



Technical Specifications: All In One Solar Street Light: Polaris Model		
Model No.	40W LED	50W LED
Physical Parameters		
Power of PV module (W)	100Wp	120Wp
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
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)	1350(L)x 560 (W)x 43(H)	1350(L)x 560(W) x 43(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 Output (W)	40	50
Colour 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	7500
Light backup Time (1Day - 1.5 Day)	15Hr-16Hr	15Hr-16Hr
Light backup Time (2 Day)	23Hr-24Hr	23Hr-24Hr
Packing parameters		
Dimension of Packing Box	1545(L)x 650 (W)x 150(H)	1545(L)x 650 (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 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	