

Certification and warranty:

- TÜV-certified in accordance with IEC 61215 Ed2, IEC 61730 including protection class II
- 25 year performance guarantee on 80 % of actual power output
- 10 year performance guarantee on 90 % of actual power output
- 10 years product warranty

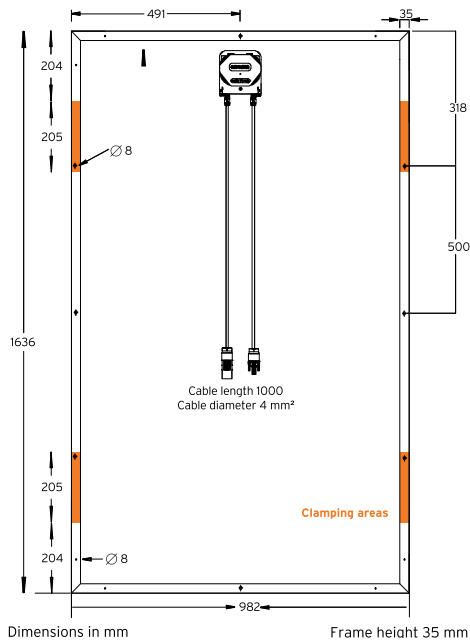


**10 YEARS
Product Warranty!**

September 2011

Advantages at a glance

- 60 polycrystalline high performance cells
- Positive sorting
- 10 years product warranty
- Highly transparent solar glass
- Connection box and plugs by Tyco
- ISO9001-certified module production
- Front side load capacity of 5400 Pa, tested in accordance with IEC 61215



Perfection in Detail

Our solar modules are exclusively delivered with low performance tolerances and are characterized by their high energy yield.

The module's front side consists of thermally pre-stressed solar glass offering maximum light transmission and weather protection.

The hollow chamber frame consists of a buckling resistant, non-corrosive aluminium-alloy. Thanks to their easy recyclability the modules are in accordance with all effective environmental laws.

Module Technology

Material

- Glass-foil-laminate with 60 polycrystalline high performance solar cells 6"+
- Low iron hardened solar glass, 3,2mm
- Encapsulation with UV-stable, high-transparent ethylene vinyl acetate
- Connection box/plugs: Tyco
- Anodised aluminium, 35 mm, hollow chamber

Performance Classes

	230 W	235 W	240 W
Nominal voltage U_{mmp}	30,2 V	30,3 V	30,4 V
Nominal current I_{mmp}	7,61 A	7,76 A	7,90 A
Off-load voltage U_{oc}	36,7 V	37,1 V	37,2 V
Short-circuit current I_{sc}	8,16 A	8,31 A	8,46 A
Rate of efficiency	14,3 %	14,6 %	14, %

Technical Data

AS Seginus SE P

Nominal power output	230 W
Performance sorting	Positive sorting
Nominal voltage U_{mmp}	30,2 V
Nominal current I_{mmp}	7,61 A
Off-load voltage U_{oc}	36,7 V
Short-circuit current I_{sc}	8,16 A
Maximum reverse current I_r	20 A
Maximum system voltage	1000 V
Rate of efficiency	14,3 %
Temperature coefficient U_{oc}	-0,35 %/K
Temperature coefficient I_{sc}	+0,06 %/K
Temperature coefficient performance	-0,46 %/K
NOCT	46 °C
Weight	19,0 kg
Application class	A
Temperature range	-40° bis +90 °C
IEC 61215 Ed2, IEC 61730 certified	TÜV Rheinland

Since the calibration laboratories generally measure with an accuracy of $\pm 3\%$ our measurements are also within these limits. Subject to modifications due to technical progress.

Competent specialist

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