

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.

TECHNICAL SPECIFICATIONS

Model No.	XXXX	SAP Code: XXXX	Qty.
Description	LED SOLAR SEMI INT 15W24AH100WpLIFEPO4 WOPCW		
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 Controller	PWM based automatic dusk to dawn ON/OFF		
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 ² Solar Irradiation over PV Panel)		
Mounting Structure & Accessories			1 Set
Pole Length	NA		
Battery Box	NA		
PV Frame	NA		
Nuts/volts & Accessories	NA		
Wires	Suitable 15 meter Wires for internal connection of battery- panel- luminaire		
Protection, Features & Application			
Dimming Type	Inbuilt pre-programmed - After Dusk ON		
Duty Cycle	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		
Application	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- $\pm 10\%$.

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.