



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 ± .2 V
Load Reconnect Voltage					12.6 V ± .2 V
Charging Cut Off Voltage					14.6 V ± .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 Wpoly
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 sheathed, 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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