

SOLAR  SAVE®ROOFING  
MEMBRANES

PREMIERE SERIES SP450

Winner of:



&amp; PREMIERE SERIES SP 225

## ELEGANT, EFFICIENT, ECONOMICAL SOLAR POWER SYSTEMS

Open Energy's SOLARSAVE® Roofing Membrane is a unique product that maintains the natural look of your property while generating clean, safe, efficient electricity from the sun. SOLARSAVE® Roofing Membrane is easy to install on commercial, industrial, institutional, and residential low slope roof tops, making SOLARSAVE® an ideal solution for your next renewable energy project.

### BENEFITS AT A GLANCE

- Provides quiet, reliable power generation
- Reduces / eliminates monthly energy bill
- Low maintenance requirements
- Blends seamlessly into existing roofline
- Increases the resale value of your building
- Tax credits and other incentives available
- Reduces pollution and green house gas emissions

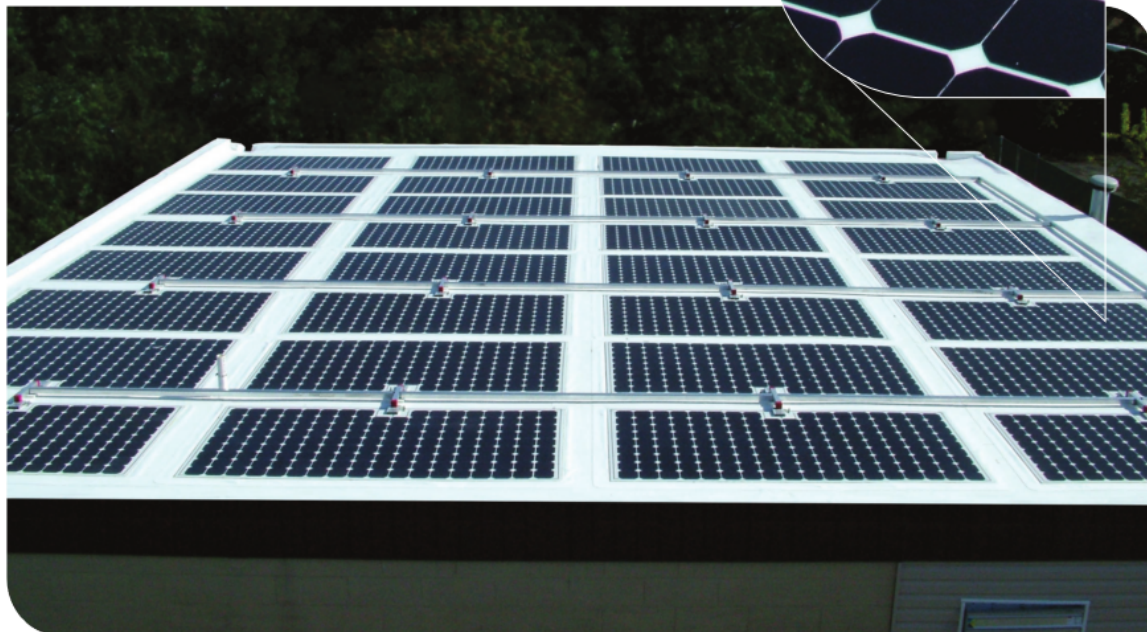
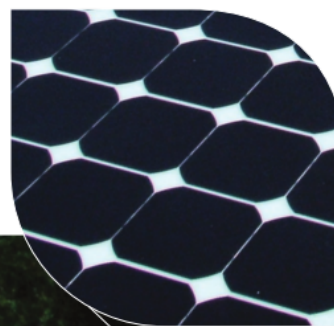
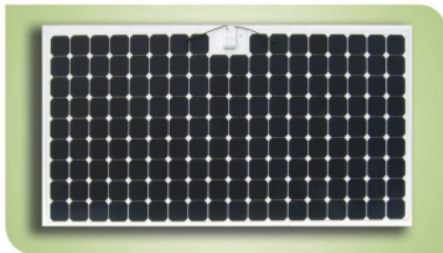
### FEATURES AT A GLANCE

- Highest power output per sq. ft. in the industry
- A waterproof solar roof with no penetrations
- Class A Fire rated, UV stabilized, and hail resistant
- Lightweight; no structural reinforcements required
- Resists water ponding, mold, or mildew growth
- 20 year warranty on roof material and energy performance
- Captures low light levels up to 2% better than glass
- Minimizes power loss from shading, debris, and soiling

SP 225



SP 450



Premiere Series SP450 - Commercial Application

KTS Machine Shop, New Jersey

## INSTALLATION AT A GLANCE

- Installs over existing roofs; no demolition costs
- Lightweight; easy and inexpensive to install
- No complicated rack mounting or ballast required
- Modular; fully scalable and expandable
- Maximizes energy output by installing around roof obstructions
- Membrane to membrane connection is tool-free plug and play

## EFFICIENCY AT A GLANCE

Each square foot of a SOLARSAVE® Roofing Membrane generates up to 15 watts of electricity when operating in full sunlight.

## SAVINGS AT A GLANCE

Most 50 states and the District of Columbia currently offer financial incentives to support your solar energy investment. As of 2006, California provides a \$2.60 per watt rebate. New Jersey pays up to \$5.50 per watt, which can cover over half of the cost of a system. Colorado, Illinois and Maine have similarly aggressive programs. The Database of State incentives for Renewable Energy ([www.dsireusa.org](http://www.dsireusa.org)) is an excellent source for information regarding the various incentive programs, which can include net metering rebates, accelerated depreciation, tax incentives, feed-in tariffs, and renewable energy credits.

## TECHNICAL SPECIFICATION AT A GLANCE

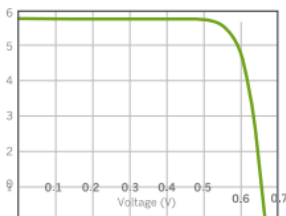
Technology	Building-integrated photovoltaic (BIPV)	
Type of solar cell	SunPower A-300	
Color availability	Cells: Black on a white background	
Roofing applications	Commercial/residential, flat to a low slope: Maximum pitch of 2.5:12	
Size of active solar area	<b>SP450:</b> 48 X 96	<b>SP225:</b> 48 X 50
Membrane weight (active solar area)	<b>SP450:</b> 52 lbs. (<1.7 lbs. per sq. ft.)	<b>SP225:</b> 28 lbs. (<1.7 lbs. per sq. ft.)
Cell configuration	<b>SP450:</b> 160 cells (2 parallel strings of 80 cells in series)	<b>SP225:</b> 80 cells (2 parallel strings of 40 cells in series)
Thickness of membrane	0.3075"	
Thickness of junction box	0.735"	
Total thickness of membrane + JB	1.0425"	
Membrane topcoat	Ethylene-tetrafluoroethylene (ETFE)	
Connector type	MC Quick Connects (plug and play)	
Nominal power (Pmax)	<b>SP450:</b> 450W	<b>SP225:</b> 225W
Open circuit voltage (Voc)	<b>SP450:</b> 53.3V	<b>SP225:</b> 26.2V
Short circuit current (Isc)	<b>SP450:</b> 11.3A	<b>SP225:</b> 10.9A
Maximum power voltage (Vmp)	<b>SP450:</b> 44.5V	<b>SP225:</b> 22.25V
Maximum power current (Imp)	<b>SP450:</b> 10.2A	<b>SP225:</b> 10.2A
Bypass diodes	<b>SP450:</b> 10 embedded diodes	<b>SP225:</b> 6 embedded diodes

## WARRANTIES

- 20-year material warranty on roofing membrane
- 5-year limited warranty on workmanship and material
- 10-year limited warranty on 90% power output
- 20-year limited warranty on 80% power output

## CERTIFICATIONS

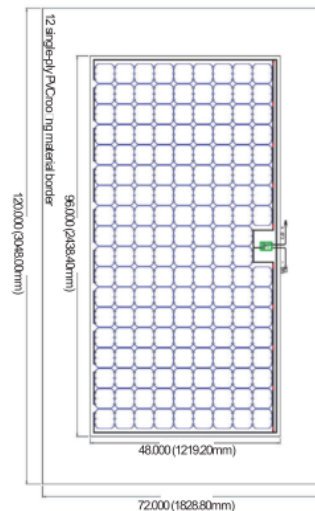
- UL1703
- UL790 Class A Fire Rating
- IEC61215 (pending)
- FSEC Listed **SP450:** OE06-NT90-0025 **SP225:** OE06-NT90-0030
- CEC Listed



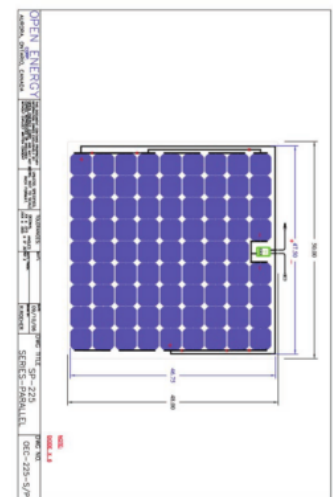
### TYPICAL CELL OUTPUT CURVE

\* Electrical specifications at Standard Test Conditions: Irradiance of 1kW/m<sup>2</sup> spectrum of 1.5 air mass and cell temperature of 25 degrees Celsius. Specifications subject to change without notice.

**SP450**



**SP225**



Open Energy Corporation (OTC:BB OEGY) is a San Diego based company dedicated to the development of renewable energy solutions. Our mission is to enhance life by harnessing the power of the sun.