



Let the Light be Life™

**STREET LIGHTING**

*Solar Street Light*

**SHEDIR™**

**36W - 4000 Lumen - 35Lux**

## TECHNOLOGY

The newest solar streetlight **SHEDIR™** is the latest generation system for road lighting developed by **Istar Solar®** after many years of studies and researches.

This is a very efficient and autonomous system, that can light up streets, crossings, parking areas, gardens and many other places where the grid is missing or where people cannot make excavations or cables connections, with many advantages in comparison with the traditional streetlights with Sox lamp.

The **innovative led lamp with only 12 High Power Chip Leds white light, low consumption of 36W**, with an average **lifetime of 60.000 hours** is the result of our researches on the field of led lighting.

Thanks to this, we can offer a small system with high performances, reduced weight, space, number of modules, batteries and components needed, and therefore with lower costs.

During the day the PV module produces energy that is stored into the battery. After sunset the energy is used to switch on the led lamp.

Switch on at sunset and switch off at sunrise are automatic by means of a morning-light device already built-in on the charge controller **Istar Solar® Rigel™ 10**.

This **Rigel™ 10** has a microchip to set up the switch off of the lamp after sunset, according to the needs.

The Charge controller **Rigel™ 10** has been properly studied for lighting and for stand alone systems, and is equipped with all main useful functions necessary for a proper functioning of the system : charge controller with check of state of charge of battery, boost and float charge and **morning-light function**.

The streetlight **SHEDIR™** is very easy to install and it's a very useful efficient and completely autonomous system in case of black out.

## The advantages of Istar Solar lighting systems, Led technology:

- Energy saving
- Reduced light pollution
- Reduced environmental impact: the total absence of metal pollutants, RoHS compliance
- Longer lifetime: Led bulbs have a life greatly exceeding 60.000 hours
- Greater uniformity and efficiency
- Best performances immediate switch on and re-ignition time
- Better maintenance of Lumen provision/output over time, compared with traditional lamps
- Road safety : higher real rendering of colors and vibration effect equal to zero
- Cool white light without heat production
- Reduced maintenance
- Green technology: the system is fully independent and works with only the SOLAR LIGHT

**ISTAR SOLAR® S.r.l.**

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# STREET LIGHTING

## Solar Street Light

**SHEDIR™**

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Standard configuration of "Shedir 36W street light"

**The Solar Street Light Shedir is composed of:**

- N. 1 Photovoltaic Module **IS110P - 110Wp 12V**
- N. 1 Die-cast aluminium lamp Arm with 36W led and electronic equipment
- N. 1 Charge controller Rigel 10 with electronic morning-light function
- N. 2 lead acid dry batteries 110Ah 12V
- N. 1 Lamp bracket
- N. 1 Top of pole mount structure, diameter 90mm with tilt 45°

(On request is possible to supply the Top-of-Pole Mount kit + battery box)

Outside diameter suggested at the top of pole: **90mm**

**Photovoltaic modules to use according to the latitude:**

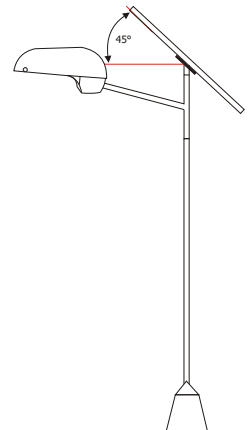
- 0° - 30°N :** N.1 PV Module **IS110P - 110Wp poli**
- 30° - 45°N :** N.2 PV Module **IS110P - 110Wp poli**
- > - 45°N :** N.2 PV Module **IS3000P - 150Wp poli** (with Rigel 20A)

Note: the lighting system are sized to operate around 12 hours per night, with a range of 4/5 days of autonomy without sun. However, in conditions of bad weather and/or not optimal exposure of the modules, the batteries may completely discharge and the lamp will remain off until there are suitable conditions for charging the battery

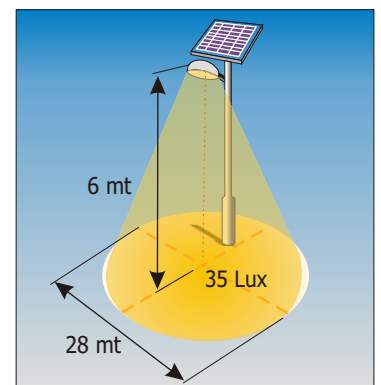
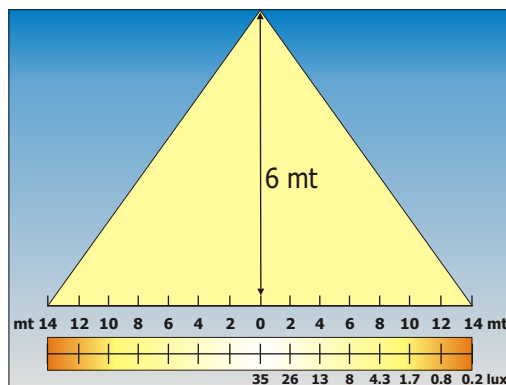
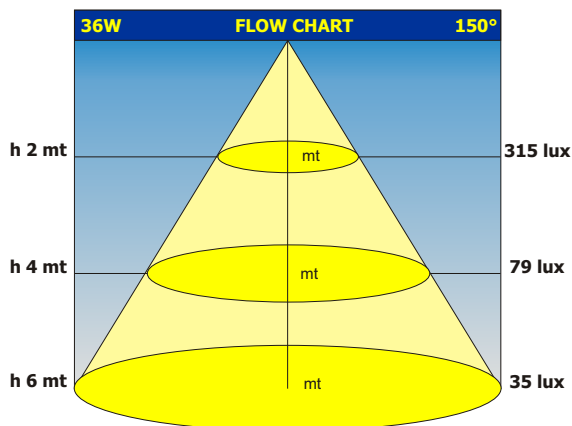


High Power Led White Light	12 LED
Nominal voltage	12 VDC
Color Temperature	K 6.500
Luminous intensity	Lux 35
Luminous in lumen	Lm 4000 (111 Lm/W)
Power consumption	36 Wh
Lifetime of led lamp	>60.000 h
Typical installation Height	6 mt
Diameter of light cone *	28 mt
Operating Temperature	°C from -10 a +50

\* See photometrics data



### Photometrics Data



**Conformity to: 2006/95/EC - 2004/108/EC directives**

Istar Solar® reserves the right to change the products specifications without previous notice



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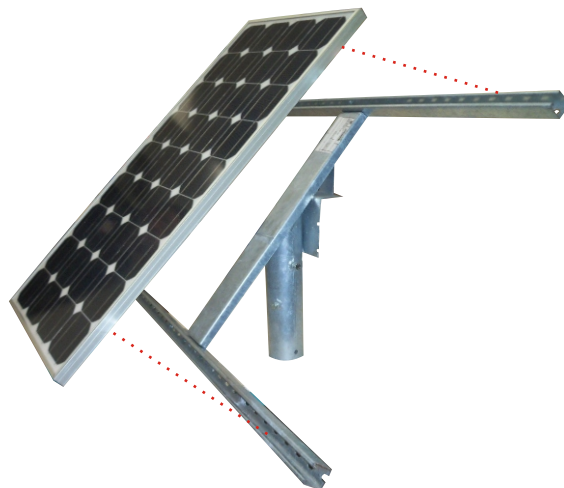
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**SHEDIR™**

### Top of pole mount kit

(for 90mm pole)

Tilt: 45°

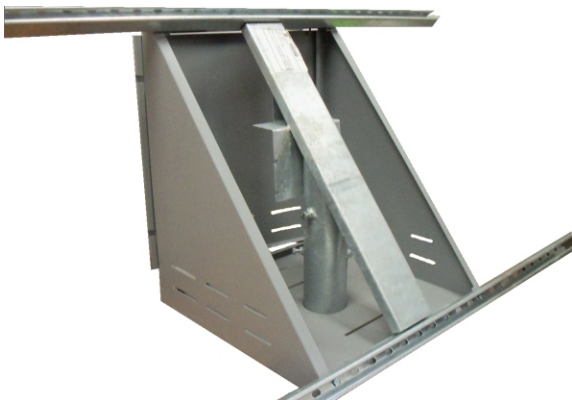


**Arm bracket**

### ACCESSORIES

#### Top of pole mount kit with batteries Box (for 90mm pole)

On request and with surcharge we can supply the top of pole mount kit for the fixing of module and the storage of the electronic equipment and batteries.



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