

BAUER

Solartechnik GmbH

Modules

BS-170-5M6.1 **BS-175-5M6.1**
BS-180-5M6.1 **BS-185-5M6.1**
BS-190-5M6.1

BAUER monocrystalline solar modules are manufactured using up-to-the-minute methods of production to achieve a maximum yield of energy.

The cells are mounted between a cover of toughened glass and EVA film and backed and sealed with PET film to protect them against extreme climatic conditions and to guarantee a constant level of performance. The laminate is assembled in a stable, easily mountable aluminium frame.

Performance data

Nominal output	170 W – 190 W
Power output tolerance	+3/–3 %
Warranted minimum power	■ Min. 90% output over a 10-year period ■ Min. 80% output over a 25-year period ■ 5 years product guarantee



Module

Length	1580 mm
Width	808 mm
Height	46 mm
Weight	15.5 kg

Test parameters (excerpt)

- Simulation of temperature cycles: 200 cycles ranging from –40°C to +85°C and back
- 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) at 2,400 Pa, equivalent to 2,400 N/m² or 245 kg/m²
- Simulated impact of hailstones measuring 25 mm in diameter at 23 m/s from a distance of one metre

Qualifications and certificates

- IEC 61215
- IEC 61730
- CE



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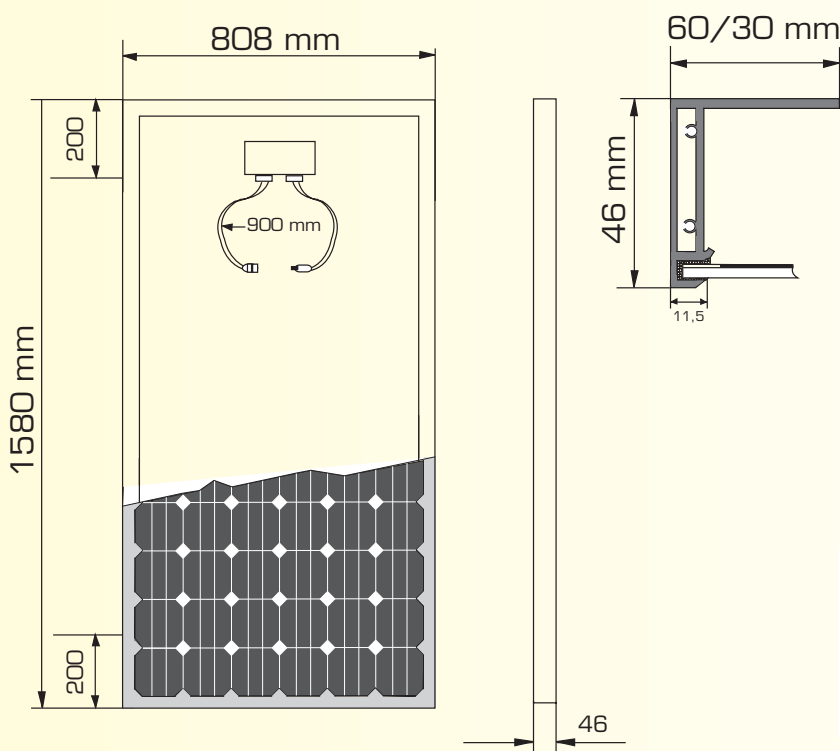
Technical specifications

Frame	Silver, torsionally rigid, aluminium alloy mounting frame
Cells	72 monocrystalline cells (125 mm x 125 mm), connected in series
Connector cable	Double insulated, UV-resistant 4 mm ² cable with weatherproof solar plugs
Diodes	3 bypass diodes protecting the module when in shade
Module assembly	Front: highly translucent, strong, toughened glass Back: white TPT film, embedding material: EVA

Electrical characteristics

Type	BS-170-5M6.1	BS-175-5M6.1	BS-180-5M6.1	BS-185-5M6.1	BS-190-5M6.1
Nominal power P (Wp)	170	175	180	185	190
Voltage at Pmax Vmp (V)	35.90	36.45	36.85	37.10	37.44
Current at Pmax Imp (A)	4.74	4.80	4.89	4.99	5.08
Short-circuit current Isc (A)	5.18	5.22	5.31	5.36	5.49
Open-circuit voltage Voc (V)	44.45	44.95	45.20	45.35	45.51
Max. system voltage V (V)	1,000				
Temperature coefficient of Isc	+0.038%/K				
Temperature coefficient of Voc	-0.35%/K				
Test condition (STC)	1,000W/m ² , 25°C, AM 1.5				
NOCT	50°C ± 2°C				

Diagram



www.LPelectric.ro

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