



New

SOLAR BILL BOARD

MIRAM™

Let the Light be Life™



Among the wide range of complete systems, Istar Solar® introduces **MIRAM™** on the market : **the only autonomous solar system used for the lighting of billboards: MIRAM™**. This system is composed by **special innovative lamps of new generation and very low consumption, developed and manufactured by Istar Solar®** after many years of studies and researches in the field of **high intensity Led lighting**. These lamps are powered by photovoltaic modules.

The big advantages of this system like : the complete independence from grid, the **lifetime of lamps (100.000 hours 22 working years!)**, the long lasting of photovoltaic modules (over 30 years), low working voltage (12VDC) so not dangerous, no need of works for excavations and cables connections, **very white light and low consumption**, no maintenance, no bills to pay, etc... make the cost of the whole system amortizable in just few years, with a high profit.

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

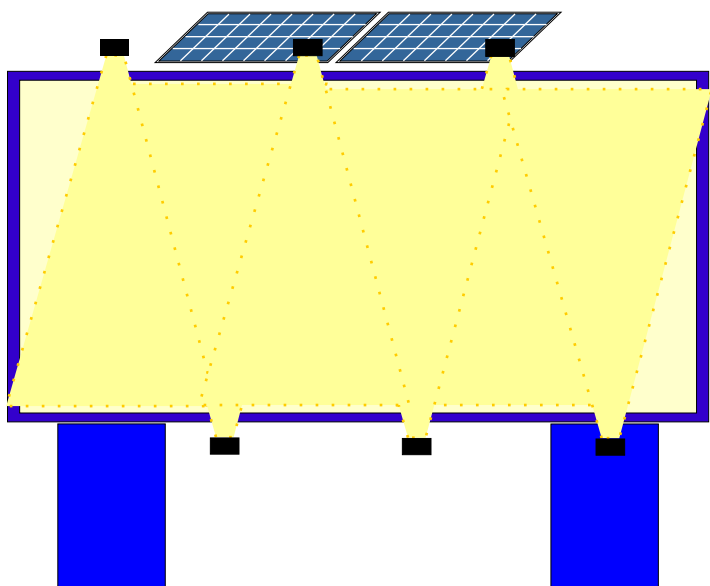
The completely autonomous functioning makes the system very efficient : during the day the modules charge the batteries (sized for 3 days of autonomy no sun) and in the evening the charge controller **Rigel™12** (manufactured by Istar Solar®) with built-in morning light function switches on the lamps that will be switched off automatically at sunrise for 12 hours per night.

With this built-in function there is no need to install an external morning-light function.

Moreover, with this charge controller it is possible to set up the switch on of lamps up to a maximum delay of 2 hours after sunset.

MIRAM™ system is composed of :

- 2 PV Modules IS110P 110Wp 12V
- 6 Led lamps high luminous intensity, complete of IP65 arm
- 2 Lead acid dry batteries 230Ah 12Volts
- 1 Charge controller **Rigel™12** 12A 12/24Volts



Electrical and Technical Data

Lamp	LED 8W white light
Luminous intensity	Lux 450
LED Lamp average lifetime	100.000 hrs (22 years)
Working temperature	°C da -20 a +60
2 Photovoltaic modules	IS110P 110Wp 12V
Charge controller	Rigel™ 12
2 Lead acid dry batteries	230Ah
Morning light function	Electronic
System voltage	12 Volts



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

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