



## Solar Powered Signs

DST develops and produces advanced Solar Powered Signs. Our signs apply a wide range of advanced technologies, in both 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 an electric power infrastructure
- There are no ongoing power costs
- There is no need to change lighting elements over the years.

### **Forget Maintenance Costs!**

Our signs provide significant cost savings on the signs themselves:

- Use of exceptionally small solar panels is possible since the energy efficiency of each panel is maximized
- Light is projected onto the sign in an even and efficient manner allowing the light intensity to be lowered without affecting luminescence.

A special mechanism dims the lights in the late hours of the night and in bad weather conditions to ensure there is light under all conditions without requiring expansion of the components of the system.



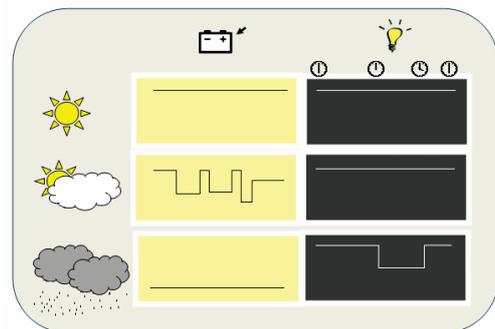
### What happens when there is inadequate sunlight?

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 - increasing the cost of the solution in order to be prepared for the rarest occurrences.

DST prepares for these situations without having to increase the costs!!!

Our system, based on advanced micro-processors continuously measures the amount of light and the strength of the sunlight, and the amount of darkness, and acts accordingly. When the batteries aren't sufficiently charged, the processor instructs the lighting system to dim 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 optimal 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

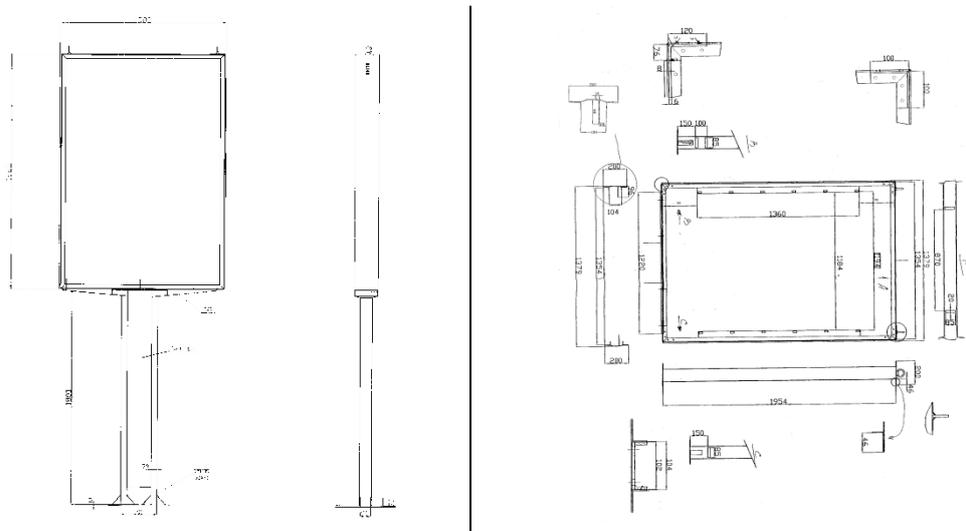
### Light Output

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
Opening 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



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