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Solar Vertical Pole Mounted PV Panel - Square Pole Solar c/w 25W/50W LED Street Light Post Top & Lithium LiFePO4 Battery

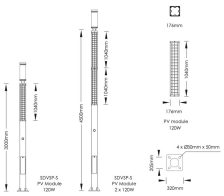
~~£1,296.00~~ £1,075.82

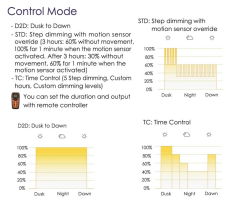














PRODUCT INFORMATION

LED Type	SMD3030 LEDs
Warranty	5 Year
Part L Compliant	Yes
Dimensions	LSTVSP-C-025 3000mm h x ø186mm LSTVSP-C-050 4500mm h x ø186mm Flange Plate 240mm x 320mm
Weight	LSTVSP-C-025 31.5kg LSTVSP-C-050 45.5kg

TECHNICAL SPECIFICATIONS

Power Consumption	LSTVSP-C-025 / 4,500lm / 12.8V/30Ah LSTVSP-C-050 / 9,000lm / 12.8V/30Ah
Power Factor	>0.96
Operating Temperature	-20°C to 50°C
L70 Rated Lifetime	+70,000hrs
Ingress Protection	IP66

LUMEN PERFORMANCE

Luminous Efficiency	180lm/W
Beam Angle	360°
CRI (Colour Rendering Index)	>80Ra
Lumen Output	LSTVSP-C-025 / 4,500lm LSTVSP-C-050 / 9,000lm

AVAILABLE OPTIONS

Colour Temperature	Natural White 4000-4500K
3-Hour Emergency Version	No
Built-in Microwave Occupancy Detector	Available on Request

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PRODUCT INFORMATION

TECHNICAL SPECIFICATIONS

LUMEN PERFORMANCE

AVAILABLE OPTIONS

1-10V Dimmable	Available on Request
DALI Dimmable	Available on Request

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Solar energy is green and renewable. Sedna's vertical solar PV pole is a solar integrated lighting system requires no energy from the grid, 100% energy saving lighting solution. More and more cities look for recyclable solar energy, traditional solar lighting system can't match the style of cities either modern or classic. lts artistic designing beautify city centres like shopping malls, commercial blocks as well as campus parks and residential areas, creating distinctive and harmonious circumstance for citizens and tourists, enhancing well-being and making cities more livable.

Utilising seamless vertical integration as a clean efficient method to integrate solar photovoltaic technology into column lighting systems. Using this method, large flat solar panels are not needed, but instead are placed around the lighting pole itself. This seamlessly integrates 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 saving on the expensive pole foundations. It also minimises the maintenance burden of dirt or snow built up on

the photovoltaic surfaces, requiring less frequent and easier cleaning. The vertical wrap around panels receive light more evenly and efficiently from the sun and sky during daylight hours, even in darker climates and seasons.

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360 - Post Top


Globe - Post Top


Panhead - Post Top


Slimline - Post Top


Eclipse - Post Top


Top Head - Post Top


20W-60W Street Lantern

NOTE: the head type must be equal or lesser wattage than the battery capacity output. If you choose a larger head ie, 60W street light on a 30W model, if will work but the light output will be limited to 30W.

Product information

Mono-crystalline high-efficiency cells solar module / Lithium Iron Phosphate (LiFePO4) battery / Electronic protection battery management system / MPPT solar charge controller / UKCA, CE & RoHS international standards / Environmentally friendly & part recyclable: no mercury or other hazardous materials used / Integrated temperature & motion sensors / Robust aluminium structure with light weight / Complies with EN60598


Integrated vertical PV panel into pole provides aesthetic view, avoids snow or sand collection


Using Iron Phosphate Lithium LiFePo4 battery, superior safety. Built-in protection for over-charge, over discharge, over current and over temperature


Vertical solar module consists of mono-crystalline high-efficiency cells instead of large flat panel for more wind-resistant

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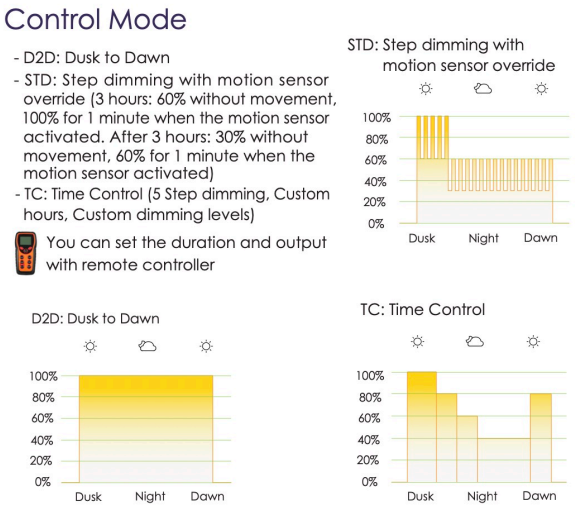
PV Module: Mono-crystalline
(25 years of anticipated lifespan)

Battery: LiFePO4 (8 years of anticipated lifespan) Pole: Extruded aluminium with high corrosion resistant powder coating
System Design: 12/24 VDC
Solar Charge Controller: MPPT

Charging Time: 5-6 hours

Control Mode: D2D (Dusk to Dawn) / STD (Step Dimming with Motion Sensor Override)

Spigot: 60mm/76mm
Operating Temperature: -10°C to 50°C



† Calculations are done with the 3 hours of Peak Sun Hour
*

Calculations are done with 12 hours of operation per day, detection of movement is 5 times per hour

Autonomy and Operation time calculations are only indicative and will depend on several variable factors

Note: whilst all units are designed to have 2 day autonomy on a full charge, as a supplier/manufacturer we have little control over the weather/sun and this prolonged periods of no sun, full cloud coverage or installed in shade will ultimately prevent the battery from full charging. If you are in need of an installation which is guaranteed 365 days a year, we recommend you opt for a mains installation to avoid any doubt.