



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

Model No.	40W LED	50W LED
PHYSICAL PARAMETERS		
Power of PV module (W) (1 Day)	100W	120W
Lithium Battery Capacity (1 Day)	Li-ion 11.1V/44.2AH Li-FePO4 12.8V/36AH	Li-ion 11.1V/52AH Li-FePO4 12.8V/48AH
Power of PV module (W) (2 Days)	120W	150W
Lithium Battery Capacity (2 Days)	Li-ion 11.1V/63.8AH Li-FePO4 12.8V/54AH	Li-ion 11.1V/85.8AH Li-FePO4 12.8V/72AH
PIR Sensor	Provided	Provided
Dimensions of Product (mm)	1360(L) x 560(W) x 60(H)	1360(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	40	50
Color Temperature	5500K-6500K	5500K-6500K
Typical Luminous Flux (Lm), Model -A	4000	5000
Typical Luminous Flux (Lm), Model -B	4800	6000
Typical Luminous Flux (Lm), Model -C	6000	7000
PACKING PARAMETERS		
Dimension of Packing Box	1835(L) X 425(W) X 150(H)	1520(L) X 620(W) X 150(H)
Gross Weight of Product (Kg)	28Kg	30Kg
Net Weight of Products (Kg)	25kg	27.5kg
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.	