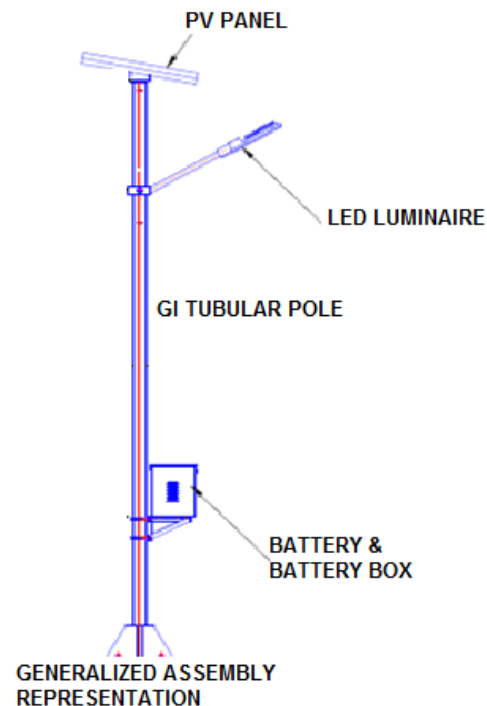


HALONIX 12W STAND ALONE SOLAR LED STREET LIGHT 30AH LIFEPO4 75Wp



LED LUMINAIRE WITH MPPT CONTROLLER



LIFEPO4 12.8V 30AH BATTERY



75Wp PV PANEL

TECHNICAL SPECIFICATIONS

Model No.	HLSSLSA0101131119-12W-WP-CWL	SAP Code:	Qty.
Description	LED SOLAR SL SA12W6M30AHLIFEPO475WpWPCWL		
BATTERY			1 Nos.
Battery Voltage	12.8V DC		
Battery Type	12.8V 30AH Lithium Ferro Phosphate(LiFEPO4) Rechargeable- BIS Certified Cells- make Future tech/ Evolute		
LED FITTING			1 Nos.
LED Luminaire	12.8V 12W LED > 125 lm/w efficacy Luminaire made of PDC Aluminum housing IP 66 with Inbuilt Constant Current LED Driver & inbuilt Automatic dusk to dawn charge controller with more than 90% electronics efficiency		
LED Used	High brightness High power LEDs with lenses make- OSRAM/Nichia/Cree – LM80 Compliance		
Optics	Secondary Lenses Type-II distribution		
CCT	5700K to 6500K		
CRI	>70 for LED		
No Load current	Less than 20mA consumption		
Charge Controller	Inbuilt MPPT based solar charge controller 12V 5A with auto dusk ON/OFF		
PV PANEL			1 Nos.
PV Module	Multi-crystalline 75Wp 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/m2 Solar Irradiation over PV Panel)		
Mounting Structure & Accessories			1 Set
Pole Length	6 meter GI Tubular In-ground mounting pole 2.2mm thick 76mm OD (5 meter above Ground) with Corrosion resistance painted		
Battery Box	Battery Box made of MS CRCA sheet duly Powder coated with printing of “HALONIX” Brand Name		
PV Frame	PV Panel frame made of GI hot dip galvannized		
Nuts/volts & Accessories	MS Zinc Plated nuts n bolts along with foundation bolts as required, luminaire mounting arms, battery box stand and other accessories as required		
Wires	Suitable Wires for internal connection of battery- panel- luminaire 2.5 sqr mm DC 2 core wires		
Protection, Features & Application			
Dimming Type	Inbuilt preprogrammed time based dimming after dusk ON		
Duty Cycle	After dusk ON 12H per day- 100%-4H, 50%-8H		
Autonomy	3 days / 36 Hours 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		
Indication	Green Blinking/ OFF-Battery Full Charge ,Green Stable-Battery 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- $\pm 10\%$.
- Autonomy is as per duty cycle and based on Battery charging.

Prepared By :	AS	TDS No.	HTPL/SOLAR/01/1019/K-0113
Checked By :	KG	Description: LED SOLAR SL SA 12W6M30AH75Wp LIFEPO4 WP CWL	