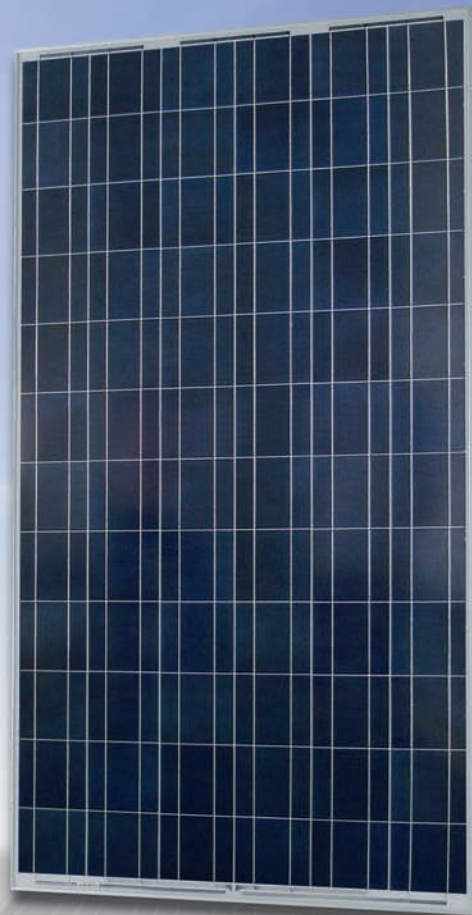


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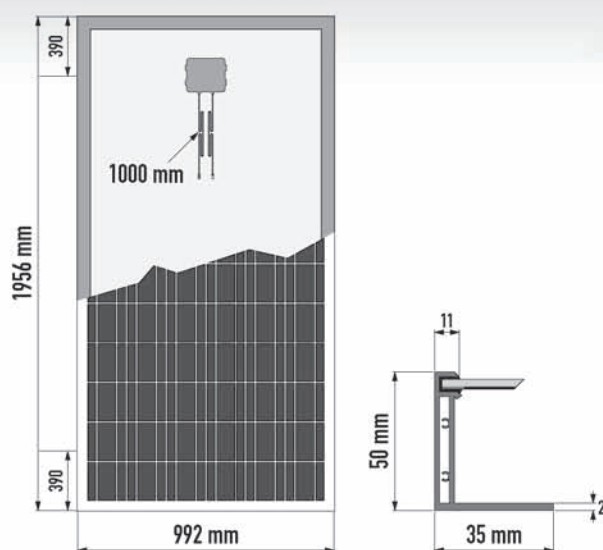
Solartechnik GmbH

BAUER BS 6PL22

270 W - 290 W



Polycrystalline solar module



Dimensions

Length	1956 mm
Width	992 mm
Height	50 mm
Weight	27 kg

Performance data

- power output tolerance +3/-3 %
- min. 90% output over a 10-year period
- min. 80% output over a 25-year period
- 10 years product guarantee

Test parameters (excerpt)

- Simulation of temperature cycles (200 cycles ranging from -40°C to +85°C)
- Vapour heat test in the climatic chamber (1.000 hours at 85°C and 85% relative humidity)
- Front and back panel load test (simulated wind load of 2.400 Pa, equivalent to 2.400 N/m² or 245 kg/m²)
- Simulated impact of hailstones (25 mm in diameter at 23 m/s from a distance of one meter)

Technical specifications

Frame	Silver, torsionally rigid, aluminium alloy mounting frame
Cells	72 polycrystalline cells (156 mm x 156 mm) connected in series
Connectors	Double insulated, UV-resistant 4 mm ² cable with weatherproof solar plugs
Diodes	3 bypass diodes protecting the module when in shade
Assembly	Front: highly translucent, toughened glass Back: white TPT film, embedding material: EVA

Electrical characteristics	BS-270-6PL22	BS-280-6PL22	BS-290-6PL22
Nominal power P (Wp)	270	280	290
Voltage at Pmax Vmp (V)	35,30	35,53	36,09
Current at Pmax Imp (A)	7,65	7,88	8,04
Short-circuit current Isc (A)	8,33	8,52	8,57
Open-circuit voltage Voc (V)	44,07	44,28	44,76
Efficiency (η)	13,9%	14,4%	15,0%
Max. system voltage V (V)	1.000		
Temperature coefficient of Isc	+0,055 %/K		
Temperature coefficient of Voc	-0,34 %/K		
Test condition (STC)	1.000 W/m ² , 25°C, AM 1,5		
NOCT	45°C ± 2°C		

Qualifications and certificates

- IEC 61215
- IEC 61730



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Polycrystalline module (detailed view)

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