

ZEN® POWERVOLT 220 Wp



Photovoltaic solar installations
ROOF-INTEGRATED PV SYSTEM

The ZEN® Powervolt is the optimal solution for roof integrating a PV system. A high quality aluminium frame contains up to 5 PV-laminates. The system can be tailor-made to the wishes of the customer and to the constraints of the useful roof-space. Every laminate is made from highly efficient mono crystalline PV cells (6" wafer). Electrically, the ZEN® PowerVolt fits completely the Fronius IG en IG plus invertors. This combination is mostly used in a grid-connected system.

ZEN® PowerVolt guarantees a watertight finish on every sloping roof. The aluminium frame and the fitting flashing sets are entirely ZEN® Renewables products.

Physical guarantee of 10 years and a output guarantee of 25 years. (90 % after 10 years; 80 % after 25 years)

ZEN® PowerVolt: a state-of-the-art PV system

- 100 % European product (cells, laminates, PowerVolt frame, flashing sets)
- High efficiency: 220 Wpeak power per laminate - monocrystalline
- Modular system: horizontal installation: up to 3 laminates; vertical installation: up to 5 laminates.
- Standard outlook: black glass profiles and bottom main profile
- Frame-versions like the ZEN® STC thermal collector.
- Flashing sets according to combination of units and roof-type
- Waterproof finish, esthetically pleasing.



Technical specifications:

- Weight: 3 laminates: 64 kg; 4 laminates: 85 kg; 5 laminates: 105 kg
- Safety glass: Solatex 3.2 mm; backside: Isovolta
- Test and certification: Protection class II, IP 65, IEC 61215
- 54 monocrystalline PV cells, 156 mm x156 mm
- Tyco-Solarlok®, max. system voltage 1000 V DC,
- Tolerance: +/- 3%
- Temperature coefficient: Pmpp= -0.43 %/K Uoc= -116.1 mV/K Isc = +4.40 mA/K
- Standard test conditions (STC): AM1.5 / 1000 W pro m² / 25° C

ZEN® PowerVolt	Laminate efficiency	Wp/laminate	kWh/j 3 lam.*	kWh/j 4 lam.*	kWh/j 5 lam.*
PowerVolt 220	13.8 %	220 Wp	561 kWh	748 kWh	935 kWh

* at 100% southerly irradiation, no shadow and a 35° inclination

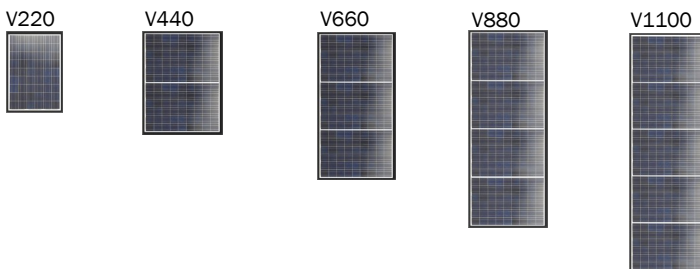
Range and configurations

The **horizontal** PowerVolts consist of up to 3 laminates. The fitting flashing sets take care of a completely waterproof roof integration.



dimensions	H220	H440	H660
Width (base)	1567 mm	2041 mm	3031 mm
Height	1051 mm	1567 mm	1567 mm

Vertical PowerBolts: the short top-side flashing guarantees a water-proof roof integration in all circumstances and positions. Because of its strong structure these ZEN® PowerVolts can contain up to 5 laminates.



dimensions	V220	V440	V660	V880	V1100
Width (base)	1051 mm	1567 mm	1567 mm	1567 mm	1567 mm
Height	1567 mm	2041 mm	3031 mm	4021 mm	5011 mm

