



HUGESHINE SPLIT SOLAR STREET LIGHT SYSTEM Applicable to professional manufacturers of Solar lighting Series



Key advantages

- Designed and manufactured in China
- The Solar panels can be adjusted according to the sun's incident angle at the installation location to achieve maximum power generation efficiency.
- The IP66 box , in which electronic components and the energy source are housed , is situated in the shade behind the solar panel , preventing early degradation of components and extending of battery life
- Designed to operate daily with an output of 12 hours to incorporate appropriate dimming profiles according to your needs and application, with optional movement sensor where applicable
- It has sufficient autonomy to cater for up to three continuous overcast or rainy days , to continue its reliable night operation
- Theft and vandal resistant
- Long life lithium(LifePO4) energy storage technology , offering up to 8 years battery lifetime
- Circular economy 3-star rating
- Warranty up to 5 years (Terms and condition apply)



Characteristics

GENERAL INFORMATION	
Recommended installation height	4m to 10m
Components included	Solar module Battery enclosure Battery Charge controller Luminaire
Autonomy days	2-6 days
System operating voltage	12V DC
Geographical location	Designed and optimised for various locations
Weight (kg)	100 (excludes pole)
Remote monitoring	Optional
Wind speed rating	144km/h
Aerodynamic resistance (CxS)	1.18m² at 40° panel rake angle, including the side mounted battery box

MATERIAL	
Battery enclosure	Mild steel, e-coated (special automotive anti-corrosive marine grade dip process coating) and epoxy powder coated Linear low-density polyethylene (LLDPE)
Brackets and fixation clamps	Hot-dipped galvanised mild steel
Solar module fixation	Extruded aluminium
Solar module	Extruded aluminium Tempered glass
Pole	Hot-dipped galvanised mild steel

SOLAR MODULE	
Technology / Rated lifetime	Polycrystalline photovoltaic module: 25 years / 80%
Peak rated wattage	160-260W
Robustness	Hail and corrosion resistant

BATTERY	
Technology / Expected lifetime	Lead-based AGM: 4-6 years
	Lithium: 5-7 years
	SuperCapacitor: Up to 20 years
Weight per unit	Lead-based AGM: ±30kg
	Lithium: 8-20kg
	SuperCapacitor: 11kg
Maintenance free	Yes

CHARGE CONTROLLER	
Charge algorithm	Maximum Power Point Tracking (MPPT)
Rated lifetime	20 years
Integrated data logger	Yes: Up to 1 year
Integrated dawn/dusk switch	Yes

LUMINAIRE	
Housing and Finish	
Housing	HS mini: ADC 12 aluminum shell UV-stabilised PC optic lens
	HS maxi: ADC 12 aluminum shell UV-stabilised PC optic lens
	KANI: ADC 12 aluminum shell UV-stabilised PC optic lens
Housing finish	HS mini: RAL7016 , RAL 7035
	HS maxi: RAL7016 , RAL 7035
	KANI: RAL7016 , RAL 7035
Tightness level	HS mini: IP 66
	HS maxi: IP 66
	KANI: IP 66
Impact resistance	HS mini: IK 09
	HS maxi: IK 09
	KANI: IK 09

Optical information	
LED colour	All: 4000-6500K
CRI	All: ≥70
Upward light Output Ratio(ULOR)	HS mini: ≤1.5%
	HS midi: ≤1.5%
	KANI: ≤8%
Operating conditions Operating temperature range (Ta)	HS mini: ~20°C up to 65°C
	HS midi: ~20°C up to 65°C
	KANI: ~20°C up to 65°C
Lifetime of the LEDs @tq 25°C	
For all versions	HS mini: 50,000h-L70/B10
	HS midi: 50,000h-L70/B10
	KANI: 50,000h-L70/B10



OFF-GRID AREAS



URBAN & RESIDENTIAL
STREETS &
ROADS



CAR PARKS



SQUARES & PEDESTRIAN
AREAS



BIKE & PEDESTRIAN
PATHS



SECURITY LIGHTING



Key Features



Fully integrated solar system, including solar module, battery enclosure, luminaire and pole.



Robust and theft-resistant battery enclosure design. Easily accessible by means of a special key. Up to four days autonomy



Adjustable solar module inclination angle optimised for various geographical locations.



Highly efficient, performing and robust (IK10) LED street light luminaire (up to 80W - 155lm/W)



Highly efficient Polycrystalline solar module technology to maximise solar energy conversion