



Impact of Weather Conditions

Solar products work best in completely sunny and clear conditions. Unfortunately, direct sunlight is not always available at times even during the daytime. The time it takes to charge batteries and electronic devices will vary depending on the daytime weather conditions.

The chart below demonstrates the percent of sun energy available to be absorbed by solar cells during different daytime weather conditions. The pictures are examples of some of the types of skies for selected weather conditions noted in the chart.

TYPICAL PERCENTAGE OF SUNLIGHT

Clear and Sunny	Misty	Partly Cloudy	Mostly Cloudy	Overcast	Severely Overcast
~90% to ~115%	~85% to ~100%	~60% to ~120%*	~30% to ~100%	~20% to ~60%	~10% to ~40%
A		B	C		D
* Reflection off nearby clouds can enhance %					



A

B

C

D

