

Product features

- High-performance photovoltaic modules made of polycrystalline silicon solar cells with module efficiencies of up to 14,8 %
- Bypass diodes which minimise the loss in output when shading occurs
- Use of safety glass for long-term weather protection, EVA plastic, weather protection film, as well as anodised aluminium frame
- TÜV-Certified, Protection Class II, CE Marking
- Plus tolerance (0/+3 %)
- 25 years performance guarantee
- 12 years product guarantee

**EDITION 2012
MORE POWER**

SC 230-60P
SC 235-60P
SC 240-60P



Periodic Inspection
IEC 61215 (1000 V)
IEC 61730
Protection Class II (1000 V)
CE Marking



SunClass® high-performance PV modules

Whether for your house, your company or your major project: perfected production technologies, using premium materials and employing efficient cells make SunClass solar modules the right choice for every project size.



Electrical data

Maximum Power (0/+3 %) (P_{max})	230 Wp	235 Wp	240 Wp
Voltage at point of max. power (V_{mpp})	29,5 V	29,7 V	29,9 V
Current at point of max. power (I_{mpp})	7,8 A	7,92 A	8,03 A
Open-circuit voltage (V_{oc})	36,9 V	37,1 V	37,3 V
Short-circuit current (I_{sc})	8,22 A	8,32 A	8,41 A
Maximum system voltage	1000 V	1000 V	1000 V
Module efficiency (η_m)	14,2 %	14,5 %	14,8 %
STC standard test conditions	Irradiance: 1000 W/m ² AM: 1,5 Temperature: 25 °C		

Temperature coefficients

αP_m	- 0,5 % / °C
αI_{sc}	0,043 % / °C
βV_{oc}	- 0,34 % / °C

Operating temperature	- 40 °C to + 85 °C
Hail	up to 25 mm hailstone size at 80 km/h
Surface max. stress	540 kg/m ²



Mechanical data

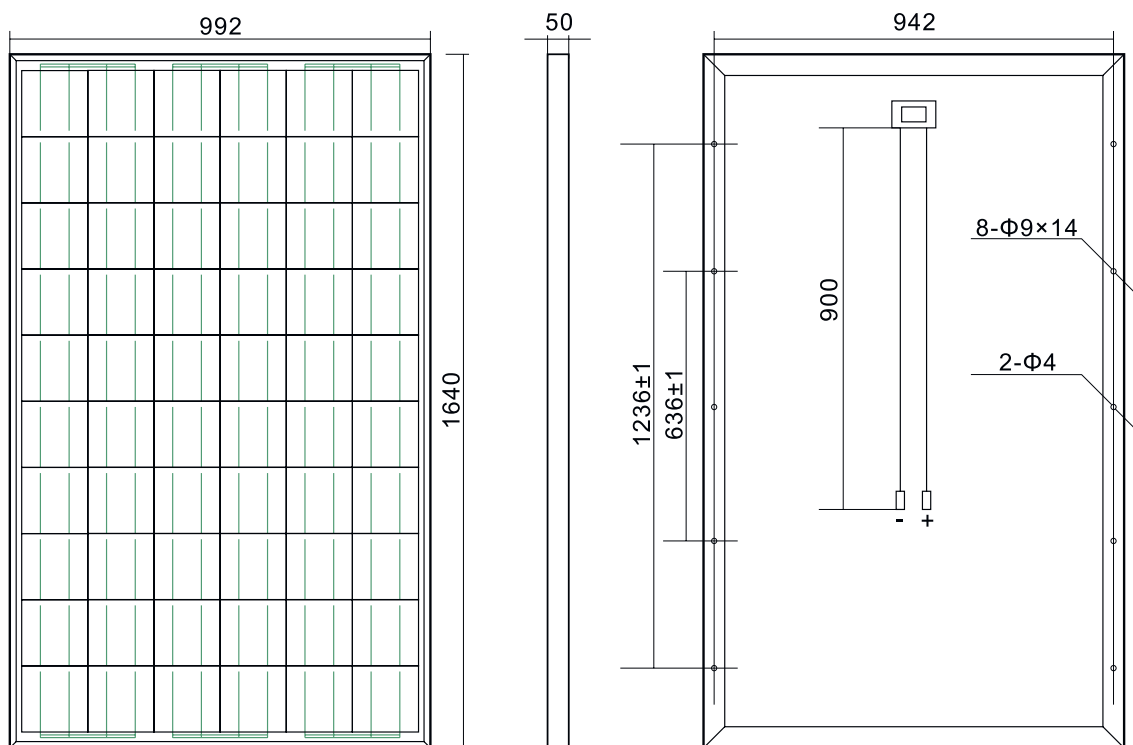
Length	1640 mm
Height	992 mm
Width	50 mm
Weight	20 kg
Cable	9000 mm (\varnothing 4mm ²)
Glass	Tempered-glass (3,2 mm)
Foil	EVA
Backsheet	TPT/TPE
Frame	Aluminium anodized
Cell	60 pcs., size: 156 x 156 mm (6")
Junction	IP65 junction box with bypass diodes
Connector	MC-4 compatible

Guarantee

Product guarantee	12 years
Performance guarantee	10 years for a power output of 90 %, 20 years for a power output of 83 %, 25 years for a power output of 80 %

Certifications / Qualifications

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Technical specifications as at August 10th 2011, Indemnification: Errors and omissions excepted.