

S-Class Professional black

Polycrystalline, 235 - 250Wp

Powerful. Attractive. Versatile.

Improved appearance:

- Elegant and attractive design with black back side and black frame

Flexible and simple installation:

- Extended clamping areas
- Upside down installation possible*
- Up to 5,400 Pa load

Optimised for power:

- Anti-reflective glass ensures high yields even under diffuse irradiation
- Positive power classification
- Industry-leading NOCT values
- 100% PID safe

Warranty and safety:

- Manufactured in the CENTROSOLAR factory, certified in accordance with DIN EN ISO 9001:2008, ISO 14001:2009 and OHSAS 18001:2007
- Salt spray corrosion testing according to IEC 61701 Ed. 2
- Ammonia resistance testing according to IEC 62716 Draft C
- 10-year product warranty**
- 26-year linear performance warranty**



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

* This is approved from module serial number 2564702

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



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Performance at STC*

Module type	S 235P60 Professional black	S 240P60 Professional black	S 245P60 Professional black	S 250P60 Professional black	
Nominal power (Pmpp)	235	240	245	250	Wp
Short-circuit current (Isc)	8.61	8.72	8.83	8.91	A
Open-circuit voltage (Uoc)	37.14	37.32	37.49	37.62	V
Voltage (Umpp)	29.24	29.40	29.55	29.73	V
Current (Impp)	8.04	8.17	8.30	8.41	A
Efficiency η	14.6	14.9	15.2	15.5	%

* Under Standard Test Conditions (STC) (1,000 W/m², spectrum AM 1.5, cell temperature 25°C), measurement tolerances STC: $\pm 3\%$ (Pmpp); $\pm 10\%$ (Isc, Uoc, Impp, Umpp)

Power at 800 W/m², NOCT, AM 1.5

Module type	S 235P60 Professional black	S 240P60 Professional black	S 245P60 Professional black	S 250P60 Professional black	
Nominal power (Pmpp)	175.77	179.65	183.50	187.09	Wp
Short-circuit current (Isc)	6.93	7.02	7.11	7.17	A
Open-circuit voltage (Uoc)	34.96	35.12	35.28	35.39	V
Voltage (Umpp)	27.45	27.60	27.74	27.91	V
Current (Impp)	6.40	6.51	6.61	6.70	A

Thermal properties

TC Pmpp	-0.43	%/K
TC Uoc	-0.35	%/K
TC Isc	0.03	%/K
NOCT	46 \pm 2	°C

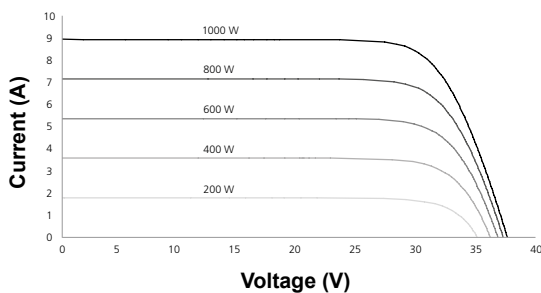
Other technical specifications

Class range (positive power classification)	-0/+4.99	W
Max. system voltage	1,000	V
Weight	20 \pm 0.5	kg
Reverse current load IR	15	A
Pmpp measurement accuracy under STC	± 3	%
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
Junction box	IP65

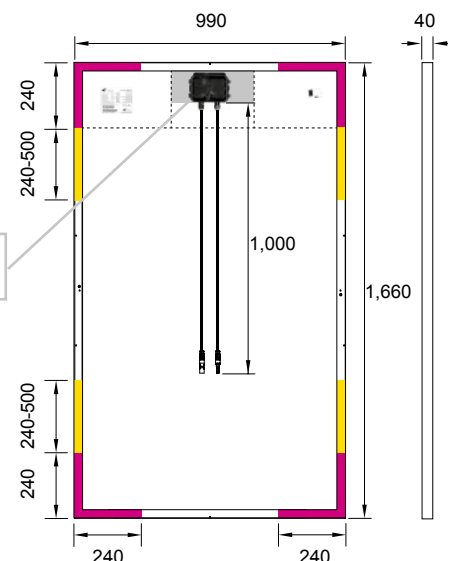
I-V curve S 250P60 Professional black



No contact between junction box and mounting profile permitted in this area

Clamping areas:

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



Measurements in mm