



Solar Powered Signs

DST develops and produces advanced Solar Powered Signs. Our signs apply a wide range of advanced technologies, both of lighting and Solar Power management.

The company produces small signs designed for Street Names, and larger signs designed for directions and advertising.

Use of our signs saves money!

- There is no need for existing power infrastructure
- There are no ongoing power costs
- There is no need to change lighting elements over the years.

Maintenance Costs Plummet!

We also have significant cost savings on the signs themselves:

- Use of particularly small solar panels is possible since we know how to maximize the energy efficiency of each panel
- Light is projected on the sign in an even and efficient manner allowing the light intensity to be lowered without affecting its luminescence.

A special mechanism lowers the brightness of the lights in the late hours of the night and in bad weather conditions to ensure there is light in any condition without having to enlarge the components of the system.



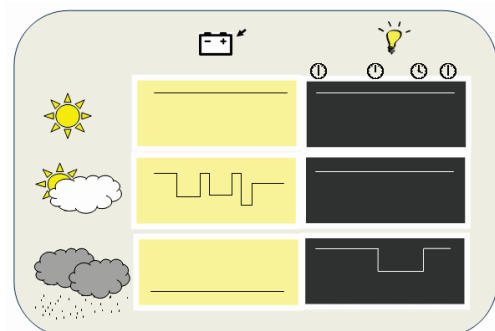
What happens when there is inadequate sunlight?

Sometimes, due to bad weather conditions, insufficient sunlight is available for the system.

It is possible to prepare for any weather conditions by installing larger solar panels, adding batteries, having backup generators... in short - to increase the cost of the solution in order to be prepared for the rarest occurrences.

We at DST prepare for these situations without having to increase costs!!!

Our system, based on advanced micro-processors measures each day the amount of light and the strength of the sunlight, as well as the amount of darkness, and acts accordingly. When the batteries aren't receiving enough of a charge, the processor instructs the lighting system to lower the intensity of the light during the late hours of the night and to increase it during the early darkness hours and very early in the morning.



In this manner we are able to keep costs at a minimum while offering the best lighting solution



DST

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Technical Data – 1200X1800mm commercial sign

Components:

- Polycrystalline/flexible Solar panel
- Advanced, micro-computer based, charge controller for efficient and optimal solar panel usage.
- Battery Charger and discharger that prevents over charging/discharging and extends battery life time
- Two stages Current Regulator, with advanced programmed algorithms for different energy levels.
- Rechargeable Led-Acid Battery (Recyclable)
- L.E.D Based Light Box

Light Output

Normal: 550 Lx, Economical (dimmed):350 Lx

Recommended Sizes of Solar Panels and Batteries (Based on Mexico minimum Monthly Solar Radiation)

		Nightly Working Hours			
		12	8	6	4
Operting Days Without Charging	0	72	48	36	24
		36	24	18	12
1	Recomanded Panel Pic-Watt Output	96	64	48	32
	Recomanded Ah Battery (12V)	72	48	36	24

Drawings

