

**BUILDING INTEGRATED
PHOTOVOLTAIC (BIPV)
STANDING SEAM
ROOF SYSTEM**



It's as easy as 1-2-3!



MEASURE



APPLY

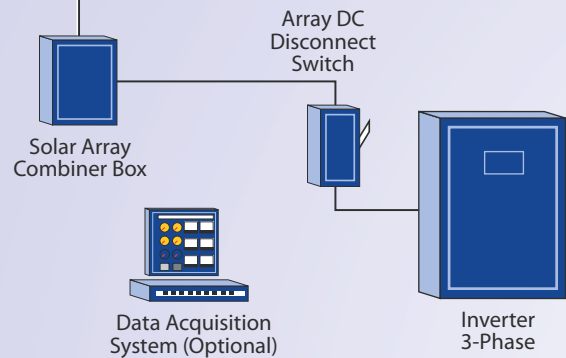
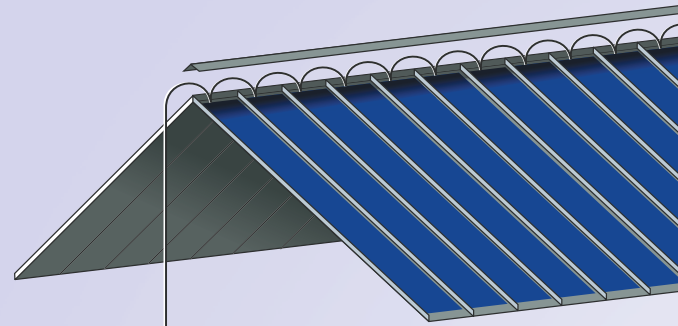


INSTALL

Whirlwind Steel Buildings, Inc. manufactures a complete line of pre-engineered metal buildings, metal building components and now offers SOLAR. In manufacturing Whirlwind Solar Energy Systems, thin-film solar laminate is fused to the surface of the roofing panel substrate. The panel/laminate bond that is created has been tested and proven to **withstand hurricane winds**.

The flexibility and durability of the laminate make them ideal for metal roofs, where expansion and contraction are considerations. Unlike traditional crystalline solar panels that are heavy, fragile, and require a large amount of structural penetrations, our **Building Integrated Photovoltaic (BIPV) is considered a "Penetration Free System"**. Typically, only one penetration is required for electrical wiring.

When it comes to generating electricity, compared to any other technology, Whirlwind Solar Energy Systems solar laminates (BIPV), achieve higher relative efficiency under high temperatures and low light.

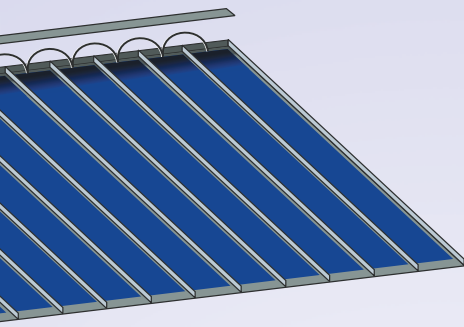


Pre-Designed Whirlwind Packages

System Size	Whirlwind SES Budget Cost (before incentives)	Minimum Roof Area Required (Square Feet)
1.5 kW	\$14,520 \$7.90/w	300
2 kW	\$18,470 \$7.90/w	390
2.5 kW	\$22,420 \$7.90/w	510
3 kW	\$25,786 \$7.90/w	580
4 kW	\$33,402 \$7.70/w	720
5 kW	\$41,344 \$7.60/w	1,000
10 kW	\$82,688 \$7.60/w	2,000
15 kW	\$107,222 \$7.30/w	3,000
30 kW	\$2214,445 \$7.30/w	6,000
60 kW	\$411,264 \$7.00/w	12,000
120 kW	\$856,800 \$7.00/w	24,000

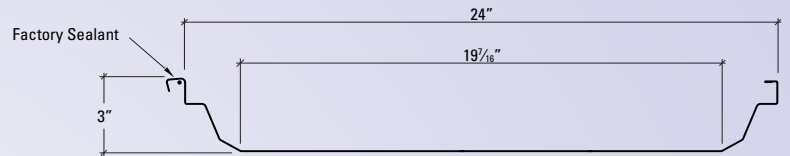
**Budget costs may vary depending on the project location and available incentives and rebates in a particular state.*



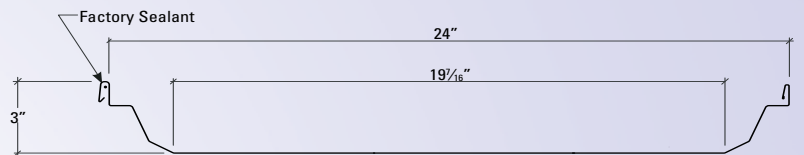


AVAILABLE PANEL PROFILES

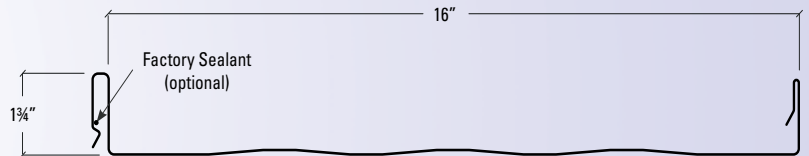
Super Seam Plus



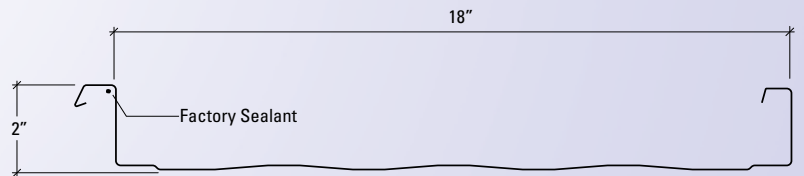
Super Seam-II



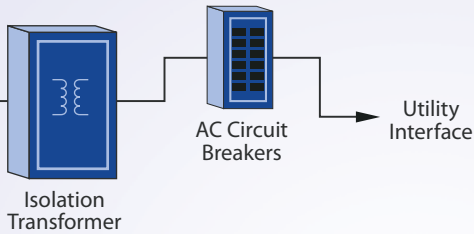
Weather Snap



Weather Lok*



*Requires a minimum order of 200 squares.



Electrical drawings are Included

When you specify Whirlwind Solar Energy Systems your package will include all schematics and specifications for wiring and electrical components for an electrical subcontractor (of your choice) to implement. Upon commissioning of the system, your Whirlwind SES will begin generating clean, renewable electric power that is sent directly into the power grid through the building's electric meter.

SYSTEM HIGHLIGHTS:

- Payback in 10 years or less in some states.
- 25 year warranty*
- Building Integrated, no roof penetrations.

* 25 years from the date of sale, produce at least 80% of the minimum power output rating warranty.



Whirlwind Solar Energy Systems are appropriate anywhere you would ordinarily specify a standing seam roof. If you have a project that can use the Whirlwind SES let us run the numbers for you to determine your ROI. Visit our website www.WhirlwindSteel.com to get started, or call your Whirlwind representative today.





*For more information please visit our website
www.WhirlwindSteel.com/pub/solar or call us at 800.324.9992.*

Whirlwind Solar Energy Systems is a division of Whirlwind Steel Buildings, Inc. Whirlwind Solar Energy Systems are engineered, manufactured, installed and commissioned in accordance with Energy Peak solar standing seam roof standards and electrical equipment design, utilizing UNI-SOLAR® brand thin-film solar laminates.