

Profile + Feature

As the pioneer of all in two solar street lights on the market. Auroras has got a high reputation from clients over last years on quality and service. These 3 models are the popular models for commercial lighting because of its lighting performance and quality.

All in two solar led street light is an innovative structure of solar led street light developed since 2016. It adopts the concept of all in one solar led street lights in order to reduce the complication of installation but also maintain the stability and flexibility of regular solar-led street lights whose components are individual.

Additionally, an advanced wireless intelligent control system is available which makes the solar street lights could be monitored and settable online freely. The state of the solar light system could be recorded in the system and all states including the voltage of the battery, solar panel, and led light power is visible at the online control platform. Customers can modify the lighting power and its lighting programs easily as required. An automatic problem alarm is also available which reduces of step and cost of maintenance work a lot.



LED Source

It adopts ultra high brightness of Philips lumileds SMD5050 as light source. Each led chip can be drived to 5W max. With 64pcs of 5050 leds drived by low current, it achieve to more than 150lm per watt. Meanwell it output less heat which will extend the lifetime of LED chip greatly.

Lithium Battery Pack

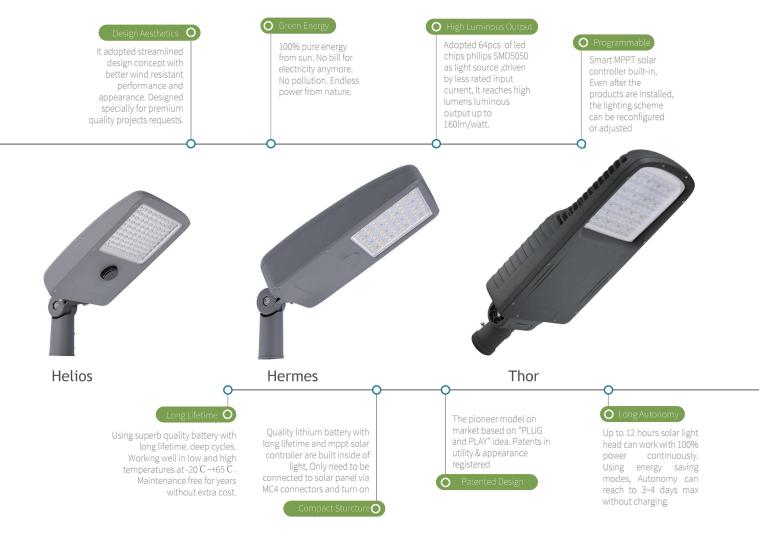
Supber long lifetime LifePO4 battery are adopted for all model of solar street light. Produced with high requirements of management and production by ISO9001 certified factory, lifePO4 battery is able to provide continues and stable power to system for many years without maintainence

Charge Controller

As the CPU of solar led light, high efficiency MPPT solar charge controller are adopted for all lights, With high quality and high efficiency solar charge controller, it can guarantee sufficient power can be generated with limited solar radiation condition.

MC4 Connection

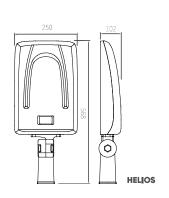
Solar light head is to be connected to solar panel with MC4 connectors, it make the installation simple and durable. Seperated solar panel can be freely adjusted as needed. Customer can select a suitable power of solar panel depending on their local solar radiation at will.

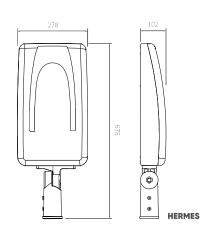


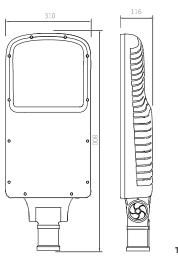
Specification

Item number	HELIOS-T3	HELIOS-T5	HERMES-T6	HERMES-T8	THOR-T10	THOR-T12	
Luminous Flux	4,800lm	6,800lm	8,800lm	12,800lm	14,800lm	16,800lm	
Rated Power	30W	50W	60W	80W	100W	120W	
CRI	>79						
LED Type	Lumileds SMD3030 72pcs		Lumileds SMD5050 64pcs		Lumileds SMD5050 64pcs		
CCT Range	3000K/4000K/5000K/6000K						
Beam Angle	Type I / II / III / III optics option	al from LEDil					
Battery Capacity	307WH 12.8V	460WH 12.8V	538WH 12.8V	768WH 25.6V	921WH 25.6V	1075WH 25.6V	
Battery Type	Brand new LifePO4 32700 6000mA 3.2V						
Battery Lifetime	D.O.D 50% 4000 cycles						
Charge Time	4 hours						
Discharge Time	>24 hours						
Advancded Control System	Hybrid type Solar + 220V backup / Zigbee 2G/4G Wireless Control						
Regular Solar Panel	80W 18V	100W 18V	120W 36V	160W 36V	200W 36V	260W 36V	
Vertical Solar Module	140W 18V	280W 36V	340W 36V	400W 36V	540W 36V	600W 36V	
Cable & Connector	2.5mm 0.6 meters with MC4 connectors						
Working Temp.	-20 °C ~ 75 °C						
Control Method	Automatic dusk to dawn / Time Control / Manual ON-OFF						
Default Lighting modes	6 hours 100% + 6 hours 50%, 12 hours operation						
Fixture Size	HELIOS: 568*250*102mm HERMES: 678*278*102mm				THOR:800*310*116mm		
Fixture materials	Aluminium Die Casting						
Fixture color	Gray RAL7005						
N.W/Light	9.60kg	10.60kg	14.30kg	15.40kg	13.50kg	1960kg	
G.W/Light	10.30kg	11.20kg	15.30kg	16.40kg	20.40kg	21.80kg	
IP Rate	IP67						
Warranty	3 years						
Certificates	CB CE ROHS IP67 LM79 LM8	0 FCC					

Fixture Drawing

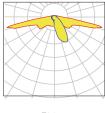




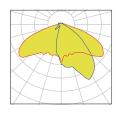


THOR

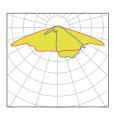
LED Optics Optional



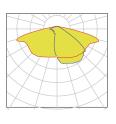




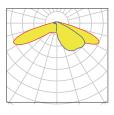
T2-S IESNA Type II (short)



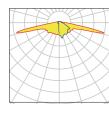
T3 IESNA Type III (medium)



T3B IESNA Type III (medium min backlight)



T3-M IESNA Type III (medium)



T3-L IESNA Type III (long)

MPPT Charge Controller











Model number	MES60 (for T3 &T5)	DM80 (for T6 & T8)	DM120 (for T10)	DM160 (for T12)
System voltage	12V	12V	24V	24V
Output current range	50~3000mA	50~5600mA	50mA~4200mA	50mA~5600mA
Max. power of regular solar panel	130W/18V	200W/18V	260W/36W	400W/36W
Max. power of vertical solar module	400W/18V	500W/18V	600W/18V	800W/18V
MPPT tracking efficiency	98%			
Load output voltage	<60V	<35V	<60V	<60V
Max load power	60W	80W	120W	160W
Overcharge voltage	14.6V	14.6V	29.2V	29.2V
Overcharge recovery voltage	13.5V	13.5V	27V	27V
Over-discharge voltage	11.0V	11.0V	22.0V	22.0V
Over-discharge recovery voltage	12.4V	12.4V	24.8V	24.8V
Light control voltage	7V			
Operating temperature	-35 °C ~ 65 °C			
Net weight	380g	400g	400g	510g
Dimension(mm)	80*82*22.6mm	114*88.3*24.5mm	114*88.3*24.5mm	155*114.4*34mm
IP rate	IP68			
Warranty	3 Years			

Quality LifePO4 Lithium Battery

Main Features

- Lithium Iron Phosphate (LiFePO4) Battery
- Safest lithium chemistry with high energy density
- Built-in automatic protections
- Efficient & long-lasting up to 4000+ cycles DOD 50%
- >2000 cycles @0.2C, Charge/Discharge at 100% DODInternal cell balancing
- Wide temperature range: -20 $\rm \widetilde{C} \sim 70~\widetilde{C}$
- Maintenance free after installation
- Cost effective



Battery Spec	12V-24AH	12V-36AH	12V-42AH	24V-36AH	24V-42AH	12V-24AH
Battery cell type	LifePO4 6000mA 3.2V 32700					
Nominal Capacity	12.8V 24AH (307WH)	12.8V 36AH (460WH)	12.8V 42AH (768WH)	25.6V 30AH (768WH)	25.6V 36AH (921WH)	25.6V 42AH (1075WH)
Quantity per pack	16 pieces	24 pieces	28 pieces	40 pieces	48 pieces	56 pieces
Array Mode	4P4S	6P4S	7P4S	5P8S	6P8S	7P8S
Dimension (L*W*H)	140*240*75mm	210*240*75mm	210*240*75mm	210*240*75mm	210*240*75mm	210*240*75mm
Charge mode	C.C + C.V					
Charge Cut-off voltage	14.6±0.05V	14.6±0.05V	29.2±0.05V	29.2±0.05V	29.2±0.05V	29.2±0.05V
Discharge Cut-off Voltage	11±0.05V	11±0.05V	22±0.05V	22±0.05V	22±0.05V	22±0.05V
Storage Temperature	+5 °C ~ +35 °C					
Operating Temperature	-25 °C ~ 65 °C					
Lifetime (D.OD. 50%)	4,000 cycles D.O.D 50%					
Warranty	3 Years					

Monocrystalline Solar Panel

Certifications

- IEC61215, IEC61730 •
- ISO9001:2015 Quality Management Systems •
- ISO45001 : Enbvironmental Management Systems •
- ISO45001:2018 Occupational Health and Safety Management System •



















Model number	MSD-080W	MSD-100W	MSD-120W	MSD-160W	MSD-240W	MSD-300W
Peak power / Pm(W)	18.0V	18.0V	18.0V	18.0V	36.0V	36.0V
Max. power voltage / Vmp(V)	6.67A	6.67A	6.67A	8.89A	6.67A	8.34A
Solar cells efficiency	22.3%	21.3%	21.3%	21.3%	21.3%	22.3%
Dimensions(L*W*T)	550*760*30mm	680*760*30mm	800*760*30mm	1040*760*30mm	1530*760*30mm	1290*1134*35mm

Grade of solar cells

0.9M solar cable + MC4 connectors

Operating temperature range -40 °C ~ 85 °C Power output warranty: IP65

10 years > 90%, 25 years > 80%

Product Certifications / Standards CE, ROHS ISO9001:2008, RoHSCE, IEC61215