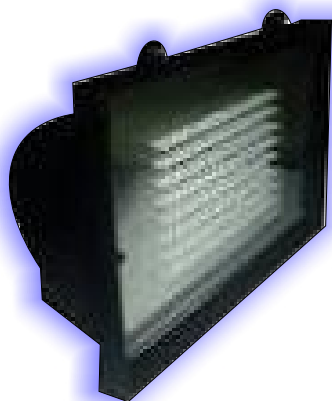




New BIG LIGHTING SYSTEM

SHEDIR™

Let the Light be Life™



SHEDIR™ is the newest solar system for big lightings.

The very high luminous intensity of this system, equal to 2.850 (*) LUX, is obtained thanks to continuous studies and researches made by Istar Solar® on the field of high intensity led lighting.

The great result of this development is the **brightness increase** and the **considerable reduction of consumptions**.

In fact **SHEDIR™** consumes only 36Wh and can take the place of big powerful lights (1.000-1.500 Watt) commonly used to light big areas such as tennis grounds, football grounds, squares, industrial sheds and areas, recreational places, camping, seaside, concert halls, etc...

It's completely autonomous and intelligent functioning is powered by only 2 photovoltaic modules **IS90P 90Wp 12V** that during the day charge the batteries, sized for an **autonomy of 3 days no sun**.

In the evening the morning-light function already built-in on the charge controller **Istar Solar® Rigel™ 12** switches on the lamp that will then be switched off at sunrise.

Thanks to this built-in device there is no need to add an external morning-light sensor.

The charge controller can also set up the switch on of lamps up to a maximum delay of 2 hours after sunset.

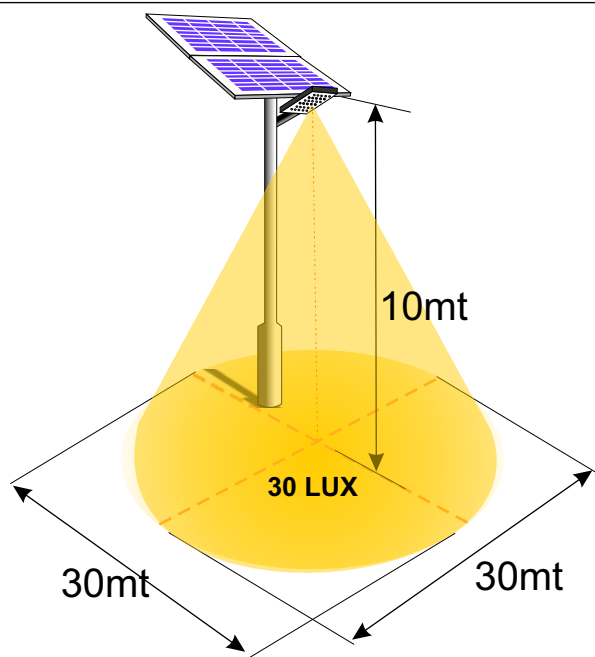
The big advantages of this system like : the complete autonomy to the grid, **the average lifetime of our lamps (100.000 hours equal to 22 working years)**, the long lifetime of our photovoltaic modules (over 30 years), the 12Volts functioning and therefore any risk during handling or installation, high savings of money and time due to the absence of works for excavations and cables connections, white light and low consumption, no maintenance, no bills to pay, etc... make the **pay-back time of this system very short and quick**.

Additional information on cost reductions and pay-back time of the system, can be found on the **comparative table**.



SHEDIR™ system is composed of:

- 2 PV Modules IS90P 90Wp 12V
- 1 Led lamp high luminous intensity, complete of IP65 arm
- 1 Lead acid dry battery 230Ah 12Volts
- 1 Charge controller **Rigel™ 12** 12A 12/24Volts



Electrical and Technical Data

(*) Lamp: Standard test at 1mt

Lamp	LED 36W white light
Luminous intensity	Lux 30 at 10mt
LED Lamp average lifetime	100.000 hrs (22 years)
Typical installation from ground	10-12 mt
Diameter of light cone	mt 30
Working temperature	°C da -20 a +60
2 Photovoltaic modules	IS90P 90Wp 12V
Charge controller	Rigel™ 12
Morning light function	Electronic
Lead acid dry battery	230 Ah
System voltage	12 Volts



Istar Solar® reserves the right to change the features of modules without notice

ISTAR SOLAR® S.r.l.

Industrial Area Tito Scalco - 85050 Tito Scalco (PZ) ITALY

Tel. +39 0971 485157 Fax +39 0971 651970 E-Mail: info@istarsolar.com Web: www.istarsolar.com