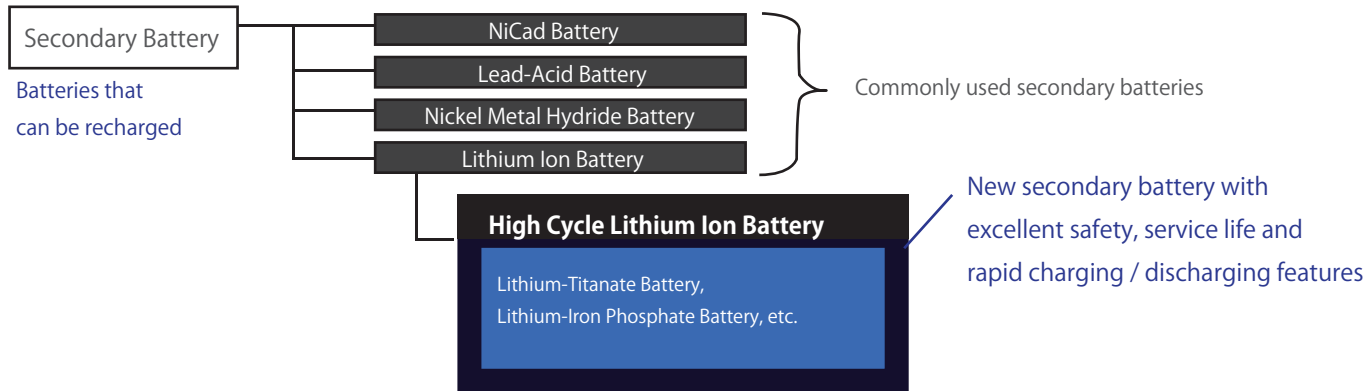
Li-ion batteries, "Toshiba SciB™" and "NEC ALM™"

Notable features that set them apart

① Low Temperature Performance, ② Safety, ③ Long Service Life

SciB and ALM greatly outperform conventional Li-ion batteries in these areas.

The Capa Series solar lights were developed to take advantage of these features



By using this battery, we were able to make a highly practical solar light that can operate in a wide range of environments and usage scenarios.

Wide Range of Temperatures (-20°C ~ 45°C)

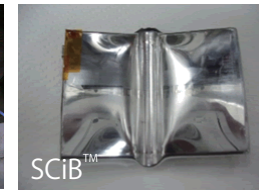
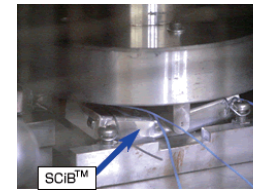
Can operate in a wide range of temperatures. For this reason we were able to create a solar light that can operate from -20 to 45 degrees Celsius. Can be used anywhere in Japan, from Hokkaido to Okinawa.

【Image】

Even in the middle of the winter (Ebetsu, Hokkaido), the Middle Capa Plus will operate flawlessly.



High Durability



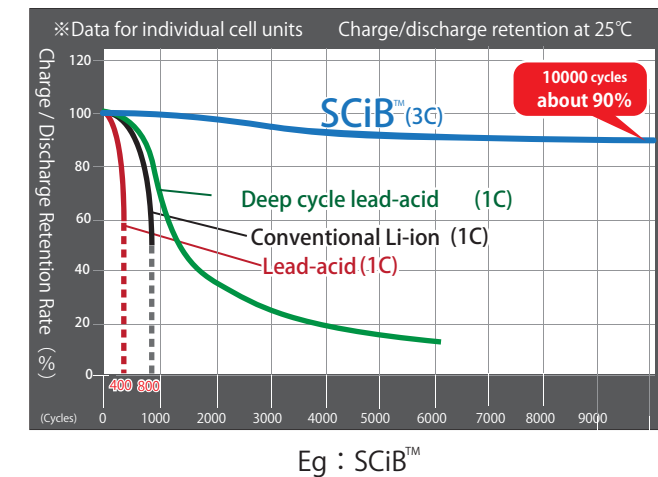
Lithium titanate batteries and olivine-type lithium iron phosphate batteries are stable at high temperatures, changing their electron conductivity, making them very safe.

Pictured: A short circuit test under extreme stresses. The battery does not show any signs of thermal runaway, leaking, or catching on fire.

Long Service Life & Maintenance-Free Usage

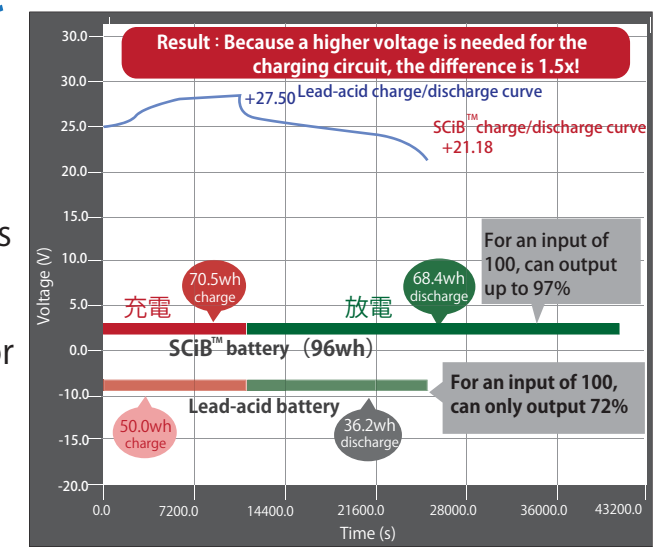
Until now, many solar lights required a battery replacement after about 3 years. By using a high cycle battery, we were able to achieve long-term maintenance free usage.

The diagram summarizes the cycle data for different kinds of batteries. Even though the SciB battery was tested at 3C, it shows dominant performance in cycle retention rate compared to its competitors.



1.5x Charge / Discharge Capacity

For example, SciB compared to a standard lead-acid battery, can discharge about 1.5 times more for the same given charge. While you can only achieve a 70% discharge to charge ratio for lead-acid batteries, SciB can achieve 97%. This allows SciB batteries to remain effective on days with very little sunlight.



(From Our Measurements) e.g. SciB™

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2

What makes the Middle Capa Plus different from conventional solar lights?

The Weather Synchronization

System Adapts to Inclement Weather

Turns on every day

The high cycle Li-ion battery allows for more efficient charging on days with bad weather. However, the battery may have trouble charging after a string of days with bad weather. This is why we developed the Weather Synchronization System. Simply put, it adjusts the brightness of the light at night based on the charge accumulated over the day.

Until now, solar lights would prepare a larger than necessary battery as a countermeasure for inclement weather. However, as you can see from the data, the number of days the battery does not charge fully in a year is less than 20% (17.7%) in Tokyo. Adding a battery with 5 ~ 10 times the necessary capacity for these days is neither practical nor economical.

For Weather Synchronization, if the battery does not charge fully over the day, the system will proportionally decrease the brightness of the light at night, but in return, the light will stay on throughout the night. For example, if the battery is 45% charged, the brightness of the light will be decreased by 55%. Even for extremely low battery levels, like 10%, the light will be very dim but will not fade until its predetermined time in the morning. This avoids a situation where the light turns off completely in the middle of the night. A 30% decrease in brightness according to a luminometer (measured in lux) is barely noticeable for most people. In fact, it is only after a 50% decrease in brightness that some people can detect a difference in brightness. This is because humans, unlike luminometers, adjust their pupils to take in more light.

Until Now

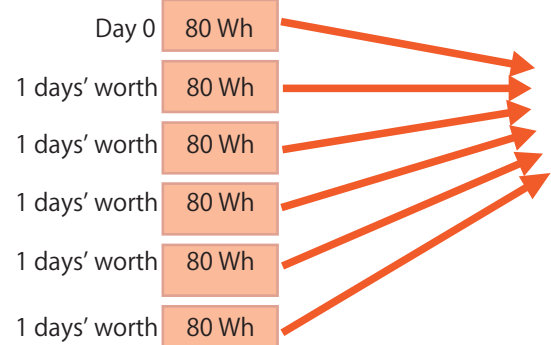
Power Used 80Wh

Weather Synchronization System

Power Used 80Wh

Because it cannot charge on days with little sunlight, it charges 5 days worth (varies by specifications). The battery capacity is greatly increased to accommodate this.

(Power Generation)



Battery that can charge 5 days' worth of power

Maintenance box at bottom of the pole for easy access



In general, the battery stores the same electrical power that it uses during the day. For days with little sunlight (rainy, cloudy), the Weather Synchronization System is activated.

The key factor is the amount of sunlight per day. If there is more than 8MJ, the battery will most likely reach a full charge. When it is less than this, the battery may not charge fully, resulting in a dimmer light at night. For example, an 80% battery charge will result in a 20% decrease in brightness.



Also used to light sign boards

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3

What makes the Middle Capa Plus different from conventional solar lights?

Turns on 365 Days a Year

Shines all year long

Middle Capa Plus V2 (January ~ December 2013)

Relationship between weather, charge, and brightness of light

Measurements (Edogawa, Tokyo)

January 2013					February					March					April					May					June				
Day	Weather	Sunlight (MJ/m ²)	Charge (%)	Brightness of light (%)	Day	Weather	Sunlight (MJ/m ²)	Charge (%)	Brightness of light (%)	Day	Weather	Sunlight (MJ/m ²)	Charge (%)	Brightness of light (%)	Day	Weather	Sunlight (MJ/m ²)	Charge (%)	Brightness of light (%)	Day	Weather	Sunlight (MJ/m ²)	Charge (%)	Brightness of light (%)	Day	Weather	Sunlight (MJ/m ²)	Charge (%)	Brightness of light (%)
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July					August					September					October					November					December				
Day	Weather	Sunlight (MJ/m ²)	Charge (%)	Brightness of light (%)	Day	Weather	Sunlight (MJ/m ²)	Charge (%)	Brightness of light (%)	Day	Weather	Sunlight (MJ/m ²)	Charge (%)	Brightness of light (%)	Day	Weather	Sunlight (MJ/m ²)	Charge (%)	Brightness of light (%)	Day	Weather	Sunlight (MJ/m ²)	Charge (%)	Brightness of light (%)	Day	Weather	Sunlight (MJ/m ²)	Charge (%)	Brightness of light (%)
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14	☀️	18.32	100	100	14	☀️	20.77	100	100	14	☀️	15.12	100	100	14	☀️	15.92	100	100	14	☀️	12.02	100	100	14	☀️	11.13	100	100
15	☀️	20.42	100	100	15	☀️	24.21	100	100	15	☀️	7.64	100	100	15</														

Making a Truly Practical Solar Light

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More Practical

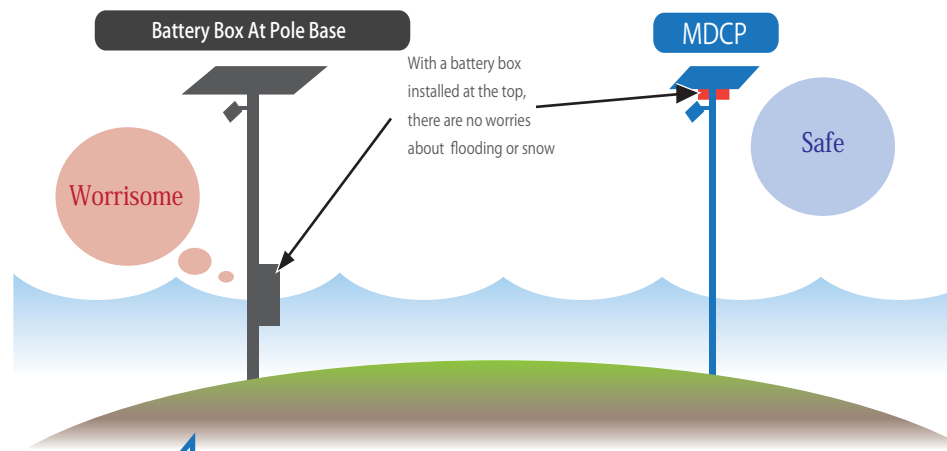
Reliable lighting when you need it most

Small, Light Battery No longer need a large battery box at the pole base

The way lead-acid batteries were used until now necessitated a large battery box. Because it is difficult to install a heavy battery box at the top of the pole, these models commonly featured battery boxes at the pole base.

However, this can be an obstruction, such as when these are installed near roads. Also, a battery box at the pole base is susceptible to flooding and accumulated snow.

Unlike lead-acid battery Solar lights, the Capa Series features a light battery with a slim pole.



The Capa Series is especially effective against natural disasters. The Capa Series is gaining demand for lighting places like tsunami evacuation facilities and other emergency lighting.

Guidance Lights for Natural Disasters



Different designs for different towers

【 Example 】
Shizuoka tsunami evacuation tower

Making a Truly Practical Solar Light

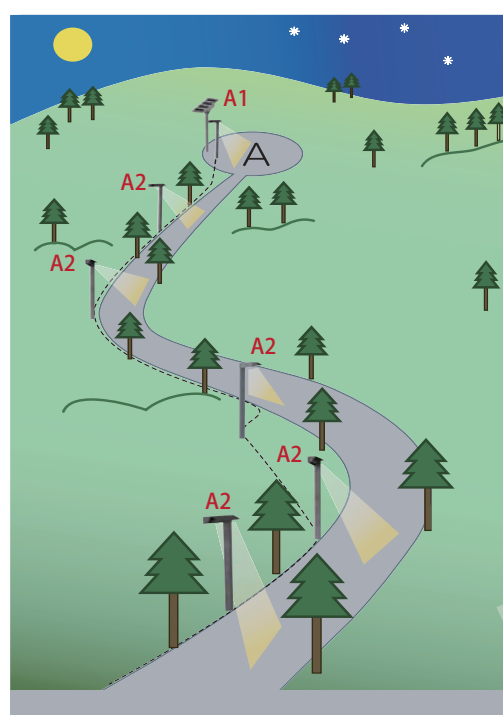
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Install Anywhere! ①

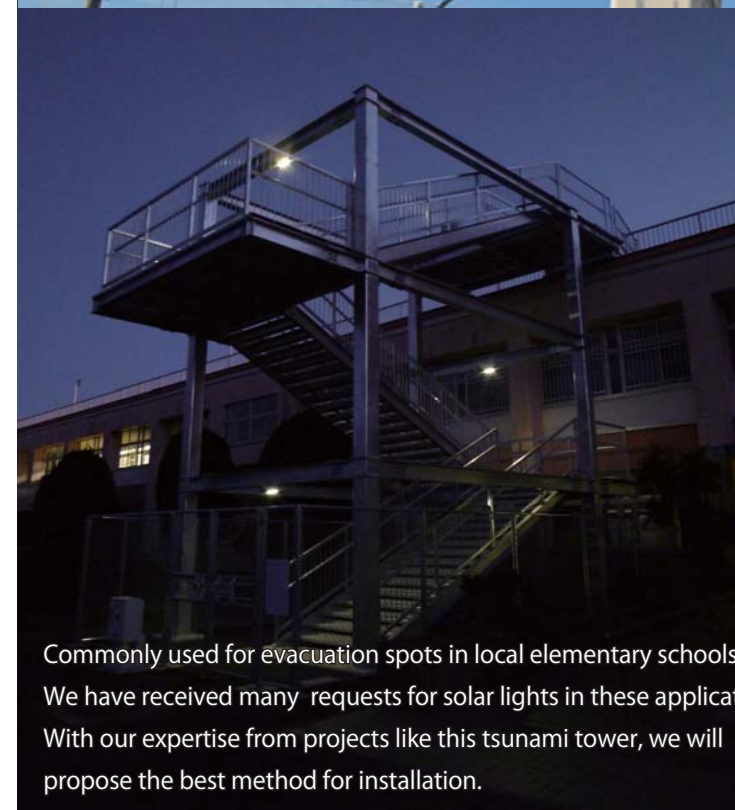
"Separate Model" for evacuation guidance lights

Can Illuminate a Dim Evacuation Road

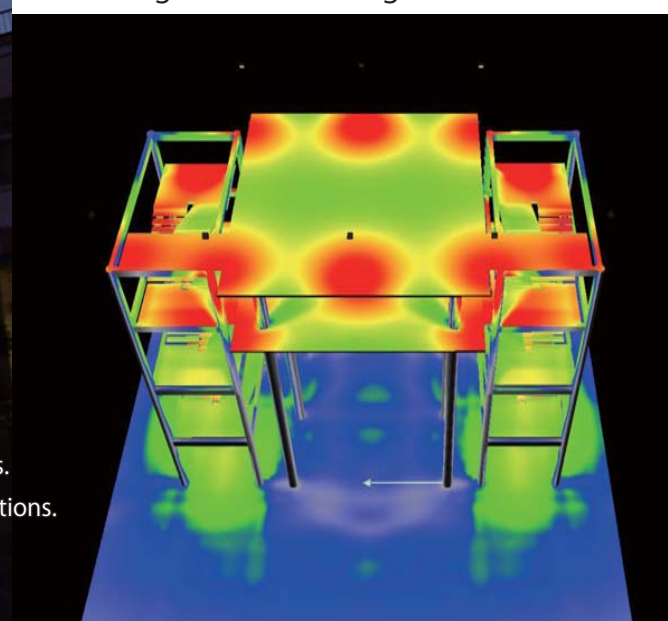
The popular "Separate Model" separates the solar panel from the light



Until now, it was difficult to install a solar light in woodlands because of the lack of sunlight. This is why we decided to place the solar panel somewhere convenient, separate from the light. This greatly expands the possibilities of solar lights, proving to be a popular model.



We can perform 3D brightness simulations, to better inform your decisions on placement and brightness of the lights.



Commonly used for evacuation spots in local elementary schools. We have received many requests for solar lights in these applications. With our expertise from projects like this tsunami tower, we will propose the best method for installation.

Making a Truly Practical Solar Light

Our development started with the simple desire to make a practical solar light; a solar light that isn't just "eco-friendly", but a solar light that can rival conventional lighting in performance. We are always aiming to make our solar lights more practical.

Install Anywhere! ②

This freedom makes it even more practical

Can be installed anywhere, and even relocated

Can utilize existing walls and poles, save on construction costs

The below image is an actual installation case. Because it does not require a large battery box, this solar light can be installed on existing electrical poles, walls, and many other places. There is no need to install a new pole or base, so you save money on the anchor bolt, pole and associated construction costs. This "Anywhere Model" makes up over half of the solar lights we sell.

Furthermore, after installation, it is possible to relocate the solar light if needed. You can change the placements of your solar lights economically this way.



Moves freely

Both the solar panel and the light are free to rotate 360 degrees. The panel can be tilted 45 degrees from its horizontal position. No matter where you place this solar light, it will be effective.



Light can tilt 0 ~ 30 degrees

Basic Specifications for the Capa Series

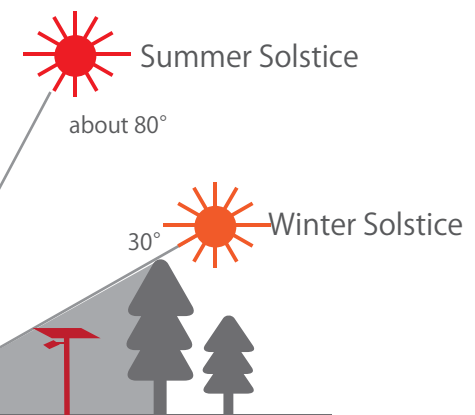


We convert solar energy to electricity with the solar panel, and store the electricity in the battery. Once the solar light determines that it is night from the panel voltage, it will use the stored electricity to operate the LED light. The solar light will turn off the LED light when the panel starts charging again in the morning.

Be aware of large shadows

Make sure that the installation site exposes the entire solar panel to sunlight throughout the year. Even if there is no problem from spring to fall, please make sure that sunlight will reach the panel on the winter solstice, when the sun is the lowest. It is required that the solar panel is exposed to direct sunlight for proper charging.

★ It is important that the entire panel is exposed to sunlight, otherwise if even a small portion of the panel is shaded, the solar panel's efficacy is severely reduced



Installing in cold climates

Be careful when installing in snowy areas, because there is a chance that the panel gets covered with snow, preventing the battery from charging. We can discuss appropriate countermeasures, such as installing the panel at angle, so please consult us beforehand.

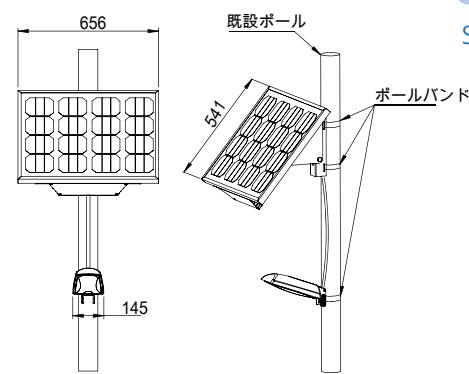
Warnings

- ! The pole type solar light is designed for wind loads up to 60 m/s. Do not install anywhere with wind loads greater than this value. Also, please consult us before installation of the existing pole mounted types and the approach type solar lights.
- ! Do not use in areas with temperatures above 45 degrees Celsius. This will cause the solar light to fail.
- ! Please consult us for installations in cold climates and regions with short days. In some cases, this can cause failure in the solar light and its instrumentation.
- ! Please conduct routine inspections.
- ! This product is for general outdoor use (weather-proof). Do not install anywhere else.

Middle Capa Plus V2 Pole-Mounted Model

MDCN-L1N5
MDCN-L1T5

This model can be installed onto an existing pole, eliminating the need to purchase and install a new pole. Not only do you save money on the pole and anchor, but you also reduce construction costs.



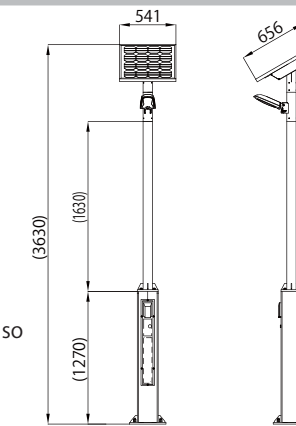
Specifications

- Solar Panel : 50Wp monocrystalline silicon
- Battery : L1N5 : 132wh
L1T5 : 264wh
- Light : (Cover) Acrylic resin
(Body) Cast aluminum
- LED : Power LED

Middle Capa Plus V2 Emergency Electrical Outlet

MDCS-L1N5-ACU
MDCS-L1T5-ACU

This model adds an AC and/or outlet to the functionality of the Middle Capa. The pole is split into two parts for easy shipping. The lights and the AC outlet are wired separately, so using the AC outlet will not affect the light's performance.



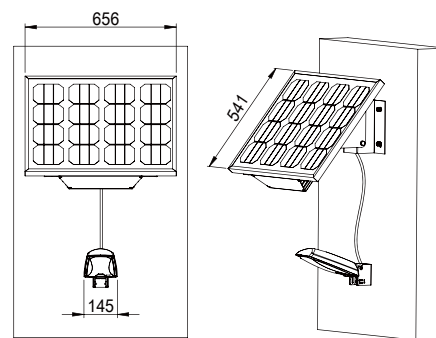
Specifications

- Solar Panel : 50Wp monocrystalline silicon
- Battery : L1N5 : 132wh
L1T5 : 264wh
- Light : (Cover) Acrylic resin
(Body) Cast aluminum
- LED : Power LED
- Pole : Upper (Ø89), lower (Ø200)
Galvanized steel
urethane resin coated

Middle Capa Plus V2 Wall-Mounted Model

MDCW-L1N5
MDCW-L1T5

This model can be installed onto existing walls. Not only do you save money on the pole and anchor, but you also reduce the construction costs.



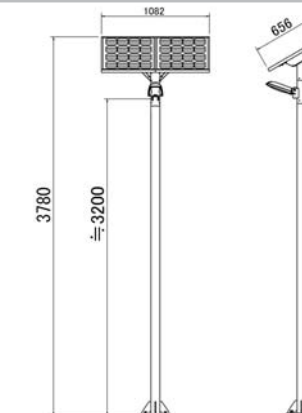
Specifications

- Solar Panel : 50Wp monocrystalline silicon
- Battery : L1N5 : 132wh
L1T5 : 264wh
- Light : (Cover) Acrylic resin
(Body) Cast aluminum
- LED : Power LED

Middle Capa Plus V2 One Light, Quattro Type

MDCP-L1Q5

The brightest of the standard lineup. Can shine for up to 14 hours with the brightness of a 20VA LED security.



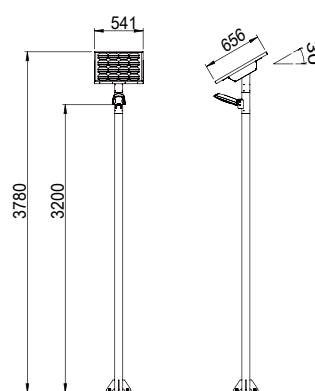
Specifications

- Solar Panel : 100Wp (50Wp×2)
monocrystalline silicon
- Battery : 528Wh
- Light : (Cover) Acrylic resin
(Body) Cast aluminum
- LED : Power LED
- Pole : Galvanized steel (Ø89.1)

Middle Capa Plus V2 One Light, One Pole

MDCP-L1N5
MDCP-L1T5

The basic model with one light attached to a pole. Due to its simple design, it features the smallest pole diameter and foundation size among the pole type models.



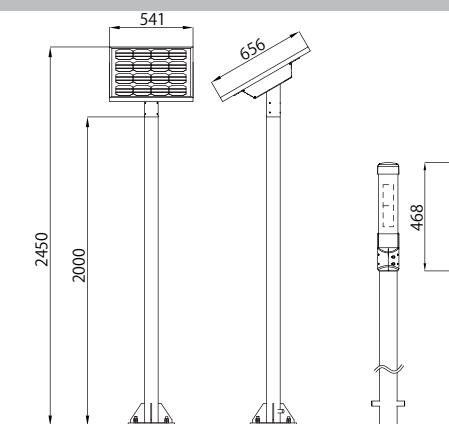
Specifications

- Solar Panel : 50Wp monocrystalline silicon
- Battery : L1N5 : 132wh
L1T5 : 264wh
- Light : (Cover) Acrylic resin
(Body) Cast aluminum
- LED : Power LED
- Pole : Galvanized steel (Ø89.1)
urethane resin coated

Middle Capa Plus Light-Panel Separated

MDCP-BS2T5

This model separates the solar panel from the light. Suitable for places with little sunlight, such as tsunami evacuation paths in the mountains. This can be installed many different ways, and can even be installed in places like handrails (see our homepage for details).



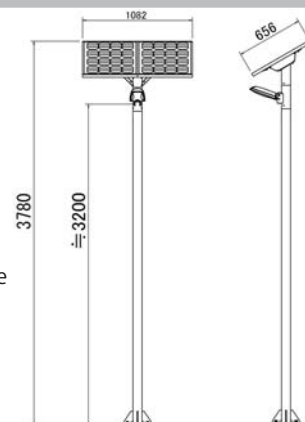
Specifications

- [Main Unit]**
- Solar Panel : 50Wp monocrystalline silicon
- Battery : L1T5 : 264wh
- [Sub Unit]**
- Light : (Cover) ABS
(Body) Polycarbonate
- LED : Power LED

Middle Capa Plus V2 One Light, Dual Solar Panel

MDCP-L1D5

Recommended for areas with low levels of sunlight. Maintains the functionality of the L1T5 while doubling the capacity of the solar panels.



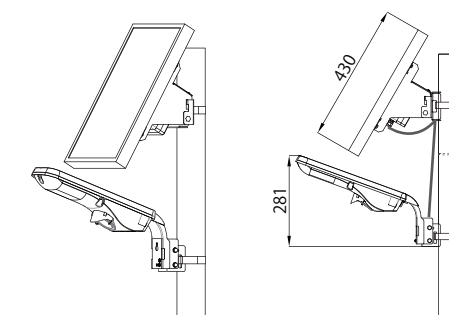
Specifications

- Solar Panel : 100Wp monocrystalline silicon
(50Wp×2)
- Battery : 264Wh
- Light : (Cover) Acrylic resin
(Body) Cast aluminum
- LED : Power LED
- Pole : Galvanized steel (Ø89.1)
urethane resin coated

Little Capa Motion Sensor Type

LTCN-M615

This model includes a motion sensor. Because the solar panel is small, it is ideal for places that only need to be lighted when people are nearby.



Specifications

- Solar Panel : 15Wp monocrystalline silicon
- Battery : 66wh
- Light : (Cover) Acrylic resin
(Body) ABS
(Frame) ZAM steel plate
- LED : Power LED

※-1 Please note that product specifications may change without notice.

※-2 Please consult us for our products' installation conditions.

※-3 Technical drawings and data can be downloaded from our homepage at the "Downloads" page.

※-4 Storage capacity varies for different batteries.

Customize We can customize your solar lights with the following features

Optional GPS for accurate on / off times, multiple small LED lights, custom lighting modes, custom LED colors (incandescent lights as well), install solar panel separately from light (for bettering sunlight exposure), custom pole length, custom pole material for salt damage countermeasures (aluminum, SUS), painted finished, etc.

Popular! Emergency Electrical Outlet Model



MDCP-L2W5 (Two lights, one pole)



"Separate Type" - Main Unit



"Separate Type" - Sub Unit

For rooftop evacuation (custom)



MDCP-L1T5 (One Light, One Pole)

MDCP-L1T5

