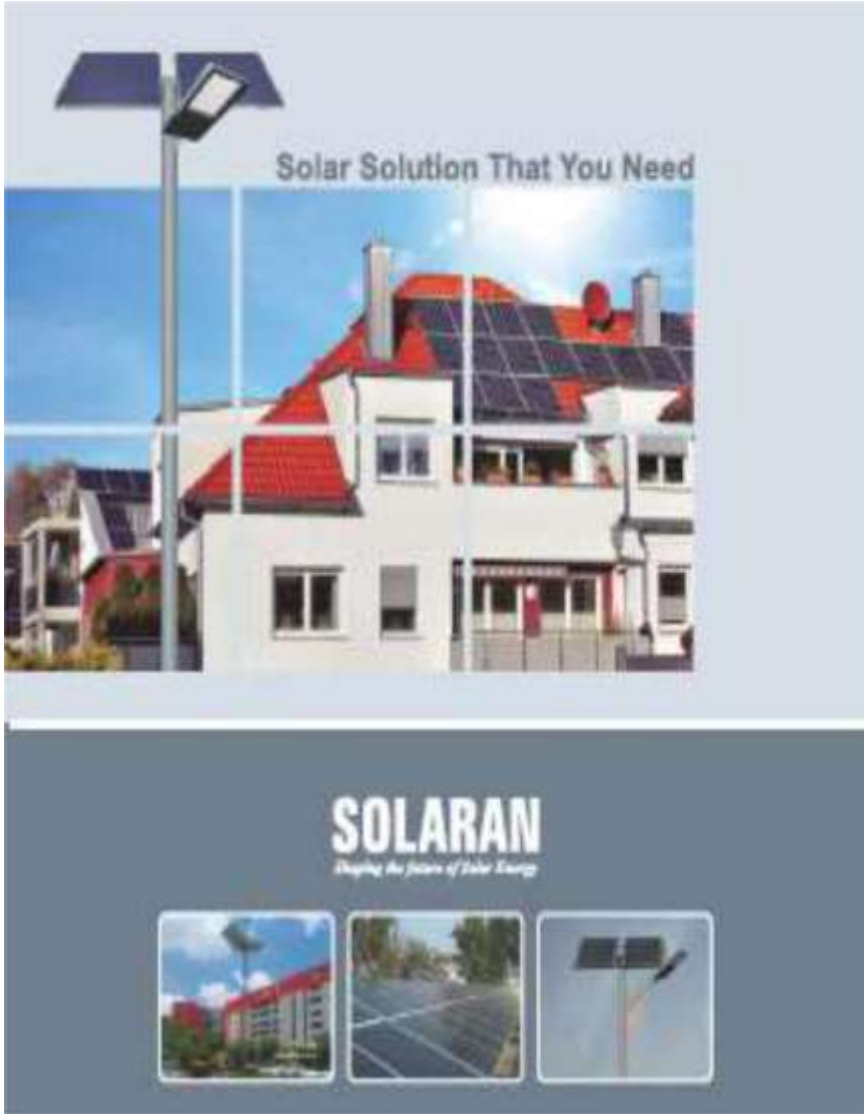


**HALONIX INTEGRATED SOLAR LED STREET LIGHT 18W 24AH LIFEPO4 40Wp-PV ROTATION**



**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/Extrusion 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.

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**TECHNICAL SPECIFICATIONS**

|                                               |                                                                                                                                                                                                                                                                                                               |                             |                |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------|
| <b>Model No.</b>                              | HLSSLINT0401060619-18W-WOP-CWL                                                                                                                                                                                                                                                                                | <b>SAP Code: LLD0001977</b> | <b>Qty.</b>    |
| <b>Description</b>                            | LED SOLAR SLINTE0418W40Wp24AHLIFEPO4WOP                                                                                                                                                                                                                                                                       |                             |                |
| <b>Battery</b>                                |                                                                                                                                                                                                                                                                                                               |                             | <b>Inbuilt</b> |
| <b>Operating Voltage</b>                      | 12.8V DC                                                                                                                                                                                                                                                                                                      |                             |                |
| <b>Battery Type</b>                           | 12.8V 24AH Lithium Ferro Phosphate (LiFEPO4) Rechargeable- BIS Certified Cells                                                                                                                                                                                                                                |                             |                |
| <b>LED Fitting</b>                            |                                                                                                                                                                                                                                                                                                               |                             | <b>Inbuilt</b> |
| <b>System Wattage</b>                         | 12.8V 18W LED Luminaire integrated made of corrosion resistance Aluminium as heatsink and MS Powder coated Housing IP 65 with PV rotation & tilting feature ,Inbuilt Constant Current LED Driver, Automatic dusk to dawn charge controller to ensure efficiency more than 90% equipped with PIR motion sensor |                             |                |
| <b>Lumen Efficacy</b>                         | ≥100 lm/w                                                                                                                                                                                                                                                                                                     |                             |                |
| <b>LED Used</b>                               | High brightness High power LEDs make- Osram/Cree/Nichia – LM80, L70 Compliance                                                                                                                                                                                                                                |                             |                |
| <b>CCT</b>                                    | 5700K to 6500K                                                                                                                                                                                                                                                                                                |                             |                |
| <b>CRI</b>                                    | >70 for LED                                                                                                                                                                                                                                                                                                   |                             |                |
| <b>Charge Controller</b>                      | MPPT Charge controller with Automatic dusk to dawn                                                                                                                                                                                                                                                            |                             |                |
| <b>Solar PV Module</b>                        |                                                                                                                                                                                                                                                                                                               |                             | <b>Inbuilt</b> |
| <b>PV Module</b>                              | Multi-crystalline 40Wp PV Module under STC equivalent MNRE/SEC Tested (considering charging time in 5.5Hours @ min. 1000 w/m <sup>2</sup> Solar Irradiation over PV Panel)                                                                                                                                    |                             |                |
| <b>Mounting Structure &amp; Accessories</b>   |                                                                                                                                                                                                                                                                                                               |                             | <b>Inbuilt</b> |
| <b>Pole Length</b>                            | Suitable to mount up to 5 meter pole– pole not included- Pole available on specific demand only                                                                                                                                                                                                               |                             |                |
| <b>Mounting Bracket</b>                       | Included                                                                                                                                                                                                                                                                                                      |                             |                |
| <b>Battery</b>                                | Integrated inside the box below PV Panel                                                                                                                                                                                                                                                                      |                             |                |
| <b>PV Frame</b>                               | Included                                                                                                                                                                                                                                                                                                      |                             |                |
| <b>Wires</b>                                  | MC4 Connector for interconnection IP65                                                                                                                                                                                                                                                                        |                             |                |
| <b>Protection, Features &amp; Application</b> |                                                                                                                                                                                                                                                                                                               |                             |                |
| <b>Dimming level</b>                          | PIR motion sensor based dimming- 100% once motion detected and rest time operate at 30% load                                                                                                                                                                                                                  |                             |                |
| <b>PIR Motion Sensor</b>                      | Inbuilt/ Time based dimming option also available on specific demand                                                                                                                                                                                                                                          |                             |                |
| <b>Duty Cycle</b>                             | After dusk ON 12 Hours/day considering 3 Hours at 100% and 9 Hours at 30% of the Load                                                                                                                                                                                                                         |                             |                |
| <b>Autonomy</b>                               | 1.5 days as per Duty Cycle per day at Battery full charge STC condition                                                                                                                                                                                                                                       |                             |                |
| <b>Protection</b>                             | Over Charge , Deep Discharge , Reverse Polarity , Over load, Temperature Compensation, No Load, Short Circuit and other as applicable                                                                                                                                                                         |                             |                |
| <b>Hybrid</b>                                 | Not included / available on specific demand                                                                                                                                                                                                                                                                   |                             |                |
| <b>Indication</b>                             | Green Blinking-Battery Charging , Green Stable- Battery Full Charge, Red Stable- Battery low voltage                                                                                                                                                                                                          |                             |                |
| <b>Application</b>                            | Street lighting , Parking Lighting , Public area Lighting, Campus Lighting                                                                                                                                                                                                                                    |                             |                |

**Key Notes-**

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

|                      |    |                     |                                          |
|----------------------|----|---------------------|------------------------------------------|
| <b>Prepared By :</b> | AS | <b>TDS No.</b>      | HTPL/SOLAR/04/0619/K-0106                |
| <b>Checked By :</b>  | KG | <b>Description:</b> | LED SOLAR SLINTE04 18W40Wp24AHLIFEPO4WOP |

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