



# SP Series MONO-CRYSTALLINE SOLAR PANELS



## F E A T U R E S

Patriot Solar Group's fully weatherproof solar panels are designed to provide clean, quiet and reliable power in 6W, 12W and 30W models for rugged outdoor applications, providing a source of constant power for RVs, emergency vehicles, and other specialty vehicles. An unbreakable plastic film surface with semi-flexible aluminum backing make these panels ideal for mounting on flat or gently curved decks. Mono-crystalline cells have the industry's highest conversion efficiency, providing maximum power while taking up less space on deck. Each panel has 4 grommet finished holes for mounting along with 10' of outdoor rated power cable that connects directly to your battery or a charge controller.

- Highly efficiency mono-crystalline solar cells
- Fully weatherproof low-profile & lightweight design
- Semi-Flexible panels with aluminum backing for flat to gently curved surfaces
- Unbreakable protective plastic film coating
- 20 year power output warranty (1-10 Years 90%; 11-20 Years 80%); 2 year materials limited warranty
- 10' power cable (12 gauge tinned copper)
- Made in China



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#### S P E C I F I C A T I O N S

MODEL		SP-30	SP-12	SP-6
<b>ELECTRICAL</b>	Maximum Output (Pm)	30 Watts	12 Watts	6 Watts
	Maximum Output Current (Ipm)	1.74 Amps	0.78 Amps	0.39 Amps
	Maximum Output Voltage (Vpm)	17.2 Volts	15.5 Volts	15.5 Volts
	Short-Circuit Current (Isc)	1.93 Amps	0.86 Amps	0.43 Amps
	Open-Circuit Voltage (Voc)	21.6 Volts	19.0 Volts	19.0 Volts
<b>PHYSICAL</b>	Length	21.7" (553mm)	15.5" (393 mm)	11.5" (293 mm)
	Width	20" (516 mm)	13.9" (353 mm)	9.7" (247 MM)
	Depth	.5" (14 mm)	.5" (14 mm)	.5" (14 mm)
	Weight	5.7 lbs (2.6 Kg)	2.9 lbs (1.3 Kg)	1.5 lbs (0.7 Kg)



#### Typical Applications

Maintenance charging for boats at moorings

Maintenance charging for emergency vehicles or service utility trucks

Sole source charging for auxiliary recreational Equipment– RVs, Camping

Traffic Signs, Remote/Mobile Security Cameras, Highway



In most cases, electrical connection can be made directly to the battery on the 6W panel. For the 12W and the 30W panels, a charge controller is recommended to prevent overcharge of the system. As a guideline, a charge controller should be used when the solar panel to battery ratio exceeds 10W to 100Ah.