



SOLAR STREET LIGHTS



All-in-One Galaxy Series

ALL-IN-ONE type Solar street lights are very popular in solar street lighting segment today because of its compact nature and easy handling. RAYDEAN offers a variety of ALL-IN-ONE Solar street lights which comes in aluminum extrusion profiles with aluminum sheet construction as well as CRCA sheet construction. A robust MPPT charge controller with integrated LED driver circuit which is IP -65 protected within the fixture and high lumen output LED engine makes this variety aesthetically as well as functionally likeable luminaire across applications. It comes with various mounting arrangements, including center mounting, side mounting and catenary mounting. RAYDEAN's Hybrid ALL-IN-ONE variety of SSL provides for Economic solutions in power deficit areas. GSM based remote monitoring and blue tooth sensing are also provided on demand in RAYDEAN's ALL-IN-ONE SSL.

- Manufactured By: **RAYDEAN INDUSTRIES**
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ALL-IN-ONE SOLAR STREET LIGHTS (GALAXY SERIES)

MODEL	GALAXY (9W-15W)	GALAXY (18W-24W)	GALAXY (30W-36W)	GALAXY (50W-60W)
Make	RAYFUEL			
Application	Street Lighting			
Construction	Aluminium extrusion housing with LED lens			
Ingress Protection	IP65 controller-driver & LED Chamber			
Product Dimensions	694x376x60mm	1024x376x60mm	1054x522x60mm	1264x522x60mm
Nominal Input Voltage		12 V		
Max. Input Current	.75A-1.25A	1.5A-2A	2.5A-3A	4.16A-5A
Max. Input Power	9W-15W	18W-24W	30W-36W	50W-60W
Luminous efficacy		>120 lm / W		
LED Make		Osram Duris		
LED Color Temperature		5500°K-6500°K		
CRI		>70		
Battery (BIS app.)	12.8 V, 18 Ah LFP	12.8 V, 24 Ah LFP	12.8 V, 42 Ah LFP	12.8 V, 60 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	12 V, 5 A MPPT	12 V, 5 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%		
Sensor Used		PIR Motion Sensor		
Duty Cycle		Automatic dusk to dawn		
Energy Saving Mode	Without PIR motion sensor (Step dimming)	With PIR motion sensor		
	First 1min 100%	Light will turn on 30% if object is not detected		
	Next 20min 50%	Light will turn on 30% if object is not detected		
	Next 4Hour 100%	Light will turn on 30% if object is not detected		
	Remaining Time 30%	Light will turn on at 100% when object is detected		
SPV Module (BIS/IEC app.)	12 V, 40 Wp mono	12 V, 60 Wp mono	12 V, 100 Wp mono	12 V, 120 Wp mono
SPV Module (Voc)	22V	22V	23V	23V
Autonomy	24 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			

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

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