

Solaris™

Wide Area Solar Street Light System



Model – Solaris-64W

Solaris™

LED luminaries are fast replacing traditional street lighting fixtures like high pressure sodium (HPS) luminaries on account of improved energy utilization, reduced maintenance and longer-rated lifetimes. Initium Labs Solaris™ product line takes advantage of the energy efficiencies provided by LED luminaries and powers them by a photovoltaic power system, thus providing a fully functional, all encompassing off-grid street lighting solution. The Solaris™ system consists of a solar panel, sealed lead acid (SLA) maintenance free batteries, battery box for in ground installation, lamp pole, solar bracket, appropriate hardware, wiring and an intelligent battery management system.

Despite the reduced operational costs and installation savings the bane of many grid-less solar systems is the lack of reliability due to under-specification of system requirements or excessive costs due to over-specifying the same. Based on system analysis and testing, Initium Labs selects optimal components for Solaris™ by selectively adjusting parts for customer's geography and application requirements thereby providing a reliable and cost effective solution.

The Solaris™ system is designed to keep a sufficient buffer for inclement weather and absence of typical solar irradiation. The Solaris-64W is a good replacement for 120-160W HPS street lights and uses quality LEDs from Cree, Epistar or Bridgelux. The Solaris™ is manufactured by a high tier manufacturer in China based on specifications and quality control criteria from the engineering staff at Initium Labs.

KEY FEATURES

- ✓ Sustainable energy source
- ✓ Grid-less deployment
- ✓ Easy Installation
- ✓ Auto turn on/off
- ✓ High Luminous Efficacy
- ✓ Fast heat dissipation
- ✓ Good color rendition
- ✓ Good night visibility
- ✓ Weather-proof
- ✓ Vandal resistant install
- ✓ Adjustable solar panels
- ✓ Long life-span
- ✓ Efficient charge algorithm
- ✓ Battery protection



SPECIFICATIONS

System and LED module		
Dimensions (mm)	505x285x80	
Weight (kg)	5.6	
System Power consumption (W)	64	
LED Power consumption (W)	56	
Color	3000K—3500K (Warm White) 4000K—5000K (White - Yellow) 5500K—6500K (Pure white)	
Luminous Flux	5467	
Efficacy (single LED) in Lm/W	>= 110	
System Temperature Range	-35°C to 50°C	
Beam angle	Horizontal = 144° Vertical = 71°	
Illuminance	6m	44.17
	8m	24.85
	10m	15.9
	12m	11.03
	14m	8.11
Light decay	10,000 hours	< 4%
	50,000 hours	< 25%
Protection Grade	IP67	
Light life span (hours)	60,000	
Battery		
Type	Sealed Lead Acid (SLA) of type GEL or AGM	
Capacity (AH)	140 to 180	
Voltage (V)	24	
Solar Panel and Charge Controller		
Panel Max Power (Watt)	160 to 250	
Controller Voltage (V) and max current (A)	24V / 10A	

CUSTOMIZATION

Battery capacity, solar panel and associated components can be selected based on geography and measurements at customer location to find the most optimal setup. Initium Labs does such customizations where required or based on customer requests.



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