

A solar street light is shown in the center-right of the image. It has a long, rectangular solar panel with a grid of blue cells, mounted on a black pole. The sun is shining brightly in the background, creating a lens flare effect.

TRANSFORMING STREETS

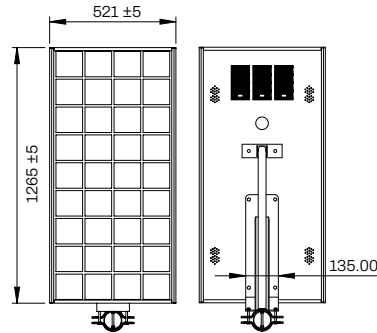
ALL-IN-ONE SOLAR STREET LIGHT

Introducing the Transrail All-in-One solar street light, a revolutionary solution designed to redefine street lighting. Compact, aesthetically pleasing, and equipped with smart PIR sensors, it offers high brightness and efficiency. With its integrated design combining solar panel, LED light, and inbuilt battery, it represents the future of sustainable urban illumination, approved by BIS & MNRE for added reliability.

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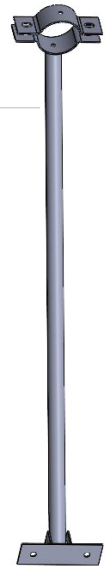
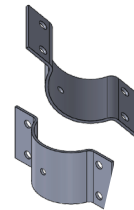


Product Diagram



Pole Mounting Pipe

Solar Light Pole Support Bracket



System Wattage(Input)	9	12	15	20	35	40	45	50	60	70	80	
Input Voltage	12.8V (nom)								25.6V (nom)			
Efficiency	≥ 90%											
LED	3030											
CRI	> 70											
CCT	5500K - 6500K											
Luminous Efficacy	Minimum 140 Lm/W ± 5%											
Total Lumen	Minimum 5600 Lm ± 5%											
LED LifeSpan	50000 hrs											
Distribution Pattern	Lens type II											
Dimming	Light moves to Dimming within 45 second if no movable object observed and light moves to full brightness when any object comes in 8-10 mtr range of PIR sensor.											
Dimming Profile	Dimmable											
Charge Controller Specification												
Charger Type	MPPT (in-built inside luminaire)											
Charging Algorithm	2 Stage charging(CC-CV)											
Protections, Indicators & General Specifications												
Open Circuit Protection	Provided											
Short Circuit Protection	Provided											
Reverse Polarity	Provided											
Self consumption	< 30 mA											
Operating Temperature & Humidity Range	0 to 45°C/35 to 80%RH											
IK for IP lens	IK08											
Housing Specifications												
Material Used	Aluminium Extrusion											
System Level Specifications (Recommended Specification for use with luminaire)												
Battery Specifications												
Battery Type	LiFePo4											
Battery Voltage	12.8V (nom)								25.6V (nom)			
Battery Capacity(AH)	Battery Capacity designed for 24hrs working (Battery life cycle 2000 cycles @ 25°C and 80% DOD)											
Backup/Autonomy	12Hrs + 12 Hrs, Smart Diming when no Movement near AIO											
Panel Specifications												
Voltage at Pm(Vm)	18V											
Panel Spec Supported	up to 150W ± 5% (Monocrystalline)											

Note: Above autonomy/backup when battery is fully charged.

Transrail Lighting Ltd is one of the leading Indian engineering, procurement and construction companies with over four decades of experience in providing comprehensive solutions on a turnkey basis globally. Our business is divided into four verticals, namely (i) power transmission and distribution (including substations), (ii) civil construction, (iii) poles and lighting, and (iv) railways. With footprints in 58 Countries, we have large-scale manufacturing facilities in India for Galvanized Lattice Towers, Conductors and Galvanized Polygonal Poles in addition to a well-accredited R&D tower testing facility.

TRANSRAIL LIGHTING LIMITED

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