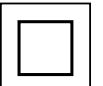
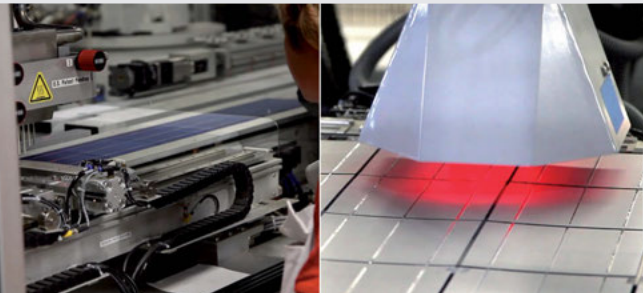
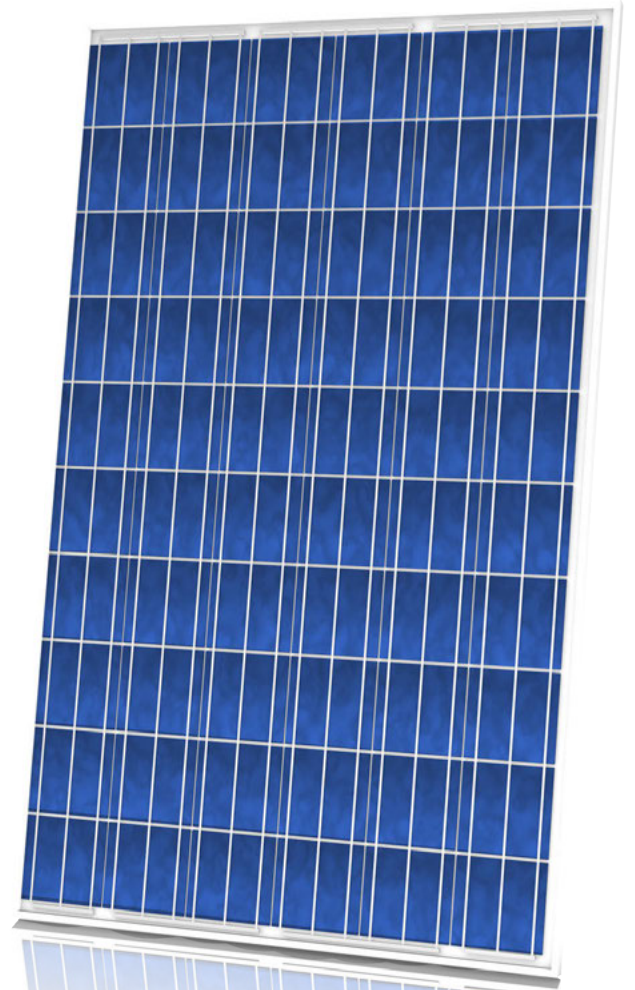


**Product features**

- Use of high quality cells from established manufacturers as well as 3 busbar technology for optimized power take-up and higher power yields
- 3,2 mm thick special solar-glass ensures maximum transmission values
- High level of stability of the anodized aluminium frame through own-developed aluminium frame with integrated drain channels and venting holes
- Quality assurance through individual examination including electroluminescent inspection
- TÜV-certified according to IEC 61215 Ed.2 and IEC 61730 as well as the meeting of the demands of „Conta Energia IV“
- Positive tolerance (0/+4 %)
- 25 years performance guarantee, 10 years product guarantee

**PREMIUM EDITION**  
**100 % MADE IN GERMANY**

SC 230-60P GER | SC 235-60P GER | SC 240-60P GER



**SunClass® high-performance solar modules from German production**

The selection of high-quality components, the use of most modern production technologies according to German quality standards and extensive production controls make SunClass® solar modules of the Premium Edition the right choice for every project size.



## Electrical data

Maximum Power (0/+4 %) ( $P_{max}$ )	230 Wp	235 Wp	240 Wp
Nominal Voltage ( $V_{mpp}$ )	29,8 V	30,05 V	30,2 V
Nominal Current ( $I_{mpp}$ )	7,72 A	7,86 A	7,96 A
Open circuit Voltage ( $V_{oc}$ )	36,9 V	37,15 V	37,2 V
Short circuit Current ( $I_{sc}$ )	8,25 A	8,31 A	8,44 A
Maximum system voltage	1000 V	1000 V	1000 V
Module efficiency ( $\eta_m$ )	13,8 %	14,1 %	14,4 %
STC - Standard Test Conditions	Irradiation: 1000 W/m <sup>2</sup> AM: 1,5 Temperature: 25 °C		

## Mechanical data

Length	1650 mm
Height	1010 mm
Width	42 mm
Weight	19 kg
Connection cables	2 x 100 mm, Ø 4 mm <sup>2</sup> MC 4 connectors or compatible
Glass	3,2 mm (toughened)
Encapsulation	EVA
Backsheet	PET (Polyester fleece multi-layer)
Frame	Aluminum anodized
Solar cell	156 x 156 mm (6"), 60 polykrystalline cells
Junction	IP 65, 3 bypass diodes
Module construction	Glass-film-laminat

## Temperature coefficients

$\alpha_{Pm}$	- 0,43 % / K
$\alpha_{Isc}$	+ 0,05 % / K
$\beta_{Voc}$	- 0,35 % / K

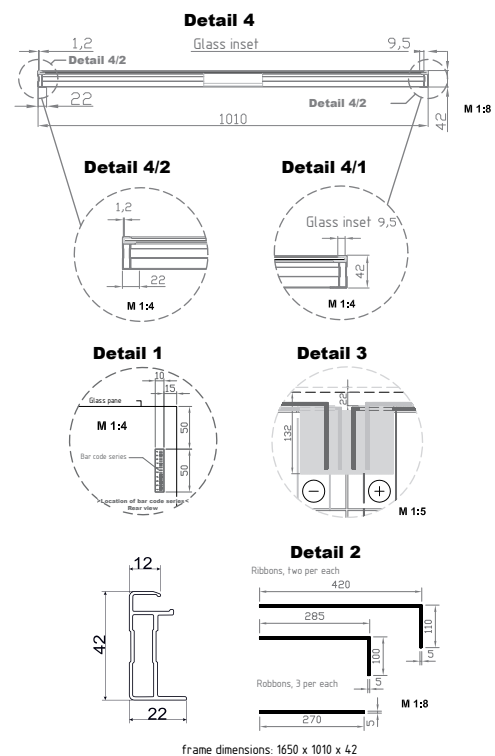
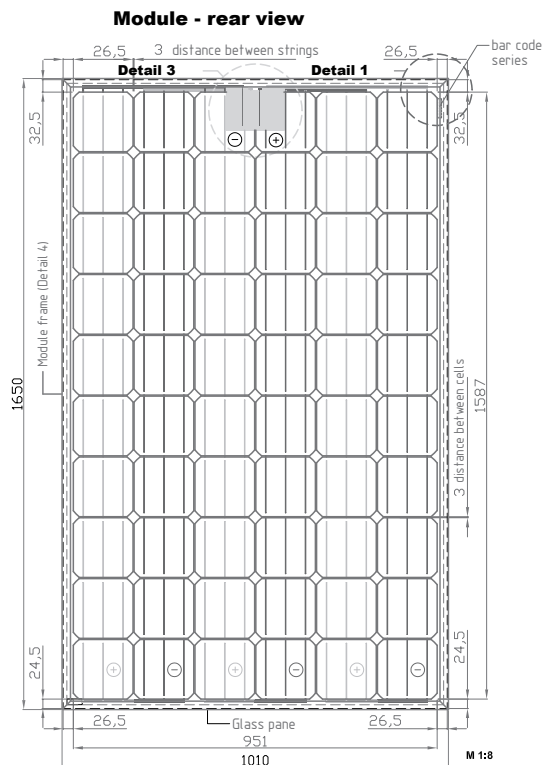
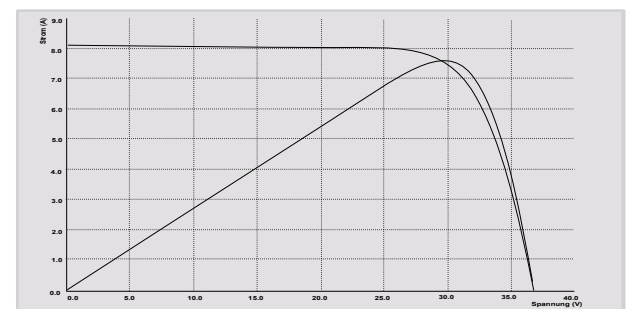
## Application areas

Operating temperat.	- 45 °C bis + 80 °C
Hail	up to 25 mm hailstone size at 80 km/h
Surface max. stress	540 kg/m <sup>2</sup>

## Guarantee

Product guarantee	10 Jahre
Performance guarantee	12,5 years for a power output of 90 % * 25 years for a power output of 80 % * *pursuant to a valid warranty deed

## Voltage/current characteristic



Module data as at August 1st 2011, Indemnification: Errors and omissions excepted.