

**Delivery only in
positive tolerance!**

BAUER

Solartechnik GmbH



Module

Length	1580 mm
Width	808 mm
Height	35 mm
Weight	16 kg

Modules

BS-180-5M7.1 **BS-185-5M7.1**
BS-190-5M7.1 **BS-195-5M7.1**
BS-200-5M7.1

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 180 W – 200 W
Power output
tolerance +3/–0 %
Warranted
minimum power ■ Min. 90 % output over
 a 12-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 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 5,400 Pa, equivalent to 5400 N/m² or 550 kg/m²
- Simulated impact of hailstones measuring 25 mm in diameter at 23 m/s from a distance of one meter

Qualifications and certificates

- IEC 61215
- IEC 61730 –1, –2: 2004
EN 61730 –1, –2: 2007
- UL (170–185 Wp)
- MCS



The Certification Mark for Onsite Sustainable Energy Technologies



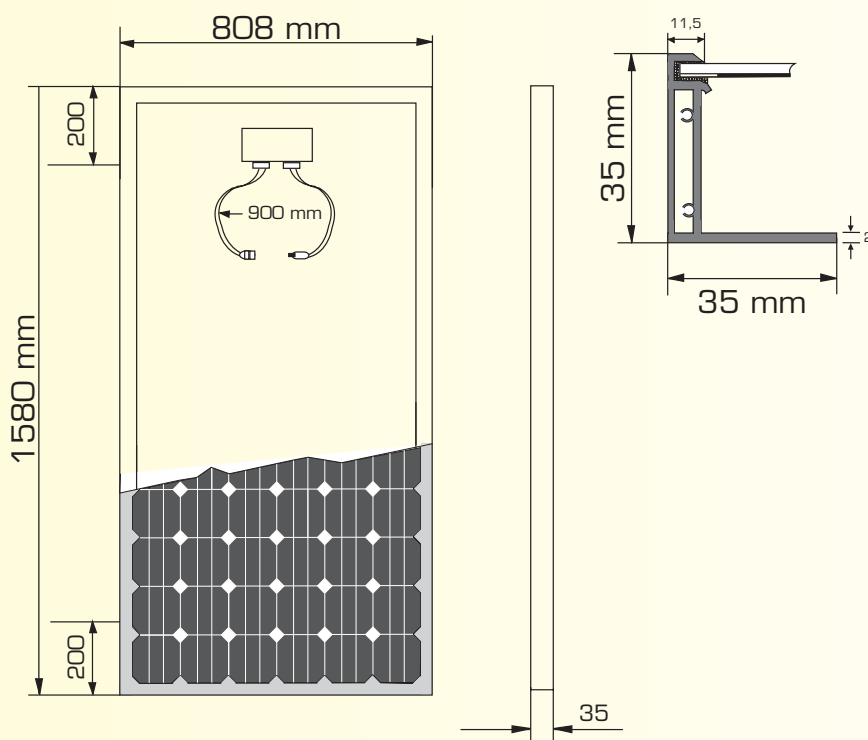
Technical specifications

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-180-5M7.1	BS-185-5M7.1	BS-190-5M7.1	BS-195-5M7.1	BS-200-5M7.1
Nominal power P (Wp)	180	185	190	195	200
Voltage at Pmax Vmp (V)	36.3	36.5	36.7	37.4	38.2
Current at Pmax Imp (A)	4.96	5.07	5.18	5.21	5.24
Short-circuit current Isc (A)	5.23	5.35	5.48	5.53	5.65
Open-circuit voltage Voc (V)	45.2	45.4	45.7	45.8	46.0
Efficiency (η)	14.1 %	14.5 %	14.9 %	15.2 %	15.6 %
Max. system voltage V (V)	1,000 (UL 600 V)				
Temperature coefficient of Isc	+0.06 %/K				
Temperature coefficient of Voc	-0.34 %/K				
Test condition (STC)	1,000 W / m ² , 25°C, AM 1.5				
NOCT	47°C ± 2°C				

Diagram



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