ZENVO

SolarSolutions
That YouNeed

Solar Street Light Catalogue

Solar Street Light

Techno Small Model
6W-24W

Dolphin Model
6W-24W

Techno Big Model
40W-60W

Eco Model
6W-12W

New Lite Model (Inbuilt Lion Battery)
6W-15W

Elite Model
60W-70W

Luminary	6W LED Luminary	9W LED Luminary	12W LED Luminary	15W LED Luminary	18W LED Luminary	24W LED Luminary	30W LED Luminary	40W LED Luminary	50W LED Luminary	60W LED Luminary
GENERAL SPECIFICATION:-										
Application & Operation with High Efficiency	Solar Street light with dusk & dawn automation, outdoor application with boost converter with constant current & constant voltage, high sensitive indication in battery low & battery over voltage, all protection required for load and battery side i.e. short circuit protection, Reverse polarity protection, No load protection									
Solar Panel Watt (max.) & Charging Profile	Solar PV Module 100W, Constant Current & Constant Voltage Charging, 6A Max. Current						Solar PV Module 150W, Constant Current & Constant Voltage Charging, 10A Max. Current			
Recommended Solar Panel (as Per MNRE)	40 Watt	50 Watt	60 Watt	75 Watt	100 Watt	120 Watt	150 Watt	225 Watt	300 Watt	325 Watt
Battery Type (recommended Size)	Tubular Lead Acid 40Ah		Tubular Lead Acid 60Ah		Tubular Lead Acid 75Ah/100Ah		Tubular Lead Acid 100-150Ah			
Lithium Battery Capacity (1 Day - 1.5 Days)	Li-ion 11.1V/6.6AH	Li-ion 11.1V/8.8AH	Li-ion 11.1V/11AH	Li-ion 11.1V/15.4AH	Li-ion 11.1V/18.2AH	Li-ion 11.1V/26AH	Li-ion 11.1V/30.8AH	Li-ion 11.1V/39.6AH	Li-ion 11.1V/49.4AH	Li-ion 11.1V/59.8AH
Recommended Solar Panel (with Lithium battery)	25Wp	40Wp			50Wp	60Wp	75Wp	100Wp		150Wp
Charge Controller Type	PWM						PWM/MPPT			
Load & Charging Efficiency	>90%									
Lumens / Wp	120 Lumens / Wp						150 Lumens / Wp			
LED Temperature CCT	5500 K - 6500 K									
Weight	Techno Small(1.7Kg)			Techno Big (2.3Kg)			Dolphin(1.4Kg)		ECO(1.2Kg)	
Dimensions	Techno Small - 645(L) X 410 (W) X 385(H)			Techno Big 435(L) X 405(W) X 445(H)			Dolphin 590(L) X 410(W) X392(H)		ECO 575(L) X 465(W)X 370(H)	
Standard Packing	Techno Small (20pcs)			Techno Big (10pcs)			Dolphin(20pcs)		ECO(24Pcs)	

NOTE:- For Lithium Battery Operation, Light will glow in full bright mode for first 4Hrs and after 4Hrs Light will Dim to 33%

Features and Advantages

- DESIGNED, DEVELOPED AND MANUFACTURED IN INDIA
- HIGHER EFFICIENCY SOLAR PANEL FOR BETTER OUTPUT
- HIGH QUALITY MPPT DRIVER
- AUTOMATIC DIMMING OPTION AVAILABLE
- BETTER BATTERY BACKUP ON CLOUDY OR RAINY DAYS
- >50000 HRS LED LIFE SPAN
- IP67 RATED LUMINARY
- LITHIUM ION AND LITHIUM FERRO PHOSPHATE BATTERY AVAILABLE WITH STANDALONE SYSTEM
- OPTIONAL BLUETOOTH REMOTE CONTROL WHICH ENABLES TO MANAGE ON/OFF, DIMMING AND HEALTH CHECK OF LED FITTINGS

All in one Solar Street Light

Features and Advantages

MPPT

Smart MPPT Controller
MPPT is high efficient rate for solar charge controller which independently designed by **Zenvo.** It generates more power especially during cloudy and rainy season.

Solar PV Module
High efficient Mono / Multi Solar Modules are used for longer durability. **Zenvo** solar panels are certified by MNRE, TUV IEC61215, 61730.

Motion Detection
Zenvo built in passive infrared motion detection system that automatically regulates the light power output full brightness 100% to dim mode 33% to increase battery autonomy.

Bluetooth Remote Control
Zenvo offers optional remote control which enables to manage ON/OFF, dimming and health check of LED fittings.

LED Light
Zenvo LED luminaries delivers the best in class lumen efficacy. Light gives the maximum light output at lower wattage.

No Cables Required
You do not need any cables for any connection to get grid power because its solar powered and user friendly products for easy installation.
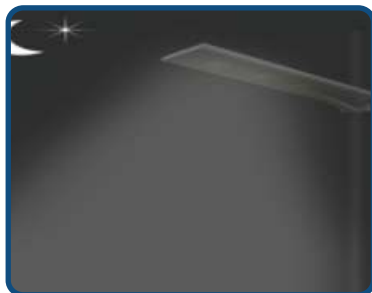
Adjustable mounting bracket

Adjustable Mounting Bracket
Adjustable Mounting Bracket helps the solar panel positioned a best angle to fully absorb sunshine in different longitude and latitude areas.

Working of All in One Solar LED Street Light

During day time light switch to auto off for charging through solar panel.

Light will glow in full bright mode for first 4 Hrs. at night and then it will come to 33% power & motion sensor will activate for detection of motion.

If any motion is detected in 12 Mtr. area around the light, it will glow in full bright mode for 2 mins.

6W-7W

9W-15W

Hybrid

Technical Specifications: All In One Solar Street Light				
Model No.	6W LED	9W LED	12W LED	15W LED
Physical Parameters				
Power of PV module (W)	25Wp	40Wp	40Wp	40Wp
Lithium Battery Capacity (1 Day - 1.5 Days)	Li-ion 11.1V/6.6AH Li-FePO4 12.8V/6AH	Li-ion 11.1V/11AH Li-FePO4 12.8V/9AH	Li-ion 11.1V/13AH Li-FePO4 12.8V/12AH	Li-ion 11.1V/15AH Li-FePO4 12.8V/13.5AH
Lithium Battery Capacity (2 Days)	Li-ion 11.1V/10.4AH Li-FePO4 12.8V/9AH	Li-ion 11.1V/15.4AH Li-FePO4 12.8V/12AH	Li-ion 11.1V/19.8AH Li-FePO4 12.8V/16.5AH	Li-ion 11.1V/23.4AH Li-FePO4 12.8V/21AH
PIR Sensor	Provided	Provided	Provided	Provided
Net Weight of Product (Kg)	6.3kg	9kg	10kg	12kg
Dimension of Product (mm)	480(L) x 400(W) x 43(H)	710 (L) x 517(W) x 43(H)	710(L) x 517(W) x 43(H)	710(L) x 517(W) x 43(H)
Driver Parameters				
Charge Controller Type	PWM	PWM	PWM	PWM
LED Driver Efficiency	>90%	>90%	>90%	>90%
Light Parameters				
Colour Temperature	5500K-6500K	5500K-6500K	5500K-6500K	5500K-6500K
Typical Luminous Flux (Lm)	600	900	1200	1500
Light backup Time (1 Day - 1.5 Days)	17Hr-18Hr	17Hr-18Hr	16Hr-17Hr	14Hr-15Hr
Light backup Time (2 Days)	23Hr-24Hr	23Hr-24Hr	23Hr-24Hr	23Hr-24Hr
Packing parameters				
Dimension Of carton	600(L) x 440(W) x 110(H)	920(L) X 580(W) X 150(H)	920(L) X 580(W) X 150(H)	920(L) X 580(W) X 150(H)
Gross Weight of Product (Kg)	7.5kg	12.6Kg	13.4Kg	14.5Kg
Mounting Recommendations				
Top of Pole OD (mm)	40mm-46mm	70mm-76mm	70mm-76mm	70mm-76mm
Recommended Installation Height (Mtr.)	5Mtr.	5Mtr.	5Mtr.	5Mtr.
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			
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 2min., After that it will again come to 33% Power.			

Note: Subject to errors and technical modifications within the scope of product improvement

18W   20W   25W-30W

Technical Specifications: All In One Solar Street Light				
Model No.	18W LED	20W LED	25W LED	30W LED
Physical Parameters				
Power of PV module (W)	50Wp	60Wp	75Wp	75Wp
Lithium Battery Capacity (1 Day - 1.5 Days)	Li-ion 11.1V/19.8AH Li-FePO4 12.8V/18AH	Li-ion 11.1V/23.4AH Li-FePO4 12.8V/21AH	Li-ion 11.1V/26AH Li-FePO4 12.8V/24AH	Li-ion 11.1V/32AH Li-FePO4 12.8V/28.5AH
Lithium Battery Capacity (2 Days)	Li-ion 11.1V/28.6AH Li-FePO4 12.8V/24AH	Li-ion 11.1V/33AH Li-FePO4 12.8V/27AH	Li-ion 11.1V/39AH Li-FePO4 12.8V/34.5AH	Li-ion 11.1V/48.4AH Li-FePO4 12.8V/42AH
PIR Sensor	Provided	Provided	Provided	Provided
Net Weight of Product (Kg)	13.5kg	15kg	19kg	22kg
Dimension of Product (mm)	710 (L) x 517(W) x 43(H)	900(L) x 560(W) x 43(H)	1050(L)x 560(W) x 43(H)	1050(L)x 560(W) x 43(H)
Driver Parameters				
Charge Controller Type	PWM	PWM	PWM	PWM/MPPT
LED Driver Efficiency	>90%	>90%	>90%	>90%
Light Parameters				
Colour Temperature	5500K-6500K	5500K-6500K	5500K-6500K	5700K
Typical Luminous Flux (Lm)	1800	2000	2500	3750
Light backup Time (1 Day - 1.5 Days)	16Hr-17Hr	17Hr-18Hr	15Hr-16Hr	15Hr-16Hr
Light backup Time (2 Days)	23Hr-24Hr	23Hr-24Hr	23Hr-24Hr	23Hr-24Hr
Packing parameters				
Dimension Of carton	920(L) X 580(W) X 150(H)	1120(L) X 640(W) X 150(H)	1250(L)x 640(W) x 150(H)	1250(L)x 640(W) x 150(H)
Gross Weight of Product (Kg)	16.8Kg	20.8kg	23Kg	25Kg
Mounting Recommendations				
Top of Pole OD (mm)	70mm-76mm	70mm-76mm	70mm-76mm	70mm-76mm
Recommended Installation Height (Mtr.)	5Mtr. - 6Mtr.	5Mtr. - 6Mtr.	5Mtr. - 6Mtr.	5Mtr. - 6Mtr.
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			
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 2min., After that it will again come to 33% Power.			

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40W 50W 60W

Technical Specifications: All In One Solar Street Light			
Model No.	40W LED	50W LED	60W LED
Physical Parameters			
Power of PV module (W)	100Wp	120Wp	150Wp
Lithium Battery Capacity (1 Day - 1.5 Days)	Li-ion 11.1V/44.2AH Li-FePO4 12.8V/36AH	Li-ion 11.1V/52AH Li-FePO4 12.8V/45AH	Li-ion 11.1V/63.8AH Li-FePO4 12.8V/54AH
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/69AH	Li-ion 11.1V/96.2AH Li-FePO4 12.8V/81AH
PIR Sensor	Provided	Provided	Provided
Net Weight of Product (Kg)	25kg	27.5kg	32kg
Dimension of Product (mm)	1350(L)x 560 (W)x 43(H)	1350(L)x 560(W) x 43(H)	1710(L)x 560(W) x 43(H)
Driver Parameters			
Charge Controller Type	PWM/MPPT	PWM/MPPT	PWM/MPPT
LED Driver Efficiency	>90%	>90%	>90%
Light Parameters			
Colour Temperature	5700K	5700K	5700K
Typical Luminous Flux (Lm)	5000	6250	7500
Light backup Time (1 Day - 1.5 Days)	15Hr-16Hr	15Hr-16Hr	15Hr-16Hr
Light backup Time (2 Days)	23Hr-24Hr	23Hr-24Hr	23Hr-24Hr
Packing parameters			
Dimension Of carton	1545(L)X650(W)X150(H)	1545(L)X650(W)X150(H)	1905(L)X650(W)X150(H)
Gross Weight of Product (Kg)	28kg	30kg	34.3kg
Mounting Recommendations			
Top of Pole OD (mm)	70mm-76mm	70mm-76mm	70mm-76mm
Recommended Installation Height (Mtr.)	6Mtr.-8Mtr.	6Mtr.-8Mtr.	6Mtr.-8Mtr.
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		
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 2min., After that it will again come to 33% Power.		

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