



Strata2 HIGHPOWER All In One

Solar LED Street Light

Aesthetically pleasing integrated solar street light system with is compact & ULTRA modern. All components are integrated into a compact neat slimline design utilizing the latest in technology with

High Lumen branded LED Package

(Philips or Bridgelux) 5050 SMDs, MPPT controller, Mono Crystalline Solar cells and LIFEPO Lithium battery technology with over 2000 charging cycles

IES Files and lighting simulations available on request

FAR SUPERIOR EFFICIENCY DESIGN WITH 25.6V LIFEPO4 BATTERY AND 39V SOLAR PANEL



Battery design

Simple external battery replacement
Single or double battery configuration

Housing Design

Ergonomically designed for wind resistance and ease of installation

Durability

Intelligent management system

Design

Latest component technology

Temperature

Resistant
-20 °C to +65 °C

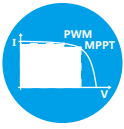
Warranty

5 Year warranty
3 Years on battery

LM-79 LM-80 TM21 **IP66 IP68**

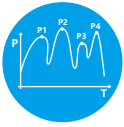


Advantages of the Strata2 Series



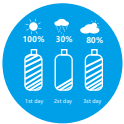
MPPT Technology

MPPT is an advanced charge mode whose full name is Maximum Power Point Tracking function which can increase the energy utilization rate by 15% to 20% than the PWM controller.



Multi-Peak MPPT

Strata series solar controller adopts multi-peak MPPT technology, which can timely track the maximum power point and improve the conversion efficiency of solar panels.



Smart 365 Technology

Intelligent solar controller technology (Intelligent power control).

It will intelligently detect recent weather conditions, reasonably plan the discharge power to achieve more rainy days.



Battery (Intelligent Charge and Discharge)

Using Grade A LiFePO4 battery cells with excellent safety performance.

Stratas unique current equalization and dual protection (software and hardware) enable the battery's capacity remains at 80% after 2000 cycles.

Lifetime is 4 times longer than that of lead-acid batteries technology.

Housing design



Choice of housing colours in Grey, White, Black or silver & Black

EASY INSTALLATION

5 Minutes to install

Simple battery replacement

Quick access for ease of maintenance

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Strata2

**Bridgelux /
Lumileds
5050 LED
Chips**



**190
LUMENS
PER WATT**

BATWING LENS LIGHT
DISTRIBUTION CURVE

Light distribution with greater
than 93% uniformity

LED LIGHTING

**Bridgelux / Lumileds
HIGH Lumen LEDs
190 LM/W**

Combined with an integrated LED PCB with high transmittance PMMA Optical lens for optimal heat dissipation with an Aluminum body to ensure maximum heat dissipation.

Batwing lens for a perfect illumination and uniformity

MOTION SENSOR MICROWAVE SENSOR

The Strata2 Series will automatically switches ON at dusk and switches OFF at dawn. During the evening the standard lighting profile will be 35% permanent lighting, when motion is detected the brightness of the luminaire will increase to 100% for a present time of 30 to 60 seconds and once the sensor detects no further movement it will revert back to 35%

Lighting profiles optional over a 12 hour period - to be discussed and preset in factory before shipping.

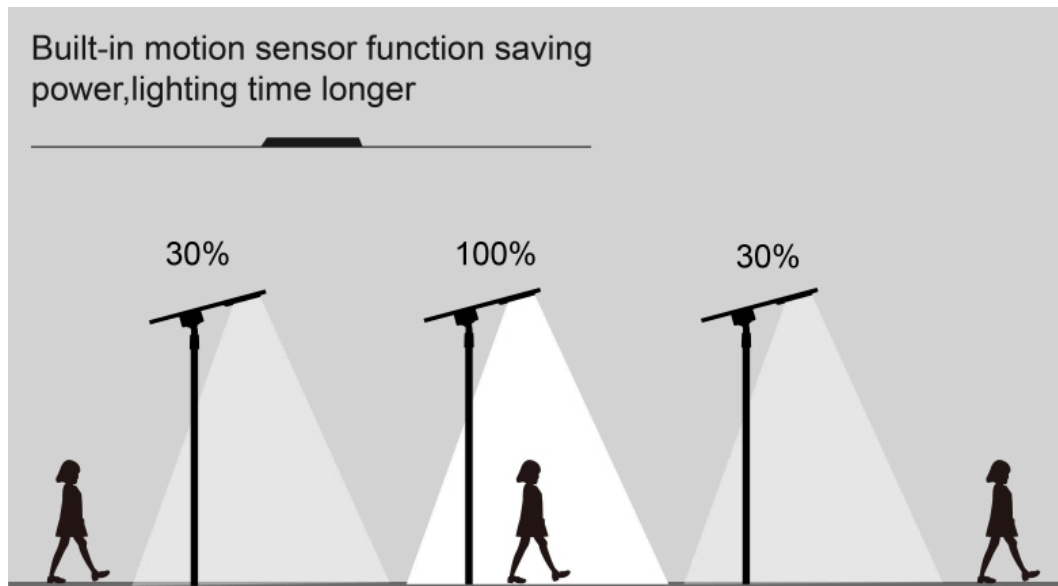
Or without a motion sensor and run on time control programming

6PM too 11PM 90% Power on rated lumen output

11PM too 4AM 35% Power on rated lumen output

4AM to 6AM 45% power of rated Lumen output

This mode will give you more light over a night cycle compared to the lighting profiles on the sensor models



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STRATA2MODELS

TECHNICAL SPECIFICATIONS



**60W
MODULES x 3**
**5050SMD PCB
Boards
with LENS**

80 WATTS 14000 LUMENS SSLASOLSTRATA280	100 WATTS 17500 LUMENS SSLASOLSTRATA2100	120 WATTS 21000 LUMENS SSLASOLSTRATA2120	150 WATTS 26250 LUMENS SSLASOLSTRATA2150
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190 LUMENS / WATT

Bridgleux / Lumileds

OVER 60000 HOURS LM80

70 x 155 / type 11 / type 111-M

8-9 METERS

9-10 METERS

9-10 METERS

10-12 METERS

LITHIUM IRON PHOSPHATE **LIFEPO4** INCLUDING BATTERY MANAGEMENT SYSTEM BMS

26 - 30 AH 25.6 VOLTS

30 - 32 AH 25.6 VOLTS

32 - 36AH 25.6 VOLTS

42-48 AH 25.6 VOLTS

OVER **20 HOURS** AT FULL CHARGE - 3 days reserve in SMART MODE

6-7 HOURS

OVER 2000 CYCLES - 8 TO 10 YEARS LIFETIME

EN 61427 MSDS

120 WATTS / 36V

120 WATTS / 36V

165 WATTS / 36V

180 WATTS / 36V

MONOCRYSTALLINE PANEL **GRADE A 25 YEARS**

IEC 61215 ; IEC 61730 I AND II ; IEC 60904

MPPT SMART CONTROLLER

MICROWAVE MOTION SENSOR

WATERPROOF CONNECTOR, PLUG AND PLAY

EN 55015 ; EN 61000

Housing	1388*543*81	1868*543*81	1868*543*81	2008*543*81
S Panel	1350*505	1830*505	1830*505	1970*505
Weight	28KG	32KG	32KG	35KG

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Multiple Light Distribution Optics

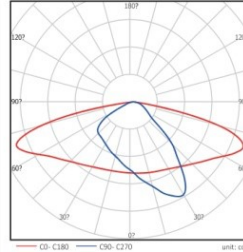
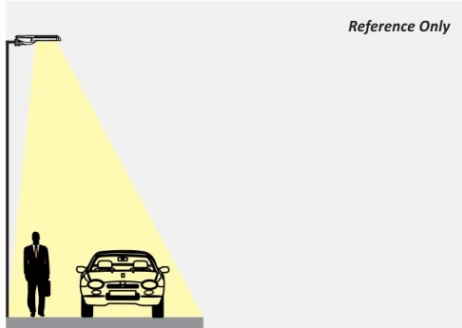
Strata2 Solar LED Street Light

Wide range of Lighting applications: Parks, Estates, Walkways, Roadways and Parking areas.

IESNA standards in providing different Lens optics, Type 1, Type 11, Type 111

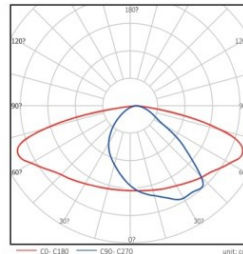
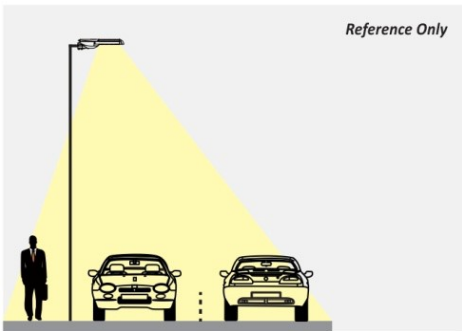
1 Lane, 2 lanes or 3 lanes and other wider lighting variations available

We will assist with a lighting simulation that best suits your requirements.



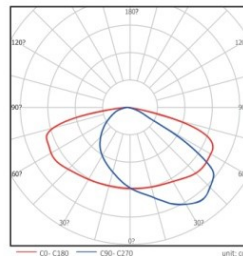
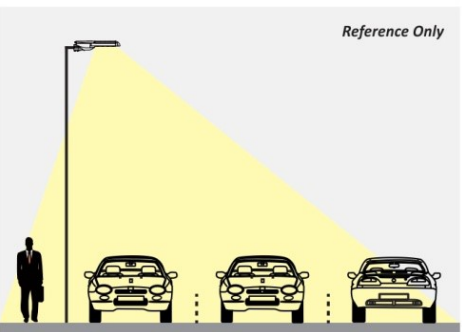
TYPE I

The Type I lens have beam angle of 70*140 degrees. In the IESNA Standard, The Type I distribution is great for lighting walkways, paths and sidewalks. It is generally applicable to where the mounting height is approximately equal to the roadway width.



TYPE II

The Type II lens have beam angle of 90 degrees. In the IESNA Standard, the Type II distribution is used for wide walkways, on ramps and entrance roadways, as well as other long, narrow lighting. It is generally applicable to where the width of the roadway does not exceed 1.75 times the designed mounting height.



TYPE III

The Type III lens have beam angle of 140 degrees. In the IESNA Standard, the Type III distribution is meant for roadway lighting, general parking areas and other areas where a larger area of lighting is required.

This distribution is intended for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.