



The Standing Seam Metal Roof that Generates Clean, Renewable Electric Energy

# ATA-SOLAR™

## ATA-Solar Data Sheet

### PV Laminates

#### Type:

PVL-136 18'-0" Long  
 15.5" Wide  
 0.2" Thick  
 17.0 lbs  
 Rate Power: 136 Watt  
 Operating Voltage: 33.0 Volt  
 Operating Current: 4.13 Amp

PVL-68 9'-4" Long  
 15.5" Wide  
 0.2" Thick  
 8.7 lbs  
 Rate Power: 68 Watt  
 Operating Voltage: 16.5 Volt  
 Operating Current: 4.13 Amp

Nominal Output in kW	Rated Output in KW	Average Yearly kWh in Philadelphia, PA	PV List Price (Not including Metal Roof panels)	Min. Sq Ft Required*	Electrical Components (Budgetary Costs)	Estimated Installation Labor
1 kW	1.088 kW	1,420 kWh	\$7,130	294	\$1,870	\$2,000
1.5 kW	1.632 kW	2,130 kWh	\$10,690	420	\$2,225	\$2,500
2 kW	2.176 kW	2,840 kWh	\$14,144	525	\$2,160	\$3,300
2.5 kW	2.856 kW	3,713 kWh	\$16,850	672	\$2,405	\$4,000
3 kW	3.264 kW	4,270 kWh	\$18,931	756	\$2,505	\$4,500
4 kW	4.08 kW	5,304 kWh	\$22,440	924	\$2,885	\$5,100
5 kW	5.44 kW	7,120 kWh	\$27,209	1,218	\$3,657	\$6,200
10 kW	10.88 kW	14,250 kWh	\$54,400	2,373	\$7,164	\$11,000
15 kW	14.688 kW	19,240 kWh	\$73,440	3,192	\$9,095	\$15,000
30 kW	29.376 kW	38,480 kWh	\$146,880	6,300	\$17,540	\$30,000

The above prices are budgetary prices and are in addition to the metal roof panels and metal roof installation labor costs.

\*Minimum square footage is based on using PVL 136 (18'-0") on FLM165 Field-Lok Panel. Minimum roof area is based on "clean" roofs with no penetrations, parapets, or dormers.

The list price of the cable tray, color matching cap and end caps, grommets and S-5 mini clamps is \$15.00 per linear foot.

For an office building the average annual usage is 15-19 kWh per sq ft. Average home usage is 1,000 kWh per month (12,000 kWh yearly). A 3 kW system would typically provide about 1/3 of the total annual electricity needed for an average house.

As it currently stands, LEED points would be given based on the percentage of the building's energy consumption that is met with a renewable energy system. The LEED 2009 for New Construction and Major Renovations Rating System is as follows: Renewable Energy 1% = 1 point, 3% = 2 points, 5% = 3 points, 7% = 4 points, 9% = 5 points, 11% = 6 points, and 13% = 7 points.

ATA-Solar can be installed on a curved roof (FLM165 profile only).