



# S-Class Vision 60 black

Polycrystalline, 235 Wp - 255 Wp

## Maximum performance for a lifetime



### Performance guarantee: less degradation than the industry standard

- 30 years linear performance guarantee (98-87% after 30 years)
- 25% more guaranteed power yield
- PID free high-performance cells
- Anti reflective coated, high light-transmittance solar glass
- Best low-light behaviour



### 20 years product guarantee: Long Lifetime even under extreme conditions

- 2x2mm, scratch-resistant thermally hardened thin glass
- Glass-glass composite technology minimises impact of environmental factors
- Cells in neutral phase are especially protected against tensile and pressure loads
- Excellent mechanical load resistance (6,600Pa)



### Complementary: flexible and simple installation

- Light weight
- Extended clamping areas
- Landscape, portrait and upside down installation possible
- Complementary to leading mounting systems
- Fire protection: Tested in accordance with DIN ENV 1187 (t1)



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

For detailed information, please consult the Centrosolar AG warranty conditions.



## S-Class Vision 60 black, polycrystalline

### Performance under STC\*

Module type	S 235P60 Vision black	S 240P60 Vision black	S 245P60 Vision black	S 250P60 Vision black	S 255P60 Vision black	
Nominal power (P <sub>mp</sub> )	235	240	245	250	255	Wp
Short-circuit current (I <sub>sc</sub> )	8,61	8.72	8.83	8.91	8.99	A
Open-circuit voltage (U <sub>oc</sub> )	37,14	37.32	37.49	37.62	37.69	V
Voltage (U <sub>mp</sub> )	29,24	29.4	29.55	29.73	29.87	V
Current (I <sub>mp</sub> )	8,04	8.17	8.30	8.41	8.54	A
Efficiency $\eta$	14,1	14.6	14.8	15.1	15.4	%

\* Under Standard Test Conditions (STC) (1,000 W/m<sup>2</sup>, spectrum AM 1.5, cell temperature 25°C), measurement tolerances STC:  $\pm 3\%$  (P<sub>mp</sub>);  $\pm 10\%$  (I<sub>sc</sub>, U<sub>oc</sub>, I<sub>mp</sub>, U<sub>mp</sub>)

### Power at 800 W/m<sup>2</sup>, NOCT, AM 1.5

Module type	S 235P60 Vision black	S 240P60 Vision black	S 245P60 Vision black	S 250P60 Vision black	S 255P60 Vision black	
Nominal power (P <sub>mp</sub> )	175.77	179.65	183.50	187.09	190.93	Wp
Short-circuit current (I <sub>sc</sub> )	6.93	7.02	7.11	7.17	7.23	A
Open-circuit voltage (U <sub>oc</sub> )	34.96	35.12	35.28	35.39	35.44	V
Voltage (U <sub>mp</sub> )	27.45	27.60	27.74	27.91	28.03	V
Current (I <sub>mp</sub> )	6.40	6.51	6.61	6.70	6.81	A

### Thermal properties

TC P <sub>mp</sub>	-0.43	%/K
TC U <sub>oc</sub>	-0.35	%/K
TC I <sub>sc</sub>	0.03	%/K
NOCT	46 $\pm$ 2	°C

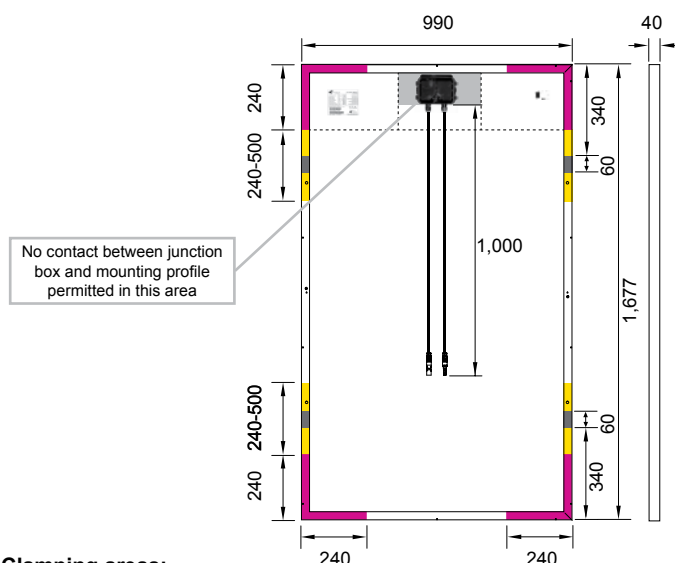
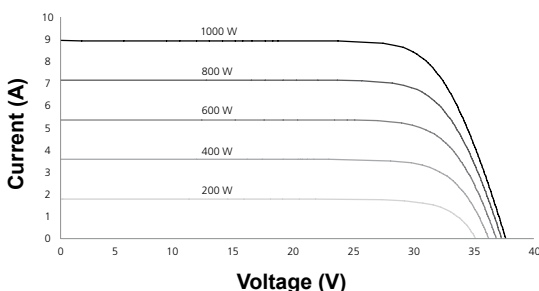
### Other technical specifications

Class range (positive power classification)	-0/+4.99	W
Max. system voltage	1,000	V
Weight	22.0 $\pm$ 0.5	kg
Reverse current load IR	15	A
Frame height	40	mm
Number of bypass diodes in connector	3	pcs

### Materials used

Cell count	60
Cell dimensions	156 mm x 156 mm
Front side	Hardened anti-reflective glass, 2.0 mm
Back side	Hardened solar glass, 2.0 mm
Junction box	IP65

I-V Curve S 250P60 Vision black



### Clamping areas:

- Approved up to 2,400 Pa
- Approved up to 5,400 Pa
- Approved up to 6,600 Pa

Measurements in mm

Last updated: 06/2014. All information is supplied without guarantee. Technical changes reserved.