

## Solar Lights : LED Round Light 10,20, 40 W, SL Series



**Model** : SL Series

### Applications

Solar Energy DC lights for Solar System lighting ; Streets, Canopies, Work Centers, Markets, Shops, Houses, Schools, Hospitals, Subways

### Description

- Power Consumption : 10.5 W, 21W, 42 W
- Arrangement of LEDs : 144 / 288 / 576 SMDs on high quality PCBs
- Type of LEDs : SMDs, Super High Bright
- LED View Angle : 120 degrees
- Input Voltage : 180 – 260 V AC
- Housing : Aluminum Frame with PV cover

### Performance and Characteristics

- Light intensity : 80 lm/watt
- Beam Angle : 120 degrees
- Color Temperature : Cool white, Pure White or Warm light
- Working Temperature : -20 to 60 °C with good thermal management
- Long Life; > 50,000 hours
- Maintenance free operation during whole design life
- No companion component required, i.e. no choke/ballast or starter
- Instant start, no flickering, no humming, avoids headache and eye soaring in long working hours
- No fluorescent flickering with high intensity light
- No hazard of mercury or lead entering the environment
- No RF interference

## Features:

### Power

- Switching mode and multiple channel constant current design to drive individual LED series connected to the circuit to ensure constant current loading
- Power Factor (0.95 at 40/80 W full load)
- Over-heat and over-voltage protection designed with self thermal compensation ensures long LED life and optical performance

### Thermal

- Unique thermal design achieves 55°C sink base temperature @ 35°C ambient and still-air condition, 2°C temperature variation on sink base and LED junction temperature controlled below 75°C

**NOTE :** The lights can be assembled in various combination and type of mountings based on users' requirements

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