

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 and 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.

Product Warranty of 5 years and a output warranty 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: 220W peak 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

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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%/- 0%
- Temperature coefficient: P_{mp} = -0.43 %/K
U_{oc} = -116.1 mV/K I_{sc} = +4.40 mA/K
- Standard test conditions (STC): AM1.5 / 1000 W pro m² / 25° C

ZEN® PowerVolt	Laminate efficiency	Wp/laminate	kWh/Y 3 lam.*	kWh/Y 4 lam.*	kWh/Y 5 lam.*
PowerVolt 220	13,8 %	220 Wp	561 kWh	748 kWh	935 kWh

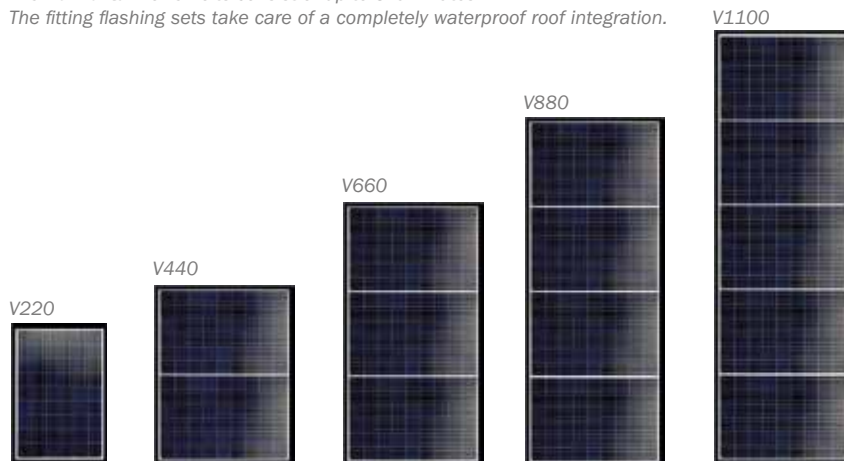
* at 100% southerly irradiation, no shadow and a 35° inclination

Range and configurations



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

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



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

Vertical PowerVolts: 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.

