Solar Wall® PV/T Solar Air Heating & Electricity



SolarWall® PV/T™ cogeneration system produces both heated air & electricity. It combines the high-efficiency SolarWall® air heating technology with photovoltaics to create a total energy solution with a payback period that is substantially less than a typical PV installation.

A PV/T system will generate 200-300% more energy (in the form of heat and electricity) than a standalone PV system. The patented combination of the two solar technologies in one footprint offsets both heating and electricity costs, and addresses the two main energy requirements in the building sector. This helps to reduce operating costs and maximize CO₂ displacement.

Features & Advantages

- Accelerates PV system ROI
- Cools the PV cells to reduce heat-related energy drop in output Performance gain up to 10%
- Captures PV heat energy for ventilation heating
- PV/T system has a total operating efficiency above 50%
- Maximizes usable roof space
- Huge reduction in CO₂ emissions

PV/T Value Proposition

Technology	Watt / m²
PV Electrical	100 Watts/m²
Output	(10 Watts/ft²)
Hybrid	300-400 Watts/m²
SolarWall® PV/T	(30-40 Watts/ft²)



Solar Duct™ PV/T Solar Air Heating & Electricity



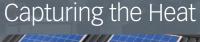


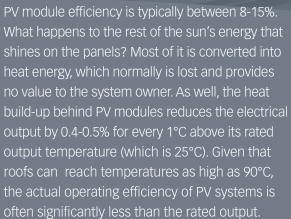
SolarDuct™ PV/T is a modular rooftop application of the PV/ thermal technology. The heat is drawn off the back of the PV modules and is ducted to the

nearest rooftop air handler. The 'excess heat' is then channeled into the building's HVAC system where it is used to offset the heating load.

The SolarWall® air heating system serves as the racking system needed to mount the PV modules. This also contributes to the cost-effectiveness of the cogeneration system.

The modular units are easy to install and are angled at an ideal orientation for maximum solar gain.





For standalone PV systems, high capital costs and low energy production result in very long paybacks. The PV/T cogeneration technology offers a solution that actually makes PV systems financially feasible in standard commercial, industrial, and institutional applications.

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