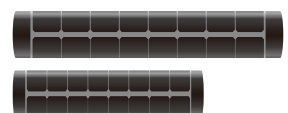
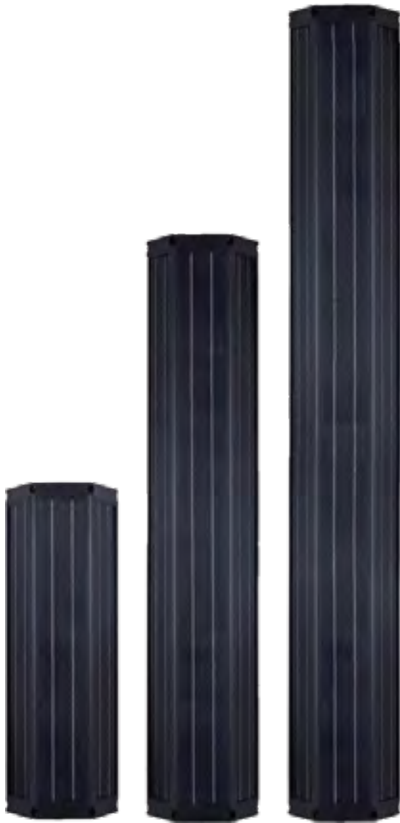


SOLAR POST

VARIOUS TYPES AVAILABLE



Hexagonal Series



Seamless vertical solar PV module integration.

Seamless vertical integration is a clean efficient method to integrate solar-photovoltaic technology into column-lighting systems. Using this method, large flat solar panels are not fixed on top of lighting column or system, but instead are placed around the lighting pole itself. Seamlessly integrating the technology aesthetically without compromising the efficiency, adding value to both designers and end users.

Vertical integration is more wind-resistant reducing wind-loads and minimising the need for more expensive pole foundations as well as providing a reduced maintenance burden with reduction of dirt build up on the photovoltaic surfaces requiring both less frequent and easier cleaning. The vertical wrap-around panels receive light more evenly and efficiently from the sun and sky during the course of daylight hours, even in darker climates and seasons.



Universal Application

Can be used on any type of aluminium or steel pole, easy to assemble and locked into place. Poles can be sourced separately if needed and the modular design with adjustable spacing brackets ensures easy assembly into any type of pole configuration.



360° Full Day Charging

6 slim solar sections are fixed tightly onto a hexagon frame which ensures 50% of solar panel will face to sunshine at any time of the day. No onsite orientation is needed.



Modular Installation

This hexagonal PV module is based on modular design concept for easy installation and disassembly. It can be quickly and easily mounted onto any suitable pole.



Patented Design

The hexagonal solar PV module is designed based on advanced concepts and manufactured to high standards PCT.



Strong Wind Resistance

The hexagonal design reduces the wind load area, and each module is directly fastened to the pole by 12 screws for better wind resistance. Ideal for very windy regions.



Anti Snow Covering

The hexagonal solar PV modules are mounted vertically. Preventing build up of snow and dirt. Ensuring enough power can be generated even in very snowy climates.



Easy to Clean

Less dust will fall on surface than on a regular solar panel. Maintenance workers can clean it easily standing on ground with an extending low-pressure hose brush or spray clean. Resulting in higher work efficiency and reduced maintenance cost.



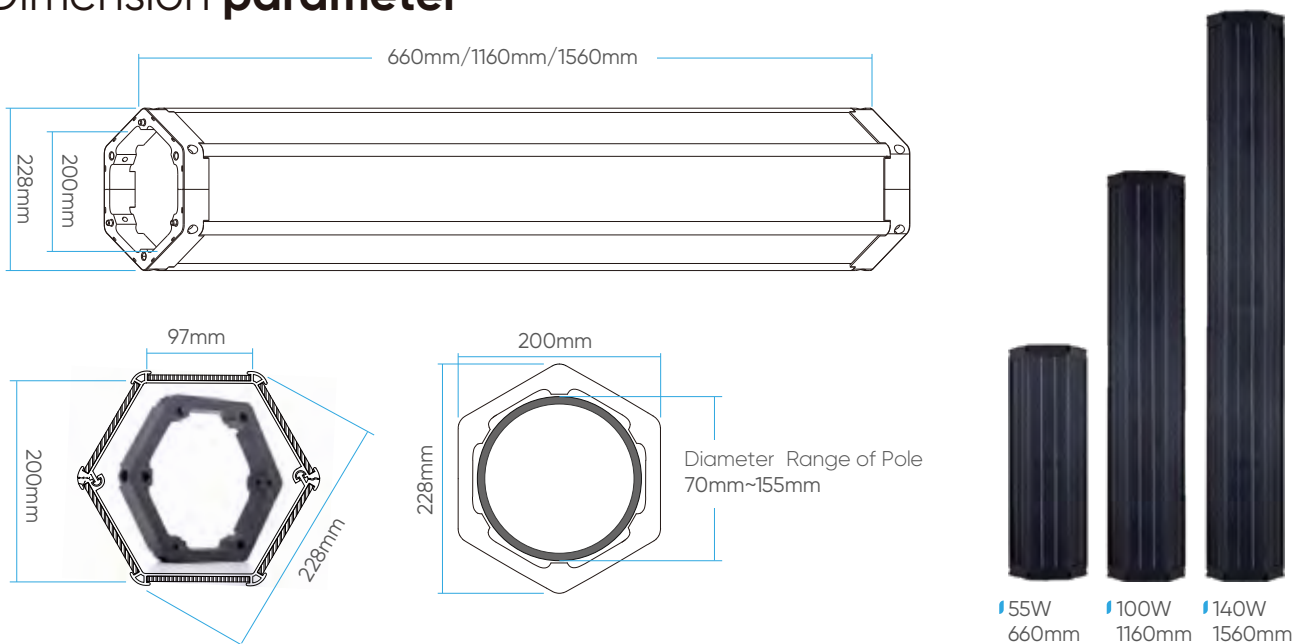
Design Aesthetics

The module system is the real answer to design aesthetics providing a compact and fully integrated green energy solution to the pole.

Technical parameter

Model	SMHS 55W	SMHS 100W	SMHS 140W
Solar Power	55W	100W	160W
Solar Cell	Mono-crystalline		
Cell Efficiency	22.5%		
Optimum Operating Volta	19.3V	26.0V	32.0V
Optimum Operating Curr	0.85A	1.71A	2.05A
Open-circuit Voltage	22.5V	28.5V	32.0V
Short-circuit Current	0.9A	1.8A	2.15A
Light Fixture Sizes	L228*W200*H660mm	L228*W200*H1160mm	L228*W200*H1560mm

Dimension parameter



Matching lamp holder



Compatible solar integrated lights from SunMaster

Built in lithium battery, BMS and smart controller



THOR
Smart solar street lamp
40W/60W/80W/100W



4G
Smart solar street lamp
40W/60W/80W/100W

Cylindrical Series

Superior Performance

The cells integrated in the SunMaster solar pole are the best performing solar cells available in the market. Due to low temperature coefficients ($-0.30\% \text{ Power } ^\circ \text{C}$, similar to thin film) and the high efficiency of the cells, our cells generate more energy at higher temperatures compared to standard c-Si solar cells. Furthermore, the solar cells used for the SunMaster solar pole conserve their initial power. Other types of cells lose 3% of power once exposed to sunlight. This innovative technology prevents light-induced degradation like conventional c-Si cells.



High Power Output

- High quality monocrystalline photovoltaic modules, which deliver exceptional performance and yield.
- Suitable for street light, monitoring and other outdoor electrical equipment power supply.
- Cells matched for electrical uniformity produce high power output and reliability.
- Easy to install, suitable for all extreme environments.

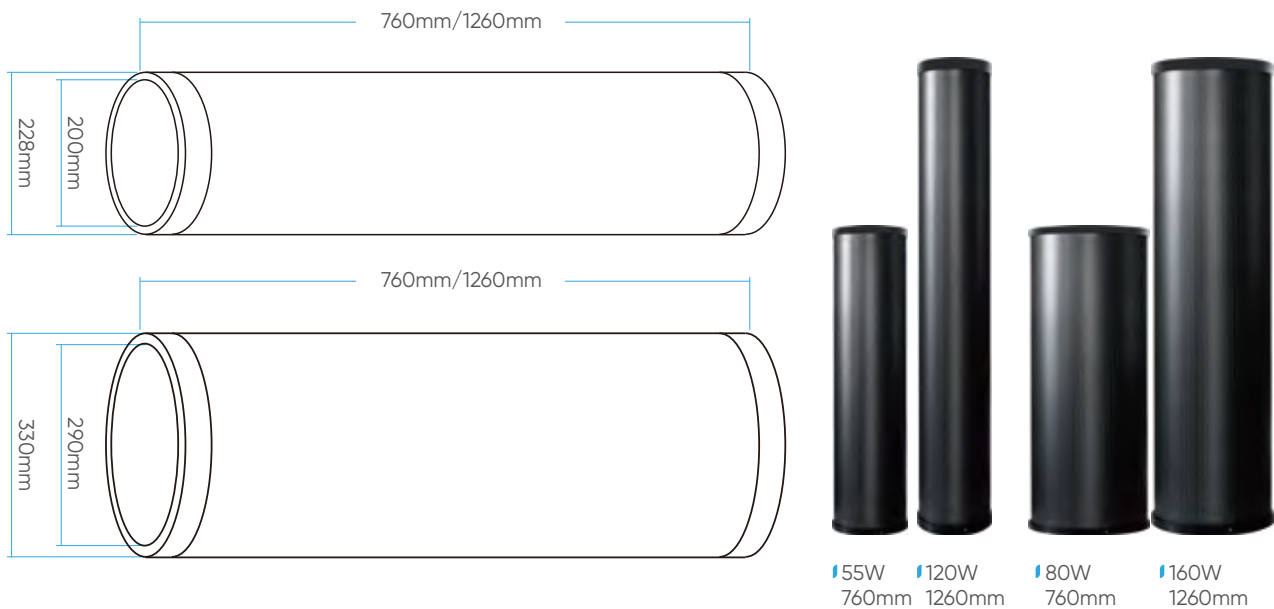
Product Features

- High performance even in low light conditions, allowing operation in mornings, evenings, and cloudy days.
- Columnar structure, 360° sunlight reception.
- High performance cell efficiency of $>22.5\%$.
- Vertical installation, can resist strong wind, and can avoid the accumulation of dust, rain, snow and fallen leaves.
- Anodized aluminum alloy frame, which is strengthened to avoid freezing or warping.
- A sturdy frame allows mounting in portrait or landscape orientations.
- Each photovoltaic panel works independently of each other.

Technical parameter

Model	SMCS 55W	SMCS 80W	SMCS 120W	SMCS 160W
Solar Power	55W	80W	120W	160W
Solar Cell	Mono-crystalline			
Cell Efficiency	22.5%			
Optimum Operating Volta	19.3V	19.3V	26.0V	38.0V
Optimum Operating Curr	0.85A	1.71A	2.05A	1.36A
Open-circuit Voltage	22.5V	22.5V	32.0V	40.0V
Short-circuit Current	0.9A	1.8A	2.15A	1.43A
Light Fixture Sizes	L228*W228*H760mm	L330*W330*H760mm	L228*W228*H1260mm	L330*W330*H1260mm

Dimension parameter



Matching lamp holder



Compatible solar integrated lights from SunMaster

Built in lithium battery, BMS and smart controller



THOR
Smart solar street lamp
40W/60W/80W/100W



4G
Smart solar street lamp
40W/60W/80W/100W

Square Column Series

UrbanSpark



Integrated solar post top lantern with Lithium Ferro Phosphate battery, vertically mounted mono-crystalline solar panel and MPPT charger. Extruded aluminium construction for sturdiness and long life. Choice of street light and post top optics and pole height of 4 & 6 meters. Charger and battery accommodated inside the pole and accessible through service hatch for ease of maintenance. Vertically mounted panels on all four sides to catch sunlight throughout the day. IP-68 battery to prevent damage in case of water logging.

Benefits

- Brings light to areas without access to electric grid
- Elegant design
- High performance cell efficiency of >22.5%.
- Preserves landscape as no trenching for cabling required
- Saves energy
- Environment friendly

Features

- Replaceable IP-68 Lithium Ferro Phosphate battery for long life and hassle free
- MPPT charge controller for maximum efficiency
- Sturdy aluminium alloy construction for sturdiness and long life
- Factory set dimming profile for run time maximization

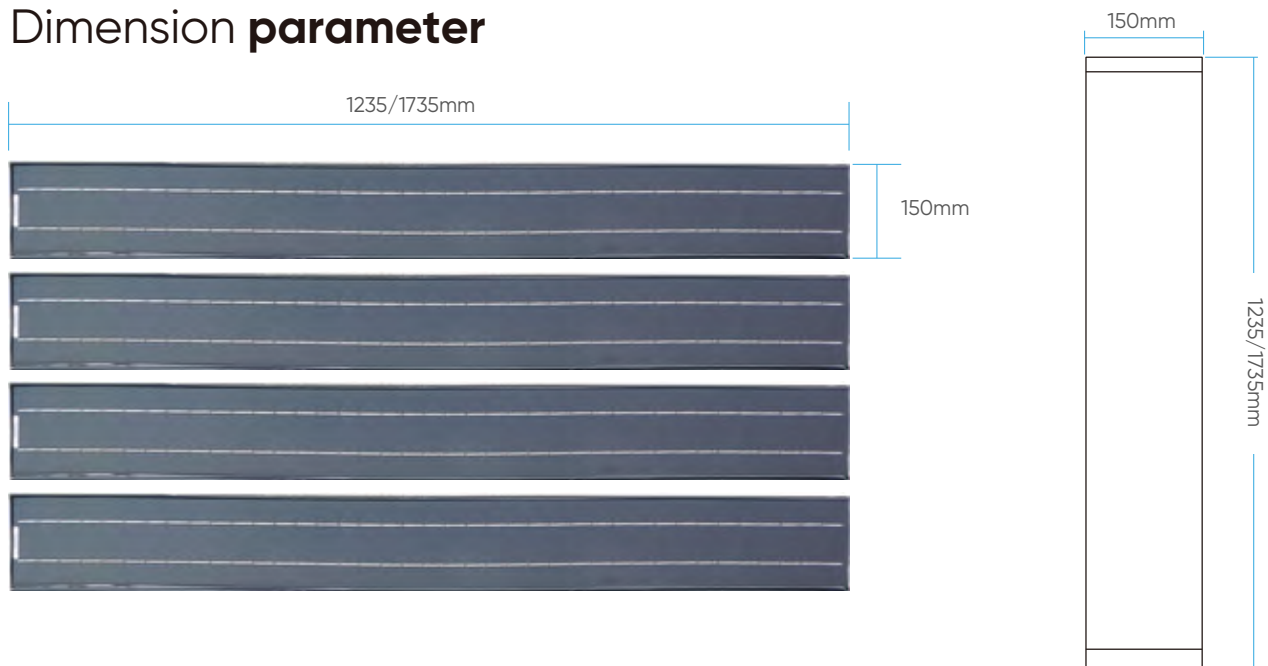
Application

- Cities
- Office campuses
- Parks
- Residential Societies
- Heritage Roads

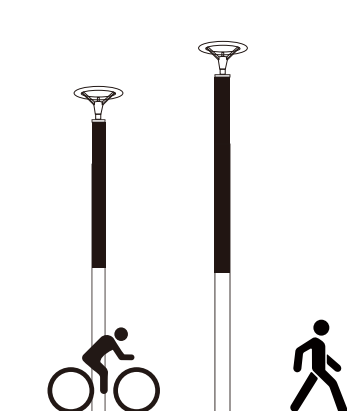
Technical parameter

Model	SMSCS 120W	SMSCS 160W
Solar Power	120W	160W
Solar Cell	Mono-crystalline	
Cell Efficiency	22.5%	
Optimum Operating Volta	23.4V	32.4V
Optimum Operating Curr	2.16A	3.28A
Open-circuit Voltage	19.5V	28.5V
Short-circuit Current	1.43A	2.06A
Light Fixture Sizes	L150*W150*H1235mm	L150*W150*H1735mm

Dimension parameter



Matching lamp holder



Compatible solar integrated lights from SunMaster

Built in lithium battery, BMS and smart controller



THOR

Smart solar street lamp
40W/60W/80W/100W



UFO

Smart solar street lamp
40W/60W/80W/100W