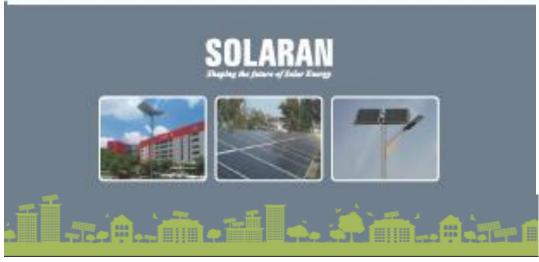


## **SOLARAN STAND ALONE SOLAR LED STREET LIGHT- Product Specification**

### HALONIX 15W SEMI INTEGRATED SOLAR LIGHT 12.8V 24AH LIFEPO4 WITH PV PANEL









## **Generalized Key Features-**

- Complete system with Pole, Battery, Battery box, Battery Stand, PV Panel, PV Panel frame, LED Luminaire with inbuilt charge controller, luminaire mounting arm, wires, Nuts & Bolts and all required accessories.
- SEC/MNRE tested approved PV Panel & Battery.
- Aluminum die-cast IP66 LED Luminaire equipped with LM80 compliance high lumen efficacy LEDs.
- High efficiency solar charge controller with constant current LED Driver used within Battery voltage Range.
- Hybrid 230V AC option also available on request.
- Smart Solar- IOT/Bluetooth/ Wi-Fi/GPRS remote monitoring also available on request.
- Customization can be done on request.



# **SOLARAN STAND ALONE SOLAR LED STREET LIGHT- Product Specification**

## **TECHNICAL SPECIFICATIONS**

Model No.	XXXX	SAP Code: XXXX	Qnty.		
Description	LED SOLAR SEMI INT 15W24AH100Wp				
BATTERY			1 Nos.		
Battery Voltage	12.8V DC				
Battery Type	12.8V 24AH Lithium Ferro Phosphate(LiFEPO4) Rechargeable- BIS Certified Cells				
LED FITTING			1 Nos.		
LED Luminaire	15W LED Luminaire made of PDC Aluminium housing IP 66 with Inbuilt Constant Current LED Driver &				
	inbuilt Automatic dusk to dawn charge controller along with Inbuilt Battery				
LED Used	High brightness High power LEDs make- OSRAM/Nichia/Cree – LM80 Compliance				
Optics	Toughened glass				
CCT	5700K to 6500K				
CRI	>70 for LED				
No Load current	Less than 20mA consumption				
Charge	PWM based automatic dusk to dawn ON/OFF				
Controller					
PV PANEL			1 Nos.		
PV Module	Multi-crystalline 125Wp PV Module under STC Make- IB Solar/ Neosol / HBL / Navitas / Jackson or				
	equivalent MNRE/SEC Tested (considering charging time in 5.5Hours @ min. 1000 w/m <sup>2</sup> Solar				
	Irradiation over PV Panel)				
<b>Mounting Struct</b>	ure & Accessories		1 Set		
Pole Length	NA				
Battery Box	NA				
PV Frame	NA				
Nuts/volts &	NA				
Accessories					
Wires	Suitable 15 meter Wires for internal connection of battery- panel- luminaire				
Protection, Feat	ures & Application				
Dimming Type	Inbuilt pre-programmed - After Dusk ON				
<b>Duty Cycle</b>	After dusk ON 12H per day- 100%-2H, 80%-4H,40%-6H				
Autonomy	2 days as per Duty Cycle per day at Battery full charge STC condition				
Protection	Over Charge , Deep Discharge , Reverse Polarity , Over load, Temperature Compensation, No Load,				
	Short Circuit				
Hybrid	NA- On Demand only				
Indication	Green Blinking-Battery Charging ,Green Stable-Battery Fully Charge , Red-Battery Low Voltage  Street lighting , Parking Lighting , Public area Lighting, Secondary Road Lighting				

#### **Key Notes-**

- Battery Charging is depending upon availability of Sun Light over PV Panel, direction- south and cleaning of PV Panel.
- PV Panel calculation based on STC as per MNRE.
- Tolerance- ± 10%.

Prepared By :	AS	TDS No.	HTPL/SOLAR/06/1019/A-0055
Checked By :	KG	Description: LED SOLAR SEMI INT 15W24AH125Wp LIFEPO4 WOPCW	

• Autonomy is as per duty cycle and based on Battery charging.