GermanSolar[™]

GermanSolar

Premium Line

Outstanding features of the Premuim Line by GermanSolar

- Only high-performance cells which have been thoroughly tested are used
- Use of 4 mm special-purpose glass
- Load capacity: 5400 Pa
- Can withstand extreme weather conditions (hail, snow, ice, sharply fluctuating temperatures, etc.)
- Outstanding design thanks to anthracite powder-coated solar panel frame and white backsheet
- Flash data for every panel
- Low chance of mismatching due to extremely low power tolerance of +/-3 %









Monocrystalline | 60 cells GSM6-220/225/230/235/240/245/250

Dimensions 1637 x 987 mm Thickness 40 mm Weight Approx. 21.8 kg Laminate/glass 5.8mm /4mm ESG extra-white tempered safety glass, impact resistance in accordance with DIN 52337 Coloration White backsheet Deformation 1.2° at the module level Surface load 5400 Pa max.

Technical data

Mechanical data

The following calculations are based on the electrical data from 60 monocrystalline cells (156 x 156 mm).

Model GSM6	220	225	230	235	240	245	250
Power rating Pmpp (Wp)	220	225	230	235	240	245	250
Rated current Impp (A)	7.35	7.43	7.52	7.59	7.72	7.81	7.89
Rated voltage Vmpp (V)	29.94	30.36	30.66	30.97	31.08	31.39	31.68
Short-circuit current Isc (A)	8.16	8.21	8.26	8.31	8.35	8.39	8.45
Open-circuit voltage Voc (v)	37.02	37.20	37.29	37.35	37.38	37.47	37.56
Module efficiency (%)	13.62	13.96	14.27	14.55	14.85	15.17	15.47

Temp. coeff. P	–0.45 %/K
Temp. coeff. Is	+1.17mA/K
Temp. coeff. Voc	-132.6mV/K
Bypass diodes	3 in the junction box
Junction box	Certified special box with tension spring clamps
Connector	1 m, including plug-in system
Maximum permissible values	System voltage: 1000 V Rated power tolerance: +/-3% Operating temperature range: -40 to +85°C
Protection class	2

The product manufacturing process for PV generator components if based on glass film technology. In this process, the high quality of the laminate structure is achieved thanks to the composite film on the back side of the panel and the completely sealed edges. This ensures that the panel will have an extremely long life.

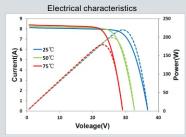
Certification

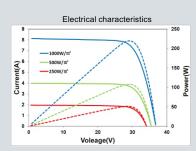
This special laminate is certified in accordance with IEC standards 61215 and 61730. ID: 0000023436 TÜV Rheinland.

Quality

The production facility is TÜV-, MCS-, CE-, CEC-, CSA- and ISO 9001:2000-certified, and validated in accordance with EMAS II.

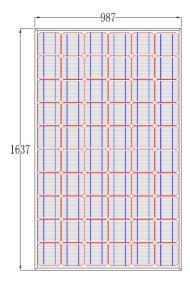
Regular individual inspections ensure that the products' electrical, optical and mechanical properties are always of the highest quality.

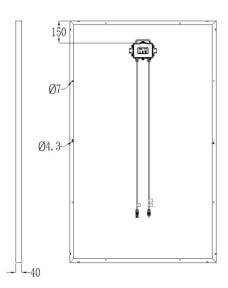




Subject to technical changes

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Product shipped with the cables required to connect the panel (connector and plug-in system)

Length: 100 cm

All electrical values are based on perpendicular solar irradiation at 1000 W/m² and a temperature of 25°C (normal conditions with AM = 1.5).









