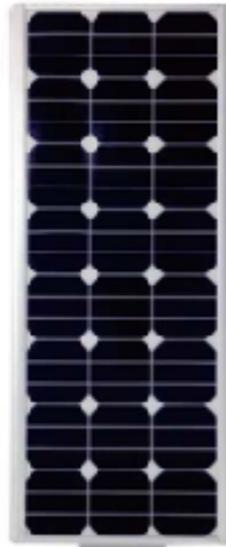




**Sunnytek** Solar Sweden  
**Solar Light Unit 6000 Lumen**

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**Solar Light Unit SBU 6000** is a design optimised for tropical applications where there is no grid and limited infrastructure. Tropical areas can be cloudy for some days and this add different demands to areas that are very sunny and with not so much rain and clouds. This lamp is an integrated design with all in a box and no external parts. Simple and rugged design with PIR detector for on and off

**Features of Solar Led lamp SBL-6000**

- \* 60 W solar panel of mono crystalline design with best output cloudy days and in twilight.
- \* Mono crystalline solar panels from Germany
- \* New generation LED emitter with 6000 Lumen output and 120 Lumen / W light flux. Compare to typical 100 Lumen / W and we gives more light flux.
- \* Led chips by USA made Bridgelux of new generation. They are nr 1 in Led chips
- \* Bat wing lens that have a rectangular beam shape matching street shape far better than a circle.
- \* Extruded aluminum housing and all in one design.
- \* Micro processor controlled driver with intelligent features.
- \* PIR control and activated on and off operation and intelligent clock for different output strength
- \* Lithium battery with huge 40 AH 12 volt capacity for internal power.
- \* Pole mount included in delivery.



This is a simple to use and simple to install solar lamp with good performance balanced to reasonable costs and Life Cycle Cost. It is designed to operate for 7-10 years with no service and can easily be upgraded for extended life when needed.

The led lamp have emitter arrays with correction lenses on each led emitter for best illumination of a street and its rectangular shape

**Technical characteristics Solaris solar led lamp**

Rated LED power 50W

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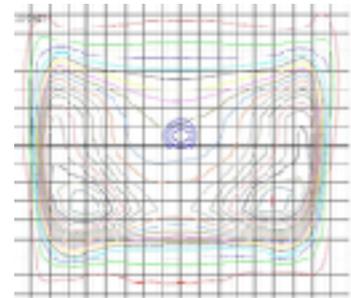


# Sunnytek Solar Sweden

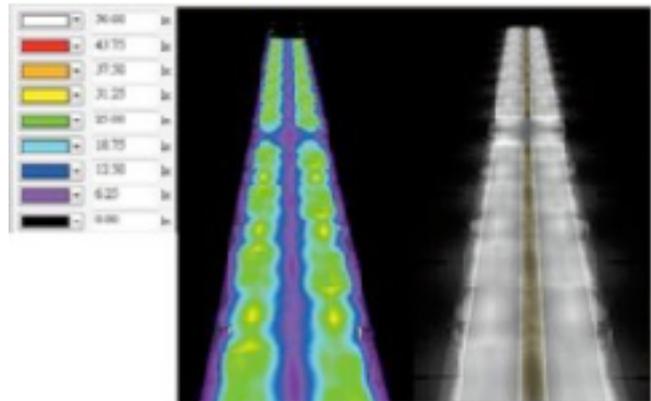
## Solar Light Unit 6000 Lumen

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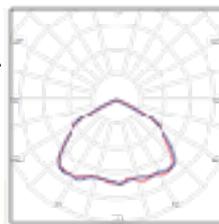
Light flux	6000 Lumen
Color temperature	5000-5500 K
CRI colour index	0.70-0.80
Pole height	6-12 meters depending on intensity demands.
Beam angle	Bat wing design rectangular 120x70 degree to match street angles better
LED emitter	Bridgelux USA and 3 separate arrays with many Leds
Internal voltage	12 volt
LED driver max output	60W for led
MPPT charger	Maximum Peak Power tracker for dynamic handling of ambient light / input
Programmable	Functions are programmable from street level by remote controller in many different ways as output power + clock and times and dynamics
Solar Panel	Mono crystalline panel by Sunpower in Germany optimised for twilight operation and cloudy days
Operation	20 Hours full power and 40 hours -50%
Max power	80 W according to international standards
Connection	Integrated inside box
Battery	Lithium technology
Capacity	40 AH 12 volt battery capacity
Life time	Typical 7-10 years in normal operation
Ambient temperature	- 30 C to + 40 C and short time + 50C
Encapsulation	IP 54 / IP 65
Certificates	CE aproved etc.
Pole adapters	Included as plates



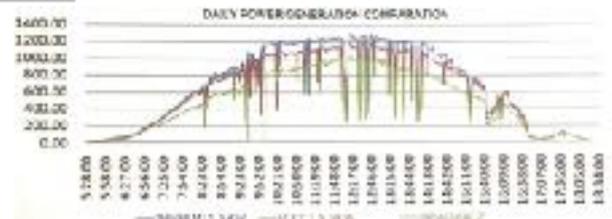
**Batwing** equalise intensity over illuminated area and makes beam rectangular. If we make a circle over a street lots of light will be in centre of street and not that much at edges. Bat wing lenses with rectangular beam match street shape far better. It also makes intensity far more even and better for users. Difference is dramatic and can often make a 50% weaker lamp to shine better than 2X the stronger lamp.



**Cloudy days** is an issue One rainy day in Amazonas sun can be less 5-10 % in strength compared to a sunny day. Mono Crystalline panels are here a bit better than the cheaper multi Crystalline panels. Large panels as 80W is always a good help to get the nights in Brightness. If we have high efficiency leds as ours 120W Lumen / W we get more light flux per W we feed into leds and this stress battery and panel far less. Graph at rights shows what happens a rather sunny and fine day with some clouds on sky.



What happens a very rainy day is obvious. Box design is simple and easy to use and handle. panel can not be adjusted independent of led lamps.



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