

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 LUMILEDS) 5050 SMDs with a 210lumen per watt led package, MPPT controller, Mono Crystalline Solar cells and LIFEPO Lithium battery technology with over 2000 charging cycles

This range is driven around 170 -180 lumens per watt for longevity and heat management of the LED PCB If a motion sensor is used on the design we can drive this range up too a 180w 32400 lumens on a

sensor based design with a custom profile over 12 hour period.

IES Files and lighting simulations available on request

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



Durability

Design

Temperature

Warranty

Intelligent management system Latest component technology

Resistant -20 °C to +65 °C

5 Year warranty3 Years on battery



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



Strata2

Philips LUMILEDS 5050 LED Chips

170-180 LUMENS PER WATT

BATWING LENS LIGHT DISTRIBUTION CURVE

Light distribution with greater than 93% uniformity

LED LIGHTING Lumileds HIGH Lumen LEDS 170 - 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 lens for superb illumination and uniformity

MOTION SENSOR TIME CONTROL + MICROWAVE SENSOR

The Strata2 Series automatically switches ON at dusk and switches OFF at dawn. During the evening the standard sensor models lighting profile will be as follows,

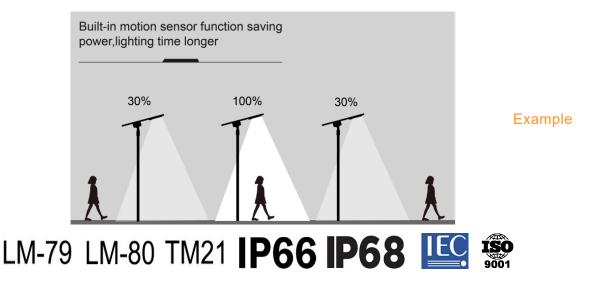
When motion is detected the brightness of the luminaire will increases to 100% for a present time of 30 to 60 seconds and once the sensor detects no further movement it will revert back to its determined profile over the 12 hour run cycle.

3hrs 100% full brightness dimming to 50% NEXT, 3hrs 70% brightness dimming to 40% NEXT, 6hrs 50% brightness dimming too 25%

TIME CONTROL WITHOUT MOTION SENSOR

3 Hours 100% Power on rated lumen output3 Hours 40% Power on rated lumen output6 % 25% 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. We can increase profile settings to achieve a much higher lumen package up too 27000 lumens on a motion sensing variation but not on the time control design unless we reduce the standard preset running time profiles during the 3 or 4 stages of dimming during the night



STRATA2 MODELS

TECHNICAL SPECIFICATIONS

			50W MODULES - UP too 4 modules
			5050 SMD PCB Boards with SMART OPTICS
			Time control models listed below
70 WATTS	80 WATTS	90 WATTS	100 WATTS
12600 LUMENS	14400 LUMENS	16200 LUMENS	18000 LUMENS
SSLASOLSTRATA280TC	SSLASOLSTRATA100TC	SSLASOLSTRATA120TC	SSLASOLSTRATA2150TC
	170-180 L	UMENS / WATT	
	Philip	os Lumileds	
		00 HOURS LM80	
	Optics: type	e 11 / type 111 M	
8-9 METERS	9-10 METERS	9-10 METERS	10-12 METERS
LITHIUM	IRON PHOSPHATE LIFEPO4 INC	LUDING BATTERY MANAGEMEN	IT 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
1	OVER 20 HOURS AT FULL CHAP	RGE - 3 days reserve in SMART N	IODE
	Chargin	g time 6-7 HOURS	
	OVER 2000 CYCLES	- 8 TO 10 YEARS LIFETIME	
	CERTIFICATION - IEC6	0598-2-1, UN38, EN 61427 MSDS	
120 WATTS / 36V	165 WATTS / 36V	165 WATTS / 36V	185 WATTS / 36V
	MONOCRYSTALINE	PANEL GRADE A 25 YEARS	
	IEC 61215 ; IEC 6 ⁴	1730 I AND II ; IEC 60904	
	MPPT SMART	CONTROLLER - IP68	
Li	ghting Profile - TIME CONTROL -		55%
		NECTOR, PLUG AND PLAY	
		15 · EN 61000	

EN 55015 ; EN 61000



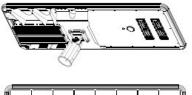
STRATA2 MODELS

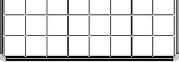
TECHNICAL SPECIFICATIONS

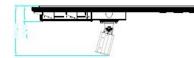
			Motion sensing model with MICROWAVE Motion sensor Lighting Profile 4hrs 100% dimming to 50% 3hrs 70% dimming to 40% 5hrs 50% dimming too 25% Sensor is activated for 30 seconds per activation		
80 WATTS	100 WATTS	120 WATTS	150 / 160 WATTS		
14400 LUMENS	18000 LUMENS	21600 LUMENS	25500/27000 LUMENS		
SFSOLSTRATA280M	SFSOLSTRATA100M	SFSOLSTRATA2120M	SFSOLSTRATA2150M / 160M		
		IENS / WATT			
	· · · · · · · · · · · · · · · · · · ·	s Lumileds			
		00 HOURS LM80			
8-9 METERS	9-10 METERS	11 / type 111 M 9-10 METERS	10-12 METERS		
LITHIUM IRON PHOSPHATE LIFEPO4 INCLUDING BATTERY MANAGEMENT SYSTEM BMS					
26 AH 25.6 VOLTS	30 AH 25.6 VOLTS	36AH 25.6 VOLTS	42-54 AH 25.6 VOLTS		
I	OVER 20 HOURS AT FULL CHAR	GE - 3 days reserve in SMART	MODE		
Charging time 6-7 HOURS					
	OVER 2000 CYCLES	- 8 TO 10 YEARS LIFETIME			
	CERTIFICATION - IEC60598	8-2-1, UN38, EN 61427 MSDS			
120 WATTS / 36V	165 WATTS / 36V	165 WATTS / 36V	185 / 200WATTS / 36V		
	MONOCRYSTALINE P	PANEL GRADE A 25 YEARS			
	IEC 61215 ; IEC 61	730 I AND II ; IEC 60904			
	MPPT SMART C	ONTROLLER, IP68			
MICROWAVE MOTION SENSOR					
	WATERPROOF CONN	NECTOR, PLUG AND PLAY			
EN 55015; EN 61000					



60 / 70 / 80w Schematics with SLIP Rotatable collar Vertical and side entry Spigot 76mm













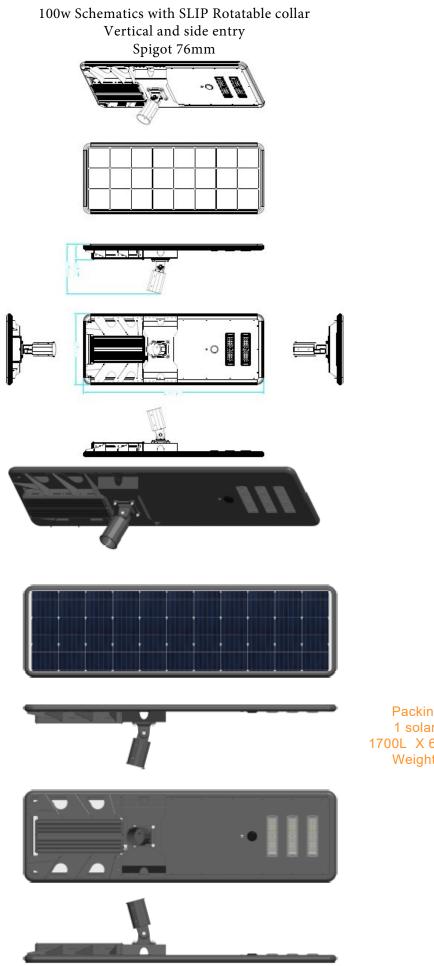


60W Packing Dimensions 1 solar light per box 1460L X 600W X 160H mm Weight 30kGS / Box



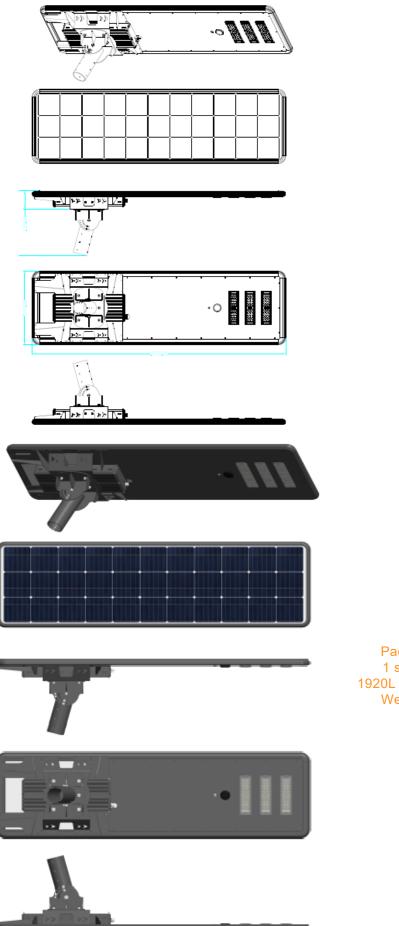


80W Packing Dimensions 1 solar light per box 1460L X 600W X 160H mm Weight 30kGS / Box



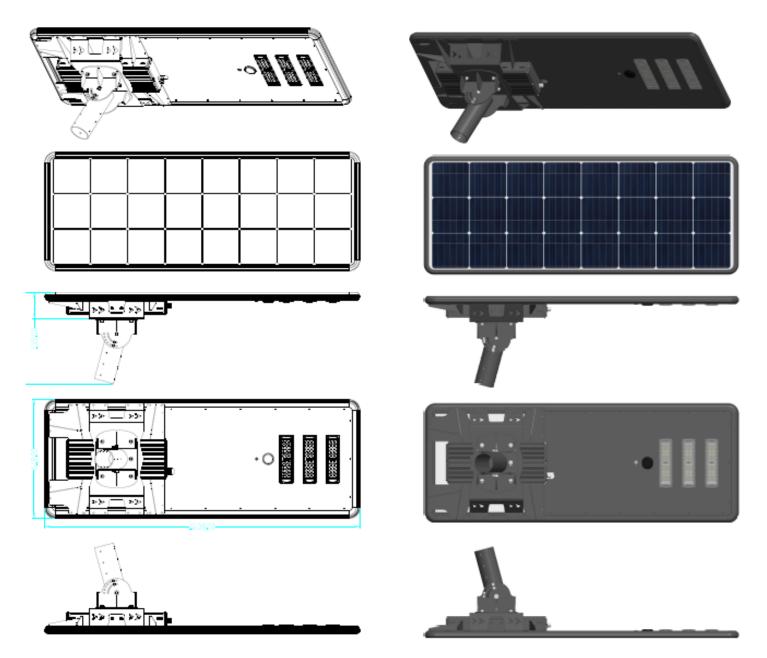
100W Packing Dimensions 1 solar light per box 1700L X 600W X 160H mm Weight 35kGS / Box

120w Schematics with SLIP REINFORCED Rotatable collar Vertical and side entry & Solid Adjustable Spigot option Spigot 76mm / 84mm



120W Packing Dimensions 1 solar light per box 1920L X 600W X 170H mm Weight 39kGS / Box

150w / 160w Schematics with SLIP Rotatable collar Vertical and side entry & Solid Adjustable Spigot option Spigot 76mm / 84mm



150W Packing Dimensions 1 solar light per box 1700L X 675W X 170H mm Weight 43kGS / Box

160w Also available with a 210w 39v Solar panel design

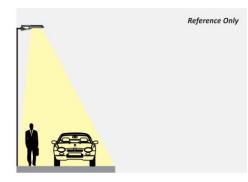
160W Packing Dimensions 1 solar light per box 1700L X 675W X 170H mm Weight 46kGS / Box

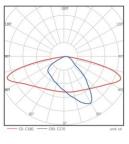
Multiple Light Distribution Optics

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

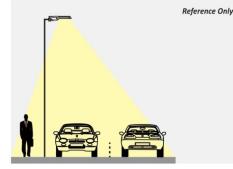
 Lane, 2 lanes or 3 lanes and other wider lighting variations available
 We will assist with a lighting simulation that best sits your requirements.

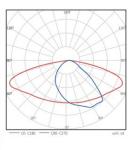




TYPE I

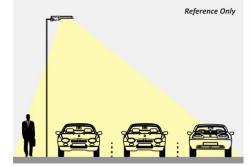
The Type I lens has beam angle of 70*140 degrees. In the IESNA Standard, The Type distribution is great for lighting walkways, paths and sidewalks. It is generally applicable to where the mounting height is approximately equal to the roadway width.

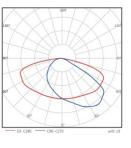




TYPE II

The Type II lens has a beam angle of 75*155 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*70 degrees. In the IESNA Standard, the Type III distribution is meant for roadway lighting, general parking areas and otherareas 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.

