GermanSolar™



PowerLine black

Outstanding features of the PowerLine by GermanSolar:

MADE IN GERMANY

- Flash-Data for every panel
- Low chance of mismatching due to extremely low power tolerance of +/-3 %
- Positive classification -0/+4,99 Watt
- Individuell testing and surveying, quality assurance by permanent production control incl. EL-test
- Highest stability thanks to aluminium frame made from a double-walled hollow chamber profile
- Outstanding design thanks to black powder-coated solar panel frame and black backsheet
- Chamfered frame – resulting in improved water drainage and snow run-off
- Three bus bar design guarantees high output power from the solar modules
- Good performance by diffused sunlight
- High stability, Load capacity: 5400 Pa (Snowload)
- **Made in Germany**

- Monocrystalline | GSM6-245/250/255/260-PO60B

WARRANTY ON MATERIALS 10 YEARS

POWER WARRANTY 12 YEARS GUARANTEED TO OPERATE AT 90% OF POWER

POWER WARRANTY 25 YEARS GUARANTEED TO OPERATE AT 80% OF POWER

www.germansolar.com

Version 1.3.2012

Mechanical data

- Dimensions 1.650 x 990 mm
- Thickness 40 mm
- Weight ca. 19 kg
- Laminate/glass 3,2mm extra tempered safety glass
- black powder-coated
- Deformation 1.2° at the module level
- Surface load 5400 Pa max.

Technical data

The following calculations are based on the electrical data from 60 monocrystalline cells.

Type	GSM6-245-PO60B	GSM6-250-PO60B	GSM6-255-PO60B	GSM6-260-PO60B
Power rating Pmpp	245 Wp	250 Wp	255 Wp	260 Wp
Rated current Impp	8,09 A	8,11 A	8,21 A	8,39 A
Rated voltage Vmpp	30,58 V	31,14 V	31,27 V	31,45 V
Short-circuit current	8,68 A	8,71 A	8,79 A	8,93 A
Open-circuit voltage Voc	36,98 V	37,04 V	37,28 V	38,16 V
Module efficiency	14,70 %	15,00 %	15,30 %	15,60 %

NOCT	+47 °C
Temp.coeff. P	-0,451 %/K
Temp.coeff. Is	+0,045 %/K
Temp.coeff. Voc	-0,325%/K
Bypass diodes	3
Junction box	IP 65
Connector	2 x 1,00 m, 4 mm², MC 4 m plug-in system
Maximum	Sytem voltage 1.000 V
permissible values	Rated power tolerance +/-3 %
	Classification: -0/+4,99 W
	Operating temp.range -45 bis +45 °C
Protection class	2

The product manufacturing process for solar module components is based on glass - laminate - technology. In this process, the high quality of the laminate structure is achieved thanks to the laminate and the completely sealed edges. This ensures that the panel will have an extremely long life.

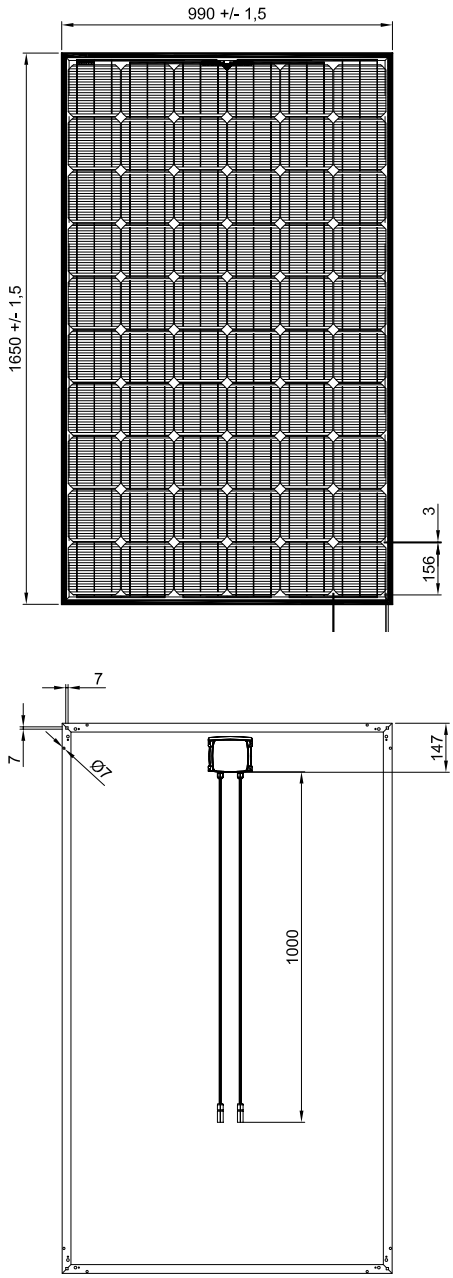
Qualification

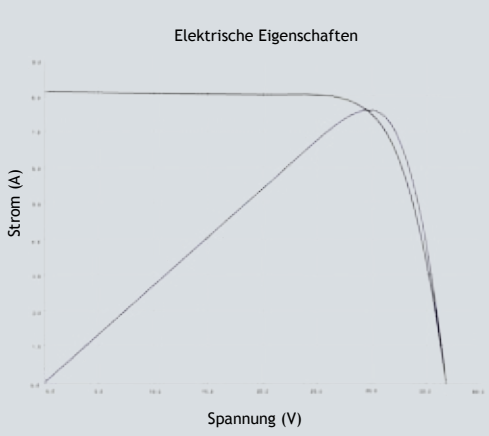
This special laminate is certified in accordance with IEC standards 61215 2nd. Ed. and 61730. ID:0000023436 TÜV Rheinland.

Quality

The production facility is TÜV-, MCS-, IEC-, CE-, FSEC-, 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.

All electrical values are based on perpendicular solar irradiation at 1.000 W/m2 and a temperature of 25 °C (normal conditions with AM = 1,5).





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