SPV | Solar PV Systems
SOLAR ENERGY EQUIPMENT SUPPLIER

Solar Garden Light Head

TECHNICAL DATA SHEET

Dark Sky Approved design | 18W LED | Integrated solar power | PIR motion sensor

PRODUCT OVERVIEW

A contemporary solar lighting solution for walkways, gardens, pathways, car parks and commercial outdoor spaces. The integrated MONO crystalline solar panel, LiFePO4 battery and MPPT charge controller provide autonomous solar-powered illumination with automatic dusk-to-dawn operation.



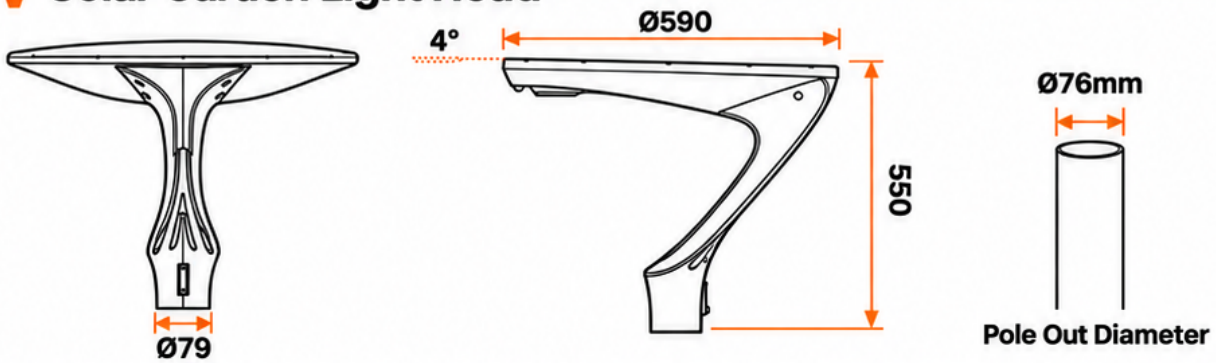
KEY FEATURES

- 18W LED with up to 2,800 lumens
- Integrated 38W MONO solar panel
- LiFePO4 battery storage – 154Wh
- MPPT solar charge controller
- PIR motion sensor and 2.4G remote control
- Adjustable colour temperature and lighting modes
- IP65 weather protection and IK08 impact resistance
- Five-year warranty

APPLICATIONS

Pedestrian walkways, car parks, gardens, parks, cycle paths, campsites and communal or commercial outdoor areas.

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TECHNICAL SPECIFICATIONS

Maximum LED power	18W
LED type	SMD5050 (5W/LED max)
Colour rendering	Ra ≥70
Colour temperature	2200K+3000K / 3000K+4000K / 3000K+6000K
Luminous flux	Up to 2,800 lumens
Solar panel power	38W
Solar panel voltage	18V
Solar cell type	MONO crystalline silicon
Cell efficiency	≥23.5%
Battery type	LiFePO4

Battery capacity	12.8V, 154Wh
Charging time	4 hours
Discharge time	Over 24 hours
Battery backup	2–3 days
Battery cycle life	4,000 cycles at 50% DOD
Charge controller	MPPT
Charging efficiency	Over 97%
Motion sensor	PIR
Remote control	2.4G radio (up to 30 metres)
Operating temperature	-10°C to 65°C
Protection rating	IP65 (weather) / IK08 (impact)
Warranty	5 years