

Technical Specifications: All In One Solar Street Light: Polaris Model

Model No.	18W LED
Physical Parameters	
Power of PV module (W)	50Wp
Lithium Battery Capacity (1 Day)	Li-ion 11.1V/19.8AH Li-FePO4 12.8V/18AH
Lithium Battery Capacity (2 Days)	Li-ion 11.1V/28.6AH Li-FePO4 12.8V/24AH
PIR Sensor	Provided
Dimensions of Product (mm)	920 (L) x 340 (W) x 55 (H)
Driver Parameters	
Charge Controller Type	PWM/MPPT
LED Driver Efficiency	>90%
LED Light Operating voltage range	Li-ion 9.6V-12.6V Li-Fepo4 11.1V-14.4V
Light Parameters	
Light Output (W)	18
Colour Temperature	5500K-6500K
Typical Luminous Flux (Lm), Model -A	1800
Typical Luminous Flux (Lm), Model -B	2160
Typical Luminous Flux (Lm), Model -C	2700
Light backup Time (1Day - 1.5 Day)	16Hr-17Hr
Light backup Time (2 Day)	23Hr-24Hr
Packing parameters	
Dimension of Packing Box	1125(L) X 400(W) X 150(H)
Gross Weight of Product (Kg)	16.8Kg
Net Weight of Products (Kg)	13.5kg
Mounting Recommendations	
Top of Pole or Tendon OD (mm)	70mm-76mm
Recommended Installation Height (M)	5M - 6M
Recommended Installation Distance (M)	15m-20m
Protection Provided	
All In One Protections	Battery deep discharge protection, Over charge protection, Load open Protection, Charging and battery indication, Reverse current flow protection , Temperature compensation , Short circuit protection
Operation	
All In One Operation	Light will glow in full bright mode for first 4Hrs. After 4hrs. Light will dim to 33% power and motion sensor will activate for detection of motion. If any motion is detected in 12M area around the Light then it will glow in full mode for 2 min. After that it will again come to 33% power