

# idealPV SSP1 – 220/270 Solar Panel

# US Patent 8,952,672



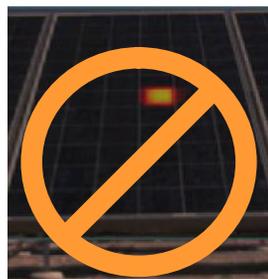
The Ideal Photo Voltaic panel is low cost, high power, installs almost anywhere, matches with almost anything, will weather for decades and above all is safe.

The Patent Pending idealPV SSP1 module is the culmination of 12 years of research and testing. Exclusive Forward Only Zero Hot Spot technology embedded in the module keeps the cells cool and safe, even when partially shaded. FOZHS also drives unmatched compatibility adapting to shadows, heat, any other module power and any inverter, even motor drives and batteries!



Typical single string application 20 idealPVs

Up to 20 modules may be connected in a single string, each automatically adapting to every roof angle and direction available. Beyond making installation a snap, more power is gathered from a smaller roof. A special lower "mud room" section makes shadows from vent pipes and chimneys less important while increasing power production when partially covered with dirt or snow.



No Hot Spots

### Features you won't find anywhere else

- No Hot Spots
- Extinguishes DC Plasma Arc (SAS)
- Turns off when disconnected (FRSS)
- Vmp and Voc fixed over temperature
- Peak power over a dynamic range of voltages
- Install array from the top down with bottom jbox
- Mount multiple headings and angles in the same string
- MPP matches any power idealPV or any other 60 cell module
- Available in Vmp from 25 to 60V, Voc 35 to 70V and Isc 4 to 10A
- shadow and dirt effect minimized by 80/20 horizontal substrings
- Directly drives standard motor Variable Frequency Drives
- Directly charge 24 to 48 Volt battery systems

### Features you can get anywhere and demand

- Exceeds all safety standards
- Long production life
- Ruggedly built in the USA
- Works with any inverter
- Installs on standard racks

Parameter		Value	TC
Voltage	Voc	40V	±0.05%/°C
	(Vmp)	32V	±0.05%/°C
Current	Isc 0.1 Sun to 1.5 Sun	10A	±0.05%/°C
	(Imp)	8.4A	-0.39%/°C
Power	(Pmax)	268W	-0.39%/°C
NOCT	°C	40°C	Ta + 20°C

### Dimensions and Weights

Cells / Module	60 Cell (equivalent Si)
Module Dimensions	1653mm x 982mm
Module Thickness (Depth)	46mm
Approximate Weight	18.7kg

