

Play it safe



**Frameless  
glass-glass  
modules**

Vision Modules  
MADE IN GERMANY

**Vision 60 poly | frameless**  
**Vision 60 poly black | frameless**

240 W • 245 W • 250 W • 255 W • 260 W

- Perfect for lower installation angles
- Higher yields thanks to self-cleaning effect
- 20-year product warranty
- 30-year linear performance warranty



Identical to the „S-Class Vision“ module  
as produced by former Centrosolar  
Sonnenstromfabrik GmbH until July 2014.

# Vision 60

poly | frameless, poly black | frameless

Electrical data under STC (Standard Test Conditions: 1000 W/m<sup>2</sup>, 25 °C, AM 1.5)

Rated power	$P_{MPP}$	240 W	245 W	250 W	255 W	260 W
Sorting limits of performance		0/+5 W	0/+5 W	0/+5 W	0/+5 W	0/+5 W
Voltage	$U_{MPP}$	29.40 V	29.55 V	29.73 V	29.87 V	30.06 V
Open circuit voltage	$U_{OC}$	37.32 V	37.49 V	37.62 V	37.69 V	37.79 V
Current	$I_{MPP}$	8.17 A	8.30 A	8.41 A	8.54 A	8.65 A
Short-circuit current	$I_{SC}$	8.72 A	8.83 A	8.91 A	8.99 A	9.07 A
Efficiency		14.6 %	14.9 %	15.2 %	15.5 %	15.8 %

Measurement tolerances STC: +/- 3% ( $P_{MPP}$ ); +/- 10% ( $I_{SC}$ ,  $U_{OC}$ ,  $I_{MPP}$ ,  $U_{MPP}$ )

Electrical data at 800 W/m<sup>2</sup>, NOCT (46°C +/- 2K), AM 1.5

Power in MPP	$P_{MPP}$	180 W	184 W	187 W	191 W	195 W
Voltage	$U_{MPP}$	27.60 V	27.74 V	27.91 V	28.03 V	28.19 V
Open circuit voltage	$U_{OC}$	35.12 V	35.28 V	35.39 V	35.44 V	35.53 V
Current	$I_{MPP}$	6.51 A	6.61 A	6.70 A	6.81 A	6.90 A
Short-circuit current	$I_{SC}$	7.02 A	7.11 A	7.17 A	7.23 A	7.30 A

The efficiency decreases by approximately 3% compared to the efficiency under STC at an irradiation of 200 W/m<sup>2</sup> and 25 °C.

Temperature data

Power temperature coefficient	$T_K(P_{MPP})$	-0.43 %/K
Voltage temperature coefficient	$T_K(U_{OC})$	-0.35 %/K
Current temperature coefficient	$T_K(I_{SC})$	0.03 %/K

Further information

Number of cells	60
Max. system voltage	1000 V
Reverse current loading capability	15 A
Front cover	Special hardened low-iron glass with anti-reflex coating 2 mm
Back cover	poly   frameless poly black   frameless Special hardened transparent glass 2 mm Special hardened black glass 2 mm
Module connection	Junction box 3 bypass diodes IP 65 no potting, 2 x approx. 1 m solar cable Ø 4 mm <sup>2</sup> , plug connector KSK4 IP 65
Snow load*	Up to 2400 Pa $\hat{=}$ 245 kg/m <sup>2</sup>

20-year product warranty, 30-year linear performance warranty according to our additional warranty conditions for solar power modules of the "Vision" product series, which we will gladly send you

Subject to technical modifications with corresponding follow-up certifications. Errors excepted.

Slight colour variation of modules is possible due to specific conditions in production.

\*Load tested according to EN IEC 61215 (ed. 2) In compliance with the installation and operating manual.

Certifications

EN IEC 61215 (ed. 2)<sup>1</sup>

EN IEC 61730-1,-2<sup>1</sup>

DIN EN 13501-1<sup>1</sup>

DIN EN ISO 11925-2<sup>1</sup>

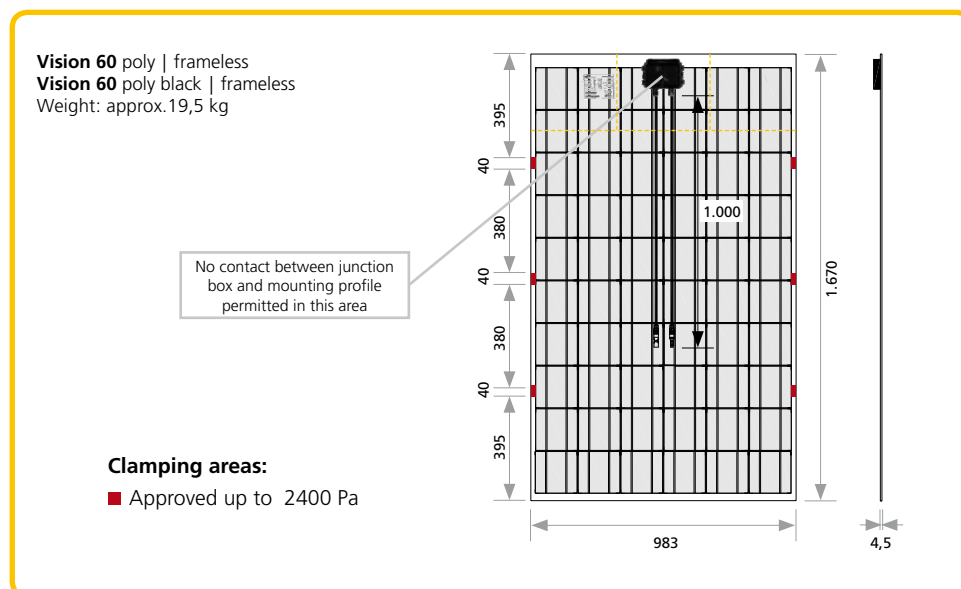
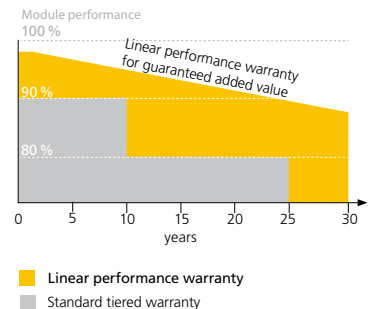
Protection class II

Directive 2006/95/EG (CE)

<sup>1</sup>Subject to follow-up certifications.



- Qualified, EN IEC 61215 (ed. 2)
- Safety tested, EN IEC 61730-1,-2
- Periodic inspection



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