

STRATA2ST HIGHPOWER All In One Solar LED Street Light 160-200w - 28800 - 36000 Lumens

Aesthetically pleasing integrated solar street light system which 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

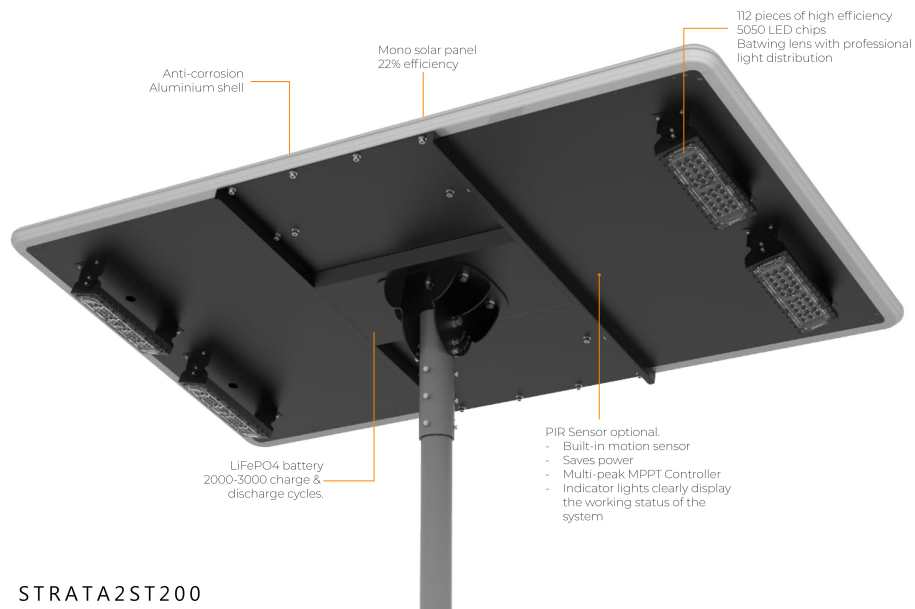
(LUMILED) 5050 SMDs with a 210lumen per watt led package, MPPT controller, Mono Crystalline Solar cells and LIFEPO4 Lithium battery technology with over 2000-3000 charging & discharging cycles

This range is driven around 180 lumen's per watt for longevity and heat management of the LED PCBs
If a motion sensor is used on the design we can drive this range up too a 200w - 36000 lumens on a sensor based design with a custom lighting profile over a 13 hour period. Wifi & wireless remote programming and monitoring IES Files and lighting simulations available on request

FAR SUPERIOR EFFICIENCY DESIGN WITH 25.6V LIFEPO4 BATTERY AND 45V SOLAR PANEL

In addition to increased LUMEN output, 24 volt battery systems are also more efficient at converting sunlight into electricity compared to 12v battery solar systems

A higher voltage system is more efficient than a lower voltage since it experiences less energy loss from resistance given the same amount of power draw



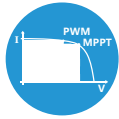
STRATA2ST200

Battery design
Simple external battery replacement Single battery configuration with IP68 Connectors

Housing Design
Ergonomically designed for wind resistance up 180Km/Hour and ease of installation

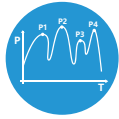
Durability	Design	Temperature	Warranty
Intelligent management system	Latest component technology	Resistant -20 °C to +65 °C	5 Year warranty 3 Years on battery

Advantages of the STRATA2ST Series



MPPT Technology

MPPT is an advanced charge mode whose full name is Maximum Power Point Tracking functionality which can increase the energy utilization rate by 15% to 20% more than a 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 controls the discharge power to the batteries to achieve longer operation cycles.



Battery (Intelligent Charge and Discharge)

Using Grade A LiFePO4 battery cells with excellent safety and performance. STARAT2 series unique current equalization and dual protection (software and hardware) enables the battery's capacity to remain at 80% after 2000 cycles. Cycle life is 4 times longer than that of lead-acid batteries.

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

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



STRATA2ST MODELS

5050 LED Chips
Higher lumens
per watt

180
LUMENS
PER WATT / DRIVEN

Optional LENSES
available

Light distribution with greater
than 93% uniformity

LED LIGHTING
Lumileds
HIGH Lumen LEDS
180 LM/W

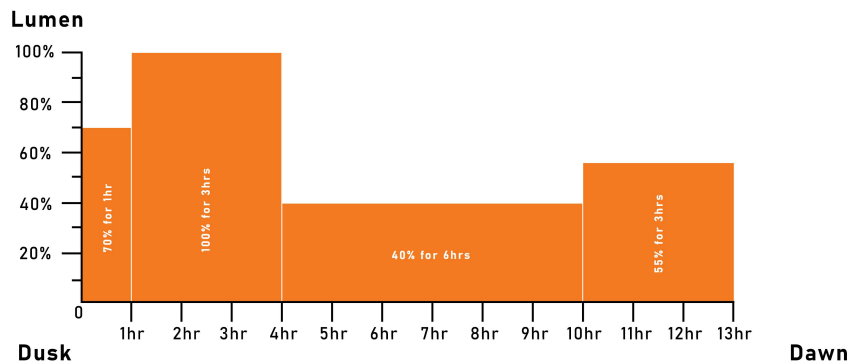
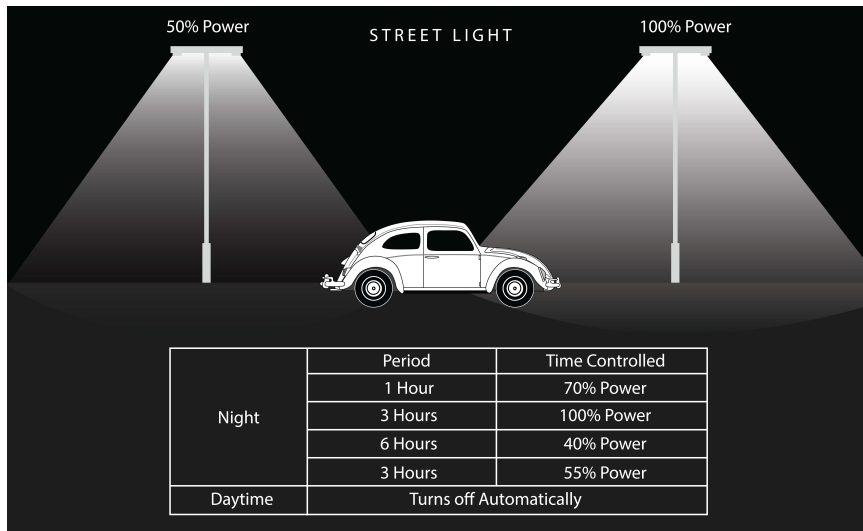
Combined with an integrated LED PCB with high transmittance PMMA Optical lens for optimal heat dissipation with an Aluminum body to ensure maximum heat dissipation Batwing design with SMART PMMA lenses for superb illumination and uniformity

TIME CONTROL WITHOUT MOTION SENSOR

This mode will give you more light over a night cycle compared to the lighting profiles on the sensor models. Motion sensing models have limitations in terms of the sensor reading / activation distances which are limited to 8-9m of height to perform properly .

Time control design with no motion sensor is the perfect solution.

Lighting profile - PRESET as standard



STRATA2ST MODELS

TECHNICAL SPECIFICATIONS

180 LUMENS / WATT

5050 LED Chips

Optics: Type 11 / Type 111-M

**4 x 60W
LED MODULES**

**5050 SMD PCB
Boards
with
SMART OPTICS**

**Time control models
Models listed below with
preset lighting profile**

160 WATTS

28800 LUMENS

SFSOLSTRATA2FLHM160TC

200 WATTS

36000 LUMENS

SFSOLSTRATA2FLHM200TC

100000 Hours LED life cycle
Optics: 30/60 or 90 Degrees

RECOMMENDED POLE HEIGHT

10-12 METERS

10-14 METERS

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

72AH -1843WH 25.6V

OVER **20 HOURS** AT FULL CHARGE - 3 NIGHTS IN SMART MODE
CHARGING TIME 6-7 HOURS

OVER 2000 CYCLES - 8 TO 10 YEARS LIFETIME

CERTIFICATION - IEC60598-2-1, 60598-2-3 ; IEC62133

MONOCRYSTALINE PANEL **GRADE A 25 YEARS**

330 WATTS / 45V

IEC 61215 ; IEC 61730 I ; IEC 60904

MPPT SMART CONTROLLER - IP68

ELECTRICAL PARAMETERS

Charging & discharging protection, over voltage protection

Reverse polarity protection

Charging efficiency up too 98%

IP68 Waterproof connectors

Smart 365 technology ensuring 365 continuous operation

Lighting Profile - TIME CONTROL - 1 hrs 70% , 3hrs 100%, 6hrs 40%, 3hrs 55%

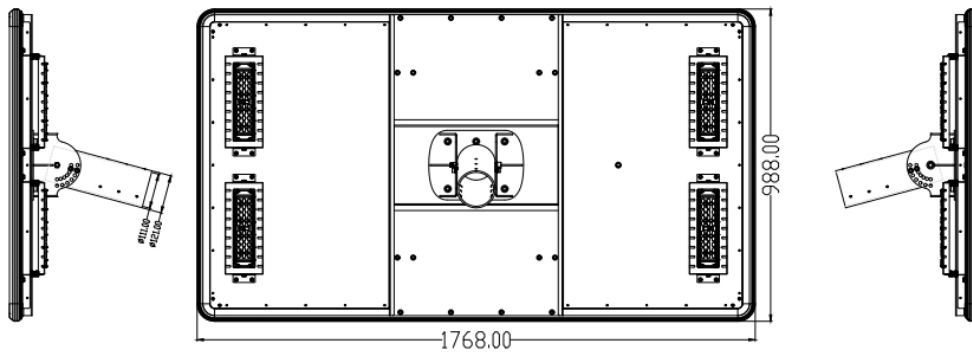
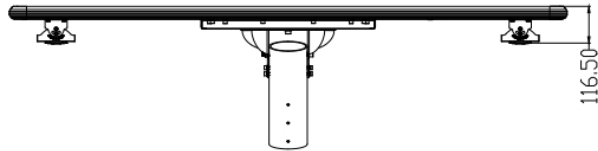
IEC61347-2-11; IEC62509

ALUMINIUM FRAME & E COATED
MOUNTING COLLARS 89 / 101MM

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



160 and 200w Schematics
 Slip Rotatable Collar
 Vertical and Side entry
 89 - 101MM



160W
 Packing Dimensions
 1 solar light per box
 1895L X 1125W X 170H mm
 Weight 64.5kGS / Box
 Collar 440L X 335W X285H
 Weight 9.5Kg / Box

200W
 Packing Dimensions
 1 solar light per box
 1895L X 1125W X 170H mm
 Weight 64.5kGS / Box
 Collar 440L X 335W X285H
 Weight 9.5Kg / Box

Multiple Light Distribution Optics

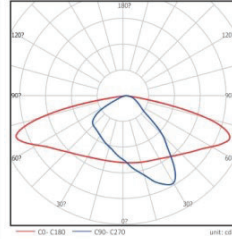
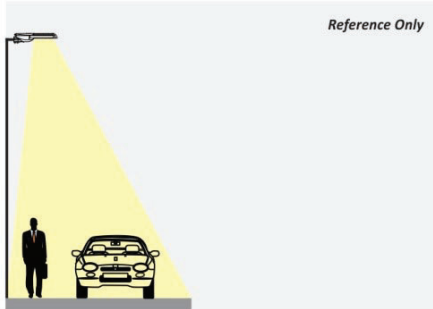
Strata2 Solar LED Street Light

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

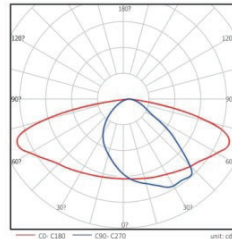
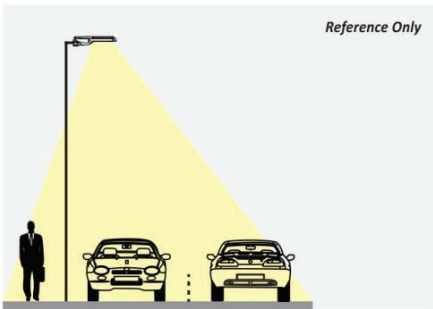
1 Lane, 2 lanes or 3 lanes and other wider lighting variations available

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



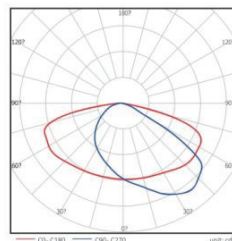
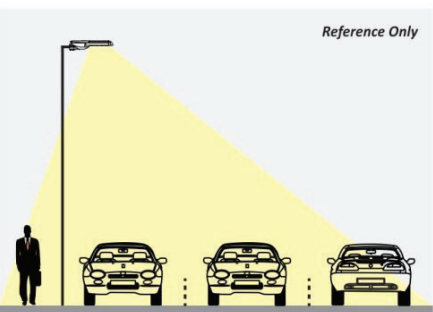
TYPE I

The Type I lens has beam angle of 70°x140 degrees. In the IESNA Standard, The Type 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 has a beam angle of 75°x155 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 Medium

The Type III lens has a beam angle of 155°x70 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.

RAL BODY COLOUR CODE



Colour options available on bulk order or projects