



TALOSTM

**Integrated
Solar
Urban Lighting**



Dajen MH Ltd

THE STYLISH LANTERN FOR URBAN SPACE

Harnessing the power of the sun, the all-in-one Talos solar urban light, with its stylish appearance and soft glow, creates a elegant and gentle air for all kinds of city activities, be it jogging, driving, shopping or socializing.

The luminaire boasts an impressive 200LPW high efficacy light output, the advanced solar technology ensures autonomy, freeing you from traditional power sources and slashing electricity bills.

Experience the perfect blend of aesthetics and functionality, enhancing both the ambiance and safety of any environment. Crafted with precision and durability in mind, our urban light stands as a beacon of quality, promising longevity and reliability. Make a statement with sustainable living and cutting-edge design – choose our all-in-one solar urban light to light up your world in style while contributing to a greener, brighter future.



Private sites



Building surrounds



Parks, promenades & pathways



Urban & residential streets



Car park



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KEY FEATURES



Premium-grade integrated all-in-one design, easy to install and maintain.



Environment friendly & electric bill free - 100% powered by the sun.



No trenching or cabling work needed.



Light on/off and dimming programmable smart lighting.



High luminous efficiency of 200lm/W to maximize battery performance.



IP66 Luminaire ensures long lasting and consistent high performance.



Five Years Warranty.



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RELIABILITY UNEXPECTED VALUE



Only top quality mono - crystalline silicon solar panels with high efficiency and long lifetime are used.



Quality lithium batteries are used to store the energy, provide energy for immediate requirements, and enable a back-up for days when there is little or no sun.



High Lumen LED for maximum efficacy. Dedicated designed low-voltage solar controller technology with dimming capabilities for power-save management.
Lifetime > 50,000 hrs and CRI nominal 70.



Microprocessor managed algorithms autonomously determine sunrise and sunset.



Easy to install without buying cables and rectifiers, directly on pole with an adjustable spigot 0°~90°.



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STAY POWERFUL THE DC CHARGE PORT

A DC charge port is offered as an option to be integrated into Talos, ensuring the battery remains charged even during extended periods in the warehouse. No more worrying about flat batteries when you need them the most. Embrace the continuous and dependable lighting with our state-of-the-art Talos solar Urban Lighting.



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PERFORMANCE

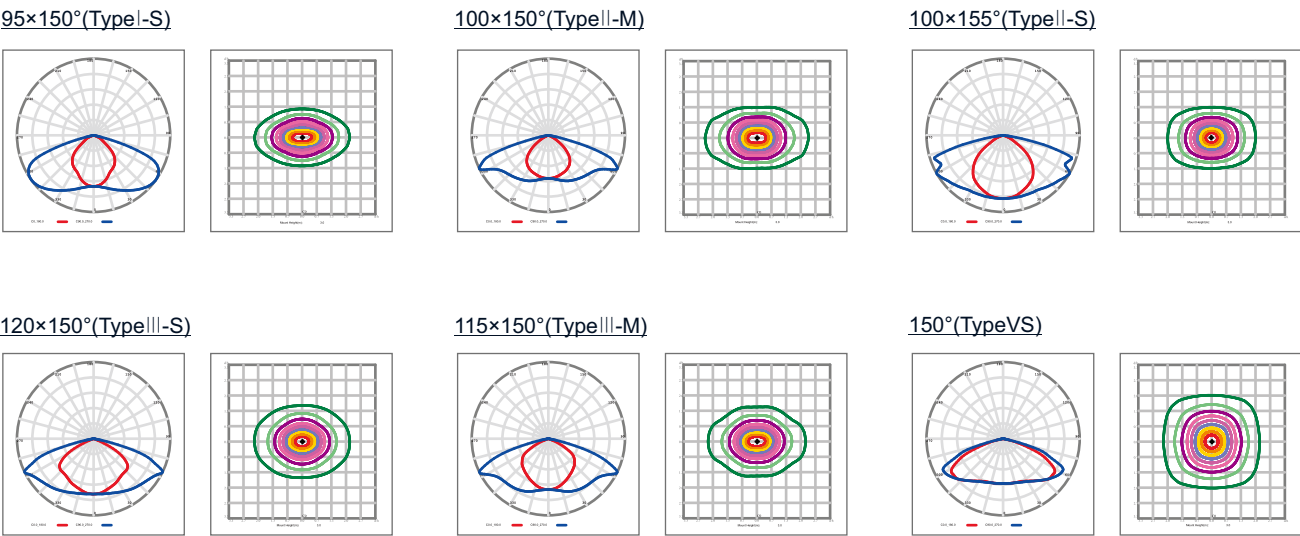
	40W
	200lm/W
	Philips Lumileds
	PIR & Microwave & Timer Dimming
	MPPT / PWM Controller
	5000K (2500~6500K optional)
	95×150° / 100×150° / 100×155° / 120×150° / 115×150° / 150°
	IP66
	IK08
	Monocrystalline silicon photovoltaic panels
	LiFeP04 battery
	Slip fitter
	Operating Temperature:-20°C to + 60°C /-4°F to 140°F (Charge:0°C to 60°C / 32°F to 140°F & Discharge:-20°C to 60°C / -4°F to 140°F) Storing Temperature:-20°C to +60°C/-4°F to 140°F



SPECIFICATIONS

Part#	Power	LED Efficacy	Solar Panel	Battery		N.W	Product Dimensions
				Standard	Premium		
DM-UBTA-40	40W	200 lm/W	70W/18V	12.8V/18AH	12.8V/24AH	19kg	905×520×275mm

PHOTOMETRICS

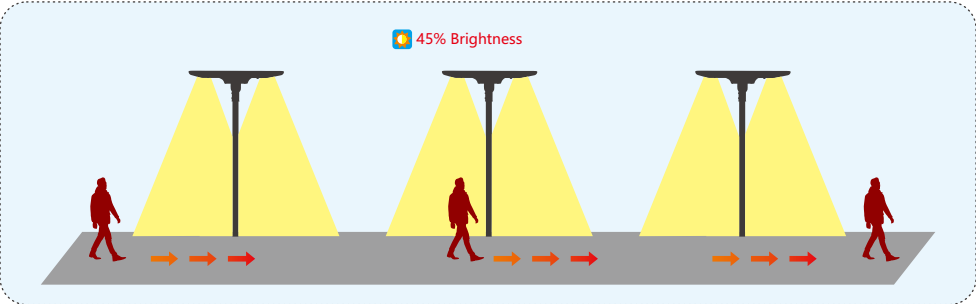


SOLAR CONTROLLER - A

1 »

Constant Lighting Mode

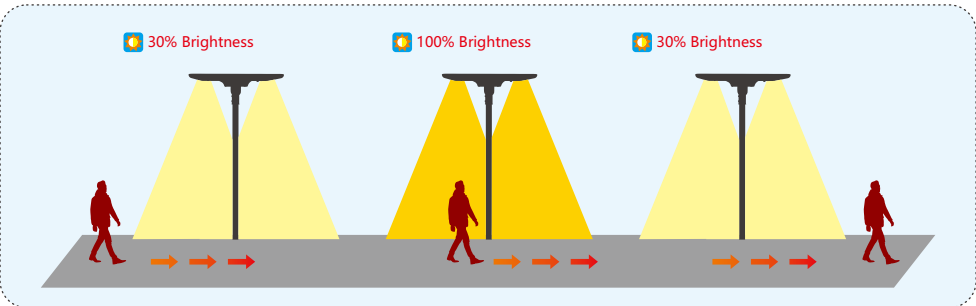
Light will automatically turn on at dusk and keep constant 45% brightness in a set power in the period.



2 »

Motion Sensor Mode

Automatically operates at 30% brightness. When motion is detected, light increases to 100% until no motion is detected for 30 seconds, then returns to 30% brightness.



3 »

T1 Working Mode

	2 hrs	3 hrs	4 hrs	3 hrs
Motion				
No Motion				

4 »

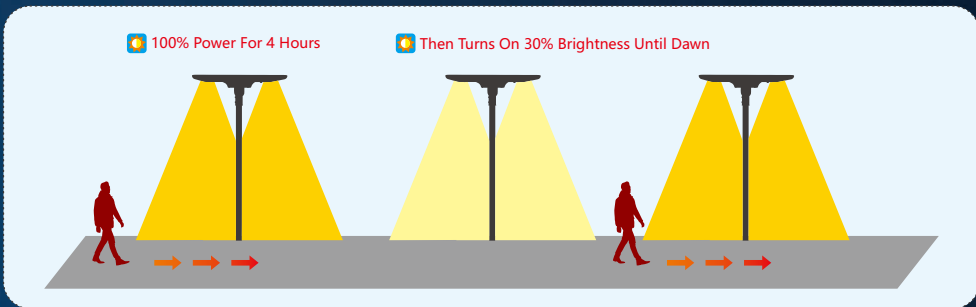
T2 Working Mode

	2 hrs	4 hrs	6 hrs
Motion			
No Motion			

5 »

Customized Working Mode

Automatically turns on at dusk and remains at up to 100% brightness for 4 hours, then it automatically turns to 30% brightness until dawn.





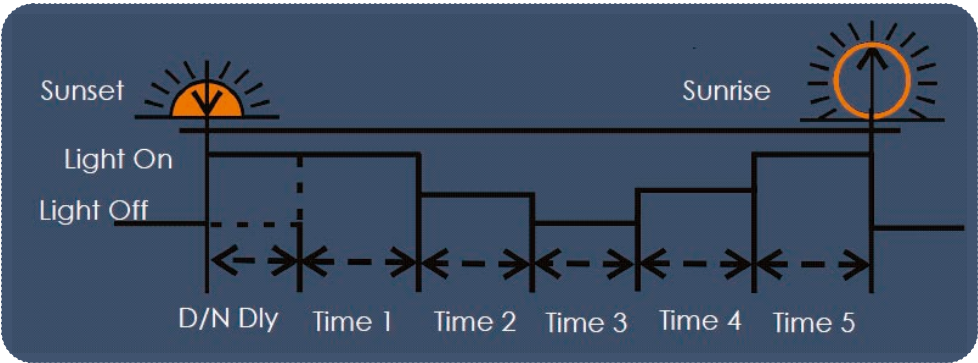
SOLAR CONTROLLER - B

Regular MPPT Controller



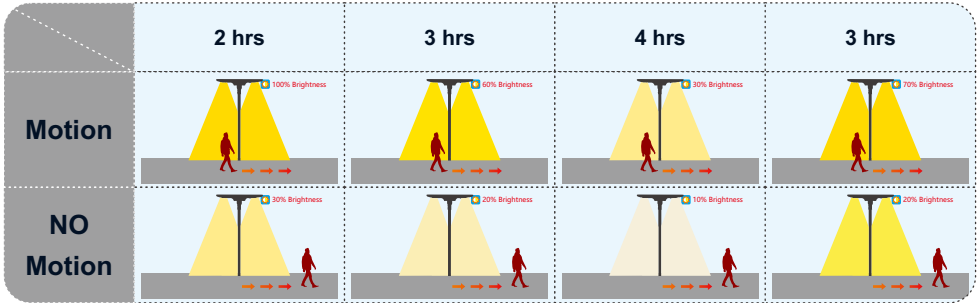
Five-Stage Mode

The lamps lighting divide into 5 stage, each stage time and dim can be setting according to demands. With diming setting, it is an efficient way to save energy, and keep the lamp working in best power and time.



Motion Sensor Mode

Motion: 2 hrs-100%; 3 hrs-60%; 4 hrs-30%; 3 hrs-70%;
Without Motion: 2 hrs-30%; 3 hrs-20%; 4 hrs-10%; 3 hrs-20%;



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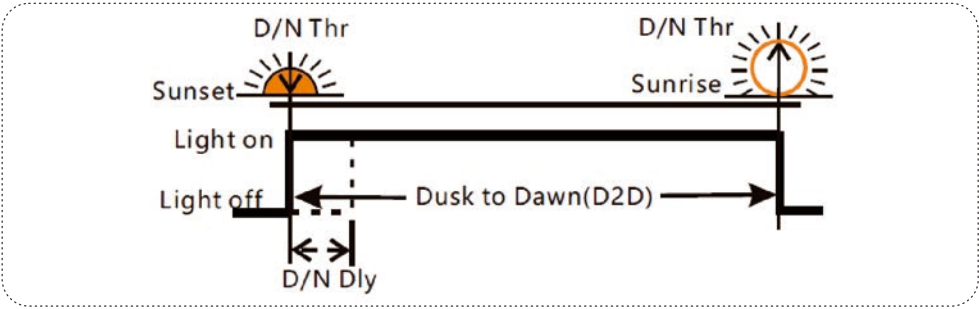
SOLAR CONTROLLER - C

Hybrid MPPT Controller



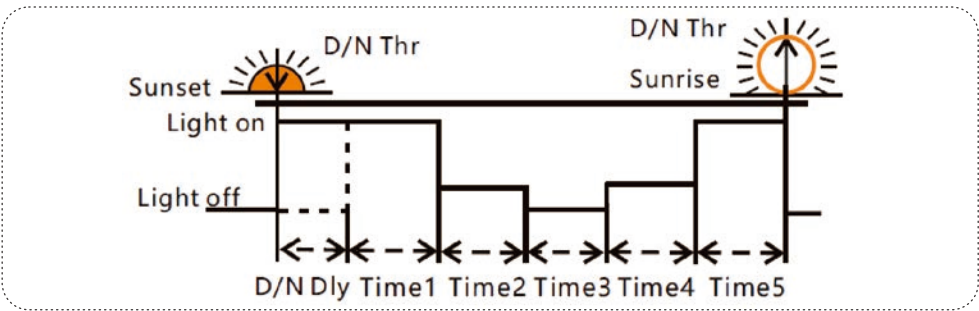
Dusk to Dawn (D2D)

When fixture is set to D2D, it works in dusk to dawn mode. The fixture will turn on while the sun is down, as determined by the solar panel voltage.



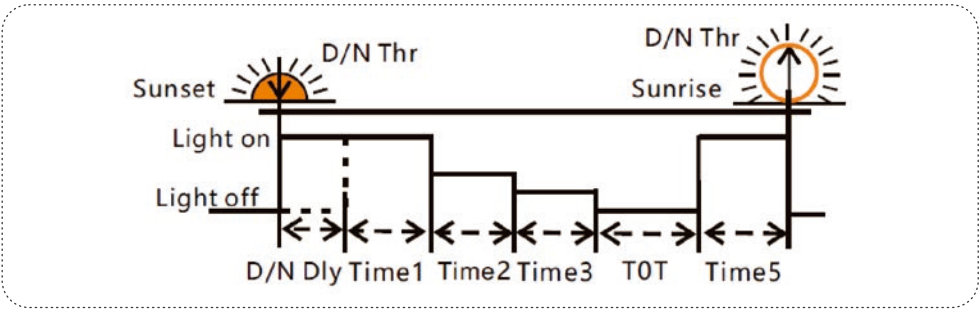
Five-stage Night Mode

The lamps lighting divide into 5 stage, each stage time and dim can be setting according to demands. With diming setting, it is an efficient way to save energy, and keep the lamp working in best power and time.



TOT Mode (Can set the load on time before morning coming.)

When fixture is set to TOT then it will determine Time4 based on Time5 and previous data on the time of sunrise.





INSTALLATION NOTES

1. Due to variations in longitude and latitude at the installation site, the angle at which the sun's rays illuminate differs. During installation, it is crucial for the solar panel to be oriented towards the sun precisely at 12:00 noon. However, often due to factors like road direction and light poles, achieving this alignment becomes challenging. The solar panel must still maintain a horizontal position even if it can't be ideally oriented towards the sun at noon due to road lighting requirements.

Several conditions can lead to suboptimal functioning of standard lamps. Prior to making a purchase, it's important to communicate these factors to the salesperson and consider increasing the solar panel's power capacity:

- a. Any deviation below the horizontal plane of the solar panel, relative to the solar irradiation angle, will result in a significant decline in the solar panel's power generation efficiency.
- b. When installing solar lamps and lanterns, it's essential to avoid any obstacles that might block sunlight, such as trees or buildings.
- c. Natural elements like rain, ice, snow, dust, clouds, and bird droppings can reduce the solar panel's power generation efficiency.

Ensuring that the solar panel remains unobstructed by barriers like trees and buildings, and accounting for factors such as the solar panel's angle and external elements, are vital for optimal performance.

2. Install lamps at a considerable distance from areas prone to strong electromagnetic interference, such as high-voltage cables and high-power wireless transmission towers. These sources could potentially disrupt the lamp control system, leading to malfunctions and improper operation.

3. When the temperature drops below 0°C, the efficiency of lithium iron phosphate batteries for charge and discharge decreases. To prevent damage and the battery protection triggered by over-discharge, it's advisable to explain this to the sales

staff and consider increasing battery capacity before making a purchase.

4. Any environmental impact can result in a decline in the efficiency of solar panel power generation. Repeated discharge of the lithium iron phosphate battery might easily activate the protection mechanism, causing the lamps to stop functioning normally. Most lithium batteries can be restored to operation by disconnecting and reconnecting the battery-light source connection and the solar panel connection.

5. Once the battery protection has been deactivated and reactivated, our focus should be on identifying and resolving any natural environmental factors that compromise the efficiency of solar panel power generation, as well as minimizing the power consumption of the light source.

6. Install the lamps on days abundant with sunshine. The lamps are initially set to 30% power upon leaving the factory. Prior to installation and usage, ensure that the lamps can receive effective sunlight charging for at least 4 hours after activation. Failure to do so may trigger battery startup stress protection due to excessive discharge, leading to abnormal lamp operation.

7. The self-discharge and stress protection features of the lithium iron phosphate battery necessitate that if the lamp remains unused and uninstalled for a period of 60 to 90 days from the factory departure, it must undergo a 4-hour effective sun charging upon activation.

Instances where lamp functionality is compromised due to the aforementioned circumstances are not included in the warranty coverage. However, we are committed to assisting customers in identifying and analyzing the underlying causes, and devising plans for enhancements. It's important to note that lamps unable to activate after battery protection will not be covered by the warranty.



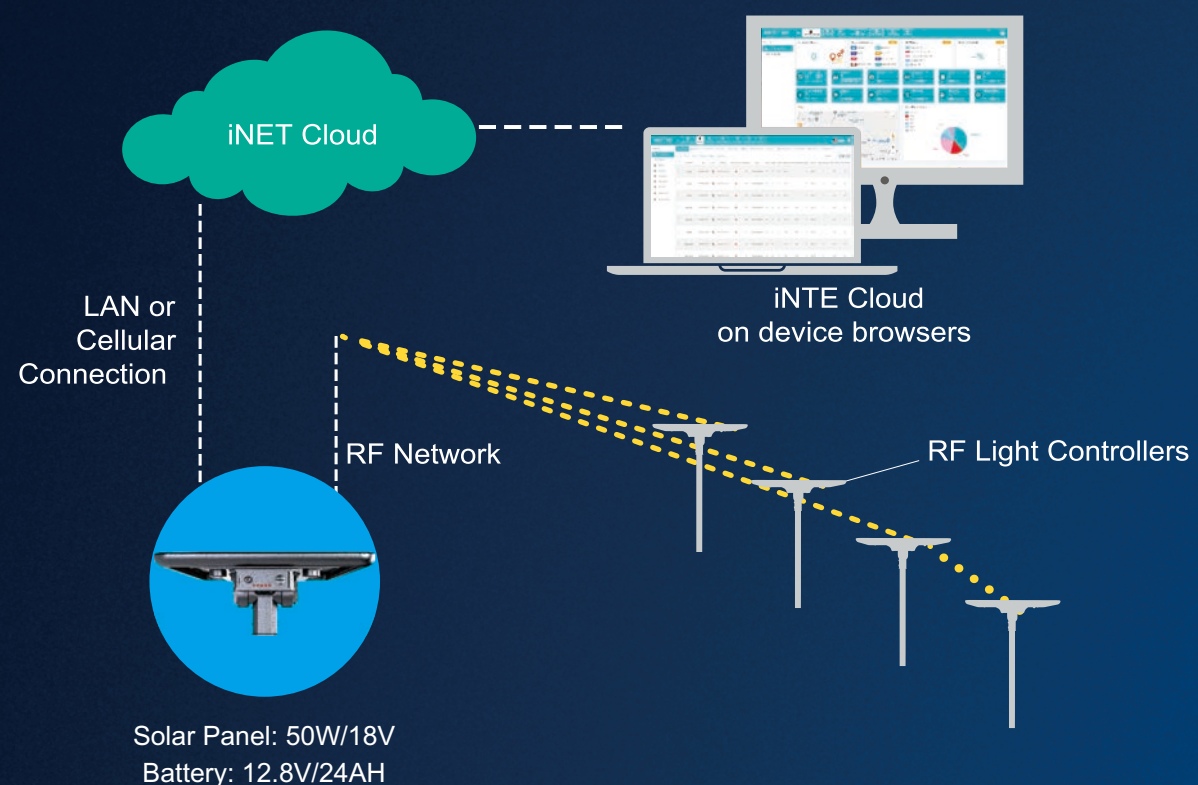
iNET SMART CONTROL SYSTEM



Smart City

Smart controlling perfectly combines the solar street lighting fixture, internet of things with wireless communication technology, achieve monitoring and management of remote background data, real-time understand the normal working status of each component of solar energy (street lights, photovoltaic panels, batteries, controllers), allow you to know the product usage on the client terminal that is thousands of miles away without leaving home or to manage the opening and closing of street lights and the adjustment of bright spot power on me.

- The solar street light management system can pre-set one or more lighting modes according to the different time of day and traffic flow, automatically turn on or off any light, and adjust the switching time and illumination according to environmental requirements to achieve the purpose of energy-saving and consumption reducing.
- The integrated system is mainly composed of a street light component a centralized controller, a single light controller, and a smart cloud platform. The centralized controller and the single light controller aggregate the data collected by the single light via the RF wireless communication network. The centralized controller uploads data to the system cloud planform through GPRS data flow, providing data dependence for mobile phone and computer terminal access.



System & Hardwares



Automatic Light On/Off & Dimming Control

- By time setting
- On/off or dimming with motion sensor detection
- On/off or dimming with photocell detection



Accurate Operation & Fault Monitor

- Real-time monitor on each light working status
- Accurate report on fault detected
- Provide location of fault, no patrol required
- Collect each light operation data, such as voltage, current, power consumption



Extra I/O Ports for Sensor Expandability

- Environment Monitor
- Traffic Monitor
- Security Surveillance
- Seismic Activities Monitor



Reliable Mesh Network

- Self proprietary wireless control node
- Reliable node to node, gateway to node communication
- Up to 1000 nodes per network
- Max. network diameter 2000m



Easy-to-use Platform

- Easy monitor on each and all lights status
- Support lighting policy remote set-up
- Cloud server accessible from computer or hand held device



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ORDERING INFORMATION

