



SOLAR PANELS

Photovoltaic power for recharging batteries

*Rugged, Reliable, and Ready
for any Application*

More info: 780.454.2505

campbellsci.ca/solar-panels




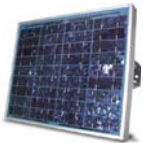
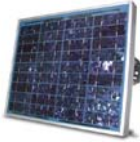


Solar panels are photovoltaic power sources capable of recharging batteries. The minimum battery size and solar panel output required depends on:

- The average current drain of the system
- The maximum time the battery must supply power to the system without being charged
- The average current drain of the system the location of the site

Solar panel characteristics assume 1 kW m⁻² illumination and 25°C solar panel temperature. Individual panels may vary up to 10%. The output panel voltage increases as the panel temperature decreases. All solar panels are shipped with hardware for mounting to a tripod or tower.

For more information contact a Campbell Scientific Measurement Consultant.

MAJOR SPECIFICATIONS

	Cable Description	Compatible Regulator	Compatible Batteries	Max. Power	Current at Peak	Voltage at Peak Power	Size
MSX10 10 W Solar Panel Supports tropical to temperate latitudes 	<u>Length</u> user specified or 3.0 m (10 ft) <u>Termination</u> Pigtails that attach to the power supply, regulator, or battery base	CH100 or regulator built in the PS100, PS200, or CR3000	12 V Gel Cell or AGM lead acid batteries ^a such as the batteries used with the PS100, PS200, BP12, BP24, and CR3000	10 W	0.56 A	17.9 V	<u>Dimensions</u> 42.5 x 27.3 x 5.0 cm (16.7 x 10.7 x 2.0 in) <u>Weight</u> 1.9 kg (4.2 lb)
MSX20 20 W Solar Panel Supports higher elevation and latitude locations 	<u>Length</u> user specified or 3.0 m (10 ft) <u>Termination</u> Pigtails that attach to the power supply, regulator, or battery base	CH100 or regulator built in the PS100, PS200, or CR3000	12 V Gel Cell or AGM lead acid batteries ^a such as the batteries used with the PS100, PS200, BP12, BP24, and CR3000	20 W	1.12 A	17.9 V	<u>Dimensions</u> 50.2 x 42.5 x 5.0 cm (19.8 x 16.7 x 2 in) <u>Weight</u> 3.0 kg (6 lb)
MSX20R^b 20 W Solar Panel with Onboard Regulator Supports higher elevations and latitudes 	<u>Length</u> user specified or 3.0 m (10 ft) <u>Termination</u> Pigtails that attach to the battery	18529 Morning Star SunSaver	User-supplied flooded, 12 Vdc batteries such as deep-cycle marine or RV batteries	20 W	1.12 A	17.9 V	<u>Dimensions</u> 50.2 x 42.5 x 5.0 cm (19.8 x 16.7 x 2 in) <u>Weight</u> 3.0 kg (6 lb)
MSX30R^b 30 W Solar Panel with Onboard Regulator Supports higher elevations and latitudes 	<u>Length</u> user specified or 3.0 m (10 ft) <u>Termination</u> Pigtails that attach to the battery	SK6	12 V Gel Cell or AGM lead acid batteries ^a such as the batteries used with the PS100, BP12, BP26, CR3000, CR5000, CR7, and CR9000(X)	30 W	1.68 A	17.9 V	<u>Dimensions</u> 79.6 x 35.8 x 5.0 cm (31.3 x 14.1 x 2 in) <u>Weight</u> 3.9 kg (8.6 lb)
MSX50R^b 50 W Solar Panel Powers Remote Systems 	<u>Length</u> user specified or 3.0 m (10 ft) <u>Termination</u> Spade lugs or prewired connector	SK6	EnerSys Genesis NP Series (such as the PS200, BP12 BP24), EnerSys Cyclone Series, Concorde Sun Xtender Series (such as the BP84 and PS84), or flooded	50 W ^c	2.9 A	17.5 V	<u>Dimensions</u> 83.9 x 53.7 x 5.0 cm (33 x 21.1 x 2 in) <u>Weight</u> 6 kg (13 lb)

The MSX10, and MSX20 are **NOT** intended for user-supplied 12 Vdc flooded batteries such as deep cycle marine or RV batteries.

^bThe MSX20R, MSX30R, MSX50R draw a continuous 2 mA current drain.

^cThe 50 W maximum power for the MSX50 assumes one solar panel is used. Two MSX50 solar panels can be connected to one 18529 Morning Star SunSaver Regulator to get a maximum power of 100 W.

