

Solar Array Selection Guide

To determine the correct number of solar panels to order, first find your location, then refer to the corresponding region (by color) on the chart. The size of the solar array you will need depends on two major factors:

1. The amount of sun in the location where you will be using the equipment.
2. Your latitude (how high or low the sun is in the sky)

Solar Requirements for Optimal Configurations for All-Year, Full-Time Operation of Silent Messenger Full Matrix Message Boards*

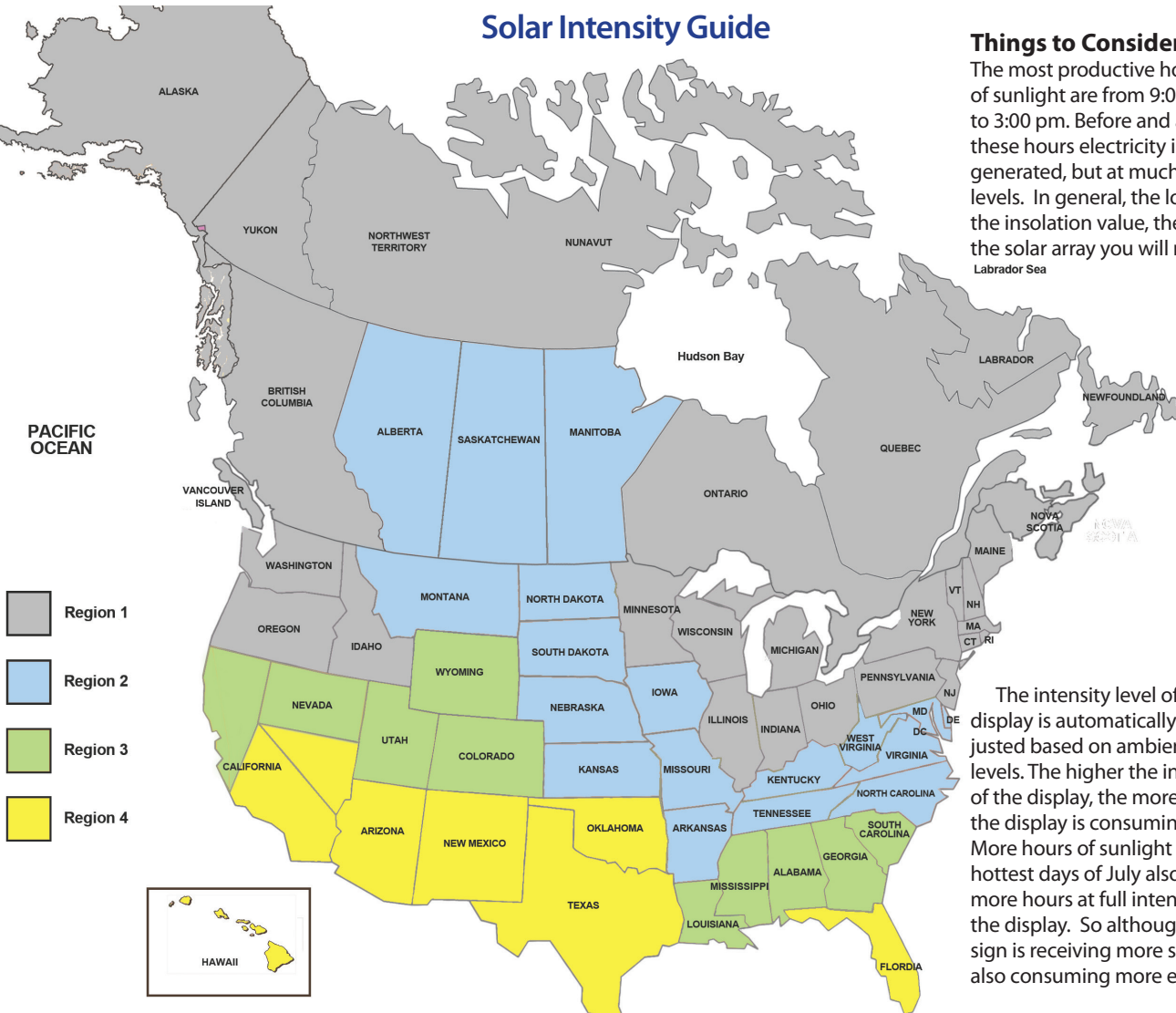
Full-Size MB		MB II		MB III	
SOLAR	# BATTERIES	SOLAR	# BATTERIES	SOLAR	# BATTERIES
320	8	240	6	240	4
240	6	240	6	160	4
240	6	160	4	160	2
160	4	160	4	160	2

Solar Intensity Guide

Things to Consider:

The most productive hours of sunlight are from 9:00 am to 3:00 pm. Before and after these hours electricity is still generated, but at much lower levels. In general, the lower the insolation value, the larger the solar array you will need.

Labrador Sea



The intensity level of the display is automatically adjusted based on ambient light levels. The higher the intensity of the display, the more energy the display is consuming. More hours of sunlight in the hottest days of July also mean more hours at full intensity for the display. So although the sign is receiving more sun, it is also consuming more energy.



* Many factors affect the optimization of message boards, including the font you select. Please consult us for further configuration choices. Call your Solar Technology rep or our Support Team at **800-475-5442**