

BAUER

Solartechnik GmbH



Module

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

Modules

BS-175-5M7.1 **BS-180-5M7.1**
BS-185-5M7.1 **BS-190-5M7.1**

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	175 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 ■ 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 metre

Qualifications and certificates

- IEC 61215
- IEC 61730 –1, –2: 2004
EN 61730 –1, –2: 2007
- CE



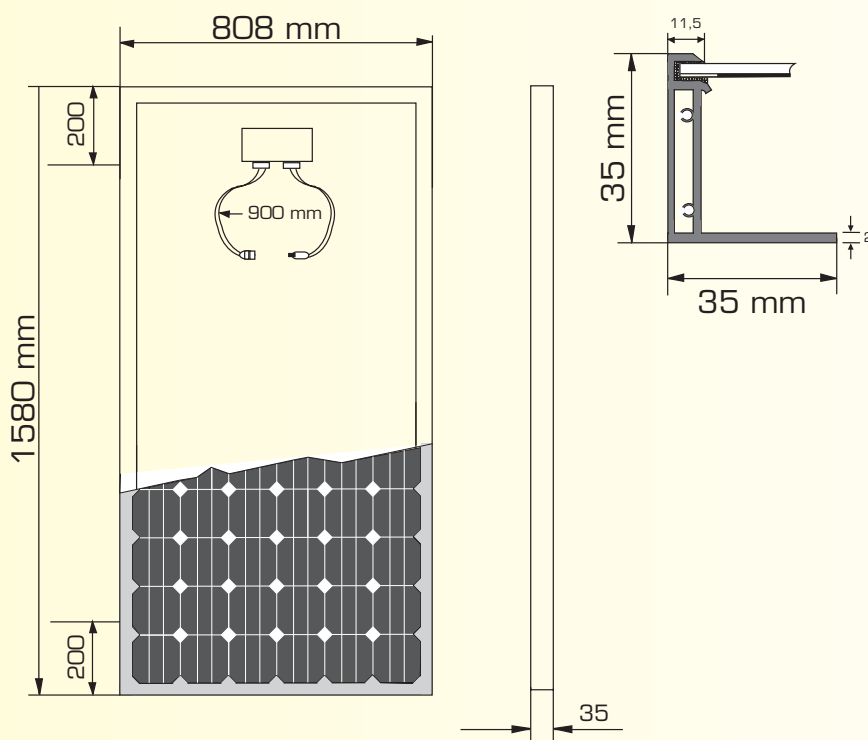
Technical specifications

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-175-5M7.1	BS-180-5M7.1	BS-185-5M7.1	BS-190-5M7.1
Nominal power P (Wp)	175	180	185	190
Voltage at Pmax Vmp (V)	36.1	36.3	36.5	36.7
Current at Pmax Imp (A)	4.85	4.96	5.07	5.18
Short-circuit current Isc (A)	5.14	5.23	5.35	5.48
Open-circuit voltage Voc (V)	45.0	45.2	45.4	45.7
Max. system voltage V (V)	1,000			
Temperature coefficient of Isc	+0.06%/K			
Temperature coefficient of Voc	-0.34%/K			
Test condition (STC)	1,000W/m ² , 25°C, AM 1.5			
NOCT	49°C ± 2°C			

Diagram



LP ELECTRIC
systems
www.LPelectric.ro

Str: Petresti nr:17
510184, Alba Iulia
Romania

ecovolt
O idee inteligenta pentru energie!
www.Ecovolt.ro

Tel: 0748.210.688
Tel: 0258.81.80.81
Florin Fleseriu

BAUER

Solartechnik GmbH

Hinter der Mühl 2
55278 Selzen
Germany

Tel.: +49(0)6737 - 80 81-0

Fax: +49(0)6737 - 80 81-10

info@bauer-solartechnik.de

www.bauer-solartechnik.de