

PHOTOVOLTAIC-MODULE

PEAK ON P220-60

Framed glass/tedlar module for grid-connected PV systems (205-235 Wp)

With the PEAK-ON series, the German-Taiwanese module manufacturer, a2peak, unites modern German manufacturing technology, years of systems engineering and application experience, mature production techniques, as well as excellent manufacturing know-how.

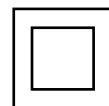
The peak of German technology - engineered in Germany - assembled in Taiwan.



- Tested and certified by the TÜV Rheinland
- 5,400 Pa testing load, extended test to IEC 61215 for increased wind and snow loads
- 4 mm thick, tempered, highly light-transmissive solar glass with an anti reflective structure
- 60 polycrystalline cells, each 156 mm x 156 mm, with a textured surface for homogeneous aesthetics with an evenly dark blue tone
- Module junction box, cabling and connections only from certified and well-known manufacturers
- Deep glass fitting frame (13.5 mm) for stability and security
- 4-sided extruded profile framework made of anodized Aluminum with drainage openings on each side
- Torsion resistant frame utilizing a screwless construction method with reinforced corners (corner keys)
- Frame distance from the cells optimized for high energy yields
- Clean, secure connections between glass and frame as well as between back and junction box through durable adhesive tapes which are resistant to ageing
- Consistent and reproducible quality through highly automatized manufacturing process
- 5 year guarantee
- Performance guarantee, 90% for 10 years and 80% for up to 25 years with objective terms
- Flash-data for each module measured with a high precision class Flasher
- Precise sorting according to performance (± 2.5 Wp)

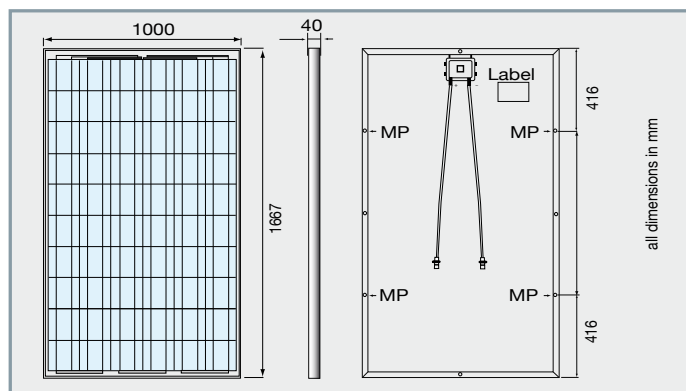
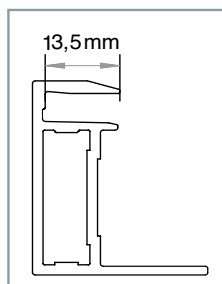


- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection



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Specification	P220-60						
typ. Nominal Power P_N @ STC*	205 Wp	210 Wp	215 Wp	220 Wp	225 Wp	230 Wp	235 Wp
typ. Module Efficiency η	12.3 %	12.6 %	12.9 %	13.2 %	13.5 %	13.8 %	14.1 %
typ. Nominal Voltage U_N @ STC*	29.22 V	29.58 V	29.91 V	30.2 V	30.5 V	30.84 V	31.14 V
typ. Nominal Current I_N @ STC*	7.01 A	7.12 A	7.2 A	7.28 A	7.37 A	7.48 A	7.55 A
typ. Open Circuit U_{OC} @ STC*	36.2 V	36.5 V	36.6 V	36.9 V	37.0 V	37.32 V	37.5 V
typ. Short Circuit I_{SC} @ STC*	7.63 A	7.7 A	7.77 A	7.85 A	7.89 A	8.0 A	8.02 A
max. Tolerance of P_N ***	±3 %						
typ. Temperature Coefficient of P_N	-0.46 %/K						
typ. Temperature Coefficient of U_{OC}	-0.129 V/K						
typ. Temperature Coefficient of I_{SC}	4.4 m A/K						
Max. System Voltage	1000 V						
IP Protection Level	IP 65						
Reverse Current Power Rating I_R **	16 A						
Module Technology	Glass-foil-laminate with aluminium frame						
Module Design	High transparency solar glass (tempered), 4 mm						
	Embedding: EVA						
	Backside Foil: black or white						
No. and Type of Solar Cells	60 polycrystalline solar cells, 156 mm x 156 mm						
Cables and Connections	Junction box with MC 4 Plug connector cables, 1 x 4 mm ² , Length: each 1.0 m						
Bypass-Diodes	3						
Dimensions (L x W x H)	1667 x 1000 x 40 [in mm]						
Weight	ca. 23 kg						
Operating Temperature	-40 ... +80 °C						
Ambient Temperature Range	-40 ... +45 °C						
Certificates/Qualifications	IEC 61215 Ed.2 / IEC 61730						

* STC: Standard Test Conditions, measurement conditions: Radiation strength 1000 W/m², spectral distribution AM 1.5, temperature 25 ± 2°C, in accordance with EN 60904-3

** Reverse current power rating: Operation of more than 3 strings in parallel is only permitted by using a string fuse with a max. release current of I_R

*** The given electrical data are nominal values which account for basic measurements and manufacturing tolerances of ±10%, with the exception of P_N . The classification is performed according to P_N .