



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

Model No.	60W LED	80W LED
PHYSICAL PARAMETERS		
Power of PV module (W) (1 Day)	150W	170W
Lithium Battery Capacity (1 Day)	Li-ion 11.1V/63.8AH Li-FePO4 12.8V/54AH	Li-ion 11.1V/63.8AH Li-FePO4 12.8V/54AH
Power of PV module (W) (2 Days)	170W	NA
Lithium Battery Capacity (2 Days)	Li-ion 11.1V/96.2AH Li-FePO4 12.8V/81AH	NA
PIR Sensor	Provided	Provided
Dimensions of Product (mm)	1750(L) x 560(W) x 60(H)	1750(L) x 560(W) x 60(H)
DRIVER PARAMETERS		
Charge Controller Type	PWM/MPPT	PWM/MPPT
LED Driver Efficiency	>90%	>90%
LED Light Operating voltage range	Li-ion 9.6V-12.6V Li-Fepo4 11.1V-14.4V	Li-ion 9.6V-12.6V Li-Fepo4 11.1V-14.4V
LIGHT PARAMETERS		
Light Wattage	60	80
Color Temperature	5500K-6500K	5500K-6500K
Typical Luminous Flux (Lm), Model -A	6000	8000
Typical Luminous Flux (Lm), Model -B	7200	9600
Typical Luminous Flux (Lm), Model -C	9000	12000
PACKING PARAMETERS		
Dimension of Packing Box	1900(L) X 620(W) X 150(H)	1520(L) X 620(W) X 150(H)
Gross Weight of Product (Kg)	34.3Kg	40.1Kg
Net Weight of Products (Kg)	32kg	37.5kg
MOUNTING RECOMMENDATIONS		
Top of Pole or Tendon OD (mm)	70mm-76mm	70mm-76mm
Recommended Installation Height (M)	6M-8M	6M-8M
Recommended Installation Distance (M)	30M-40M	30M-40M
PROTECTION PROVIDED		
All In One Protections	Battery Low,Battery Over Charge,Battery Deep Discharge,Solar Panel Reverse Connection, Reverse Panel Current Flow,Battery Wire Reverse,Load Short,Load open.	
OPERATION		
All In One Operation	Mode 1 - Light will glow in the full bright mode for the first 4Hrs, After 4Hrs. Light will Dim 33% power and motion sensor will activate for the 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. Mode 2 - Light turns ON in full mode for first 2min, after 2min, if there is any motion, Light will continue in full bright mode else it will dim to 33% power.	