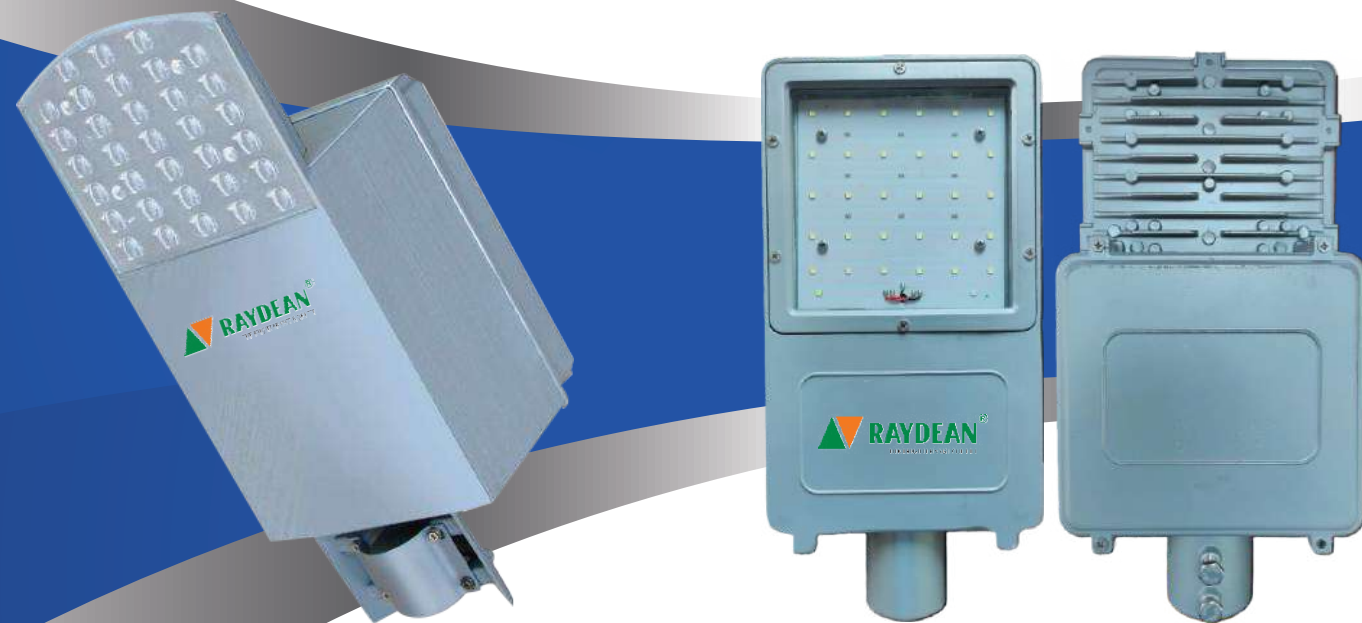




SOLAR STREET LIGHTS



Semi Integrated Nebula Series

Solar street lighting solutions provided by RAYDEAN come in many variations. One of the most popular amongst them is SEMI-INTEGRATED type, which essentially means that the battery and luminaire are integrated with each other and SPV module for charging the battery is separately mounted.

This variety is generally provided with either Lithium-ion or Lithium ferro-phosphorous batteries housed in aluminum die-cast fixtures along with LED drivers and charge controller circuits to prevent hassle of mounting batteries separately while installing a Solar street light. RAYDEAN'S Semi-integrated SSL models also come with optional remote monitoring with GSM or blue tooth technology.

Manufactured By: **RAYDEAN INDUSTRIES**

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SEMI INTEGRATED SOLAR STREET LIGHTS (NEBULA SERIES)

MODEL	NEBULA 12 W	NEBULA 15 W	NEBULA 20 W	NEBULA 24 W	NEBULA 30 W
Make	RAYDEAN				
Application	Street Lighting				
Construction	Aluminium high pressure die cast fixture with LED Lens (Inbuilt Battery Provision)				
Ingress Protection	IP65				
Dimensions	132x130x75mm	132x130x75mm	340x144x110mm	340x144x110mm	340x144x110mm
Nominal Input Voltage	12 V				
Max. Input Current	1 A	1.25 A	1.66 A	2 A	2.5 A
Max. Input Power	12 W	15 W	20 W	24 W	30 W
Luminous efficacy	>120 lm / W				
LED Make	Osram Duris				
LED Color Temperature	5500K-6500K				
CRI	>70				
Battery used	12.8 V, 12 Ah LFP	12.8 V, 18 Ah LFP	12.8 V, 24 Ah LFP	12.8 V, 30 Ah LFP	12.8 V, 36 Ah LFP
Low Cut Off Voltage	10.6 V \pm .2 V				
Load Reconnect Voltage	12.6 V \pm .2 V				
Charging Cut Off Voltage	14.6 V \pm .2 V				
Charge Controller & Driver	12 V, 5 A MPPT	12 V, 5 A MPPT	12 V, 6 A MPPT	12 V, 7 A MPPT	12 V, 10 A MPPT
Charging Methodology	Boost charging using 4 stage algorithm				
Charging Efficiency	>90%				
Load Efficiency	>90%				
Duty Cycle & Energy Saving Mode	Automatic dusk to dawn, First 5 hrs. 100% brightness, remaining at 50%				
SPV Module Used	12 V, 40 Wp poly	12 V, 60 Wp poly	12 V, 75 Wp poly	12 V, 100 Wp poly	12 V, 120 Wp poly
SPV Module (Voc)	21 V				
Autonomy	18 Hours	20 Hours	24 Hours	24 Hours	24 Hours
Protections	Battery Deep Discharge & Over Charge, Solar & Battery Reverse Polarity Protection				
Indications	Green: Battery Charging & Red: Battery low				
Connection Wire	1.5 sqmm, 2 core PVC sheated, 1 mtr. in length				

Above specifications are subject to change without any prior notification due to continuous product upgradation policy of our company

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