Powerful performance – high stability. Bosch Solar Module c-Si M 60 EU30117 | EU30123

High-quality – high-performance – reliable.Solar modules from Bosch Solar Energy.





Our crystalline solar modules offer impressive features including:

- ► Excellent quality assured through use of the best Europeanstandard components
- ► Excellent processing and long-term stability right along the value-added chain
- ▶ Higher specific yields due to positive power sorting
- Simple and secure installation with dovetailed Bosch Solar Rack products



Quality

Salt corrosion resistance tested Ammonia resistance tested



Product features

Performance sorting -0/+4.99 Wp Temperature coefficient P_{mpp} -0.46% K



Value chain

Crystal-Wafer-Cell-Module



Components

Structured frontglass, MC4, Bosch Solar Cell M 3BB



Warranty

10 years product and 25 years performance guarantee (90% up to 10 years, 80% up to 25 years)



Power classes

235-250 Wp



Bosch Solar Energy modules go through strict quality tests during the different stages of production according to international standards.













Length [x]	Width [y]	Frame height [z]	Weight	Junction box	Plug connector type	Cable [I]	Front glass surface
1660.0	990.0	50.0	21	Spelsberg	MC4	-800 +1200	Structured
	x, y, I in mm, ±2; z in mm, ±0.3; weight in kg ±0.5						

Crystalline solar module		
Performance classes	235 Wp, 240 Wp, 245 Wp, 250 Wp	
Performance sorting	-0/+4.99 Wp	
Structure	Glass-foil laminate ► Anodized aluminum frame ► Junction box (IP 65) with 3 bypass diodes ► Weather-resistant back sheet (white)	
Cells	60x monocrystalline solar cells in 156 mm x 156 mm format	

5400 Pa superimposed load, 2400 Pa suction load, in accordance with IEC 61215 (extended test)

Electrical characteristics for STC1:

Mechanical load

Designation	Pmpp [Wp]	Vmpp [V]	Impp [A]	Voc [V]	lsc [A]	Reverse-current load capacity [A]
250	250	30.31	8.25	37.90	8.82	25
245	245	30.10	8.20	37.70	8.70	25
240	240	30.00	8.10	37.40	8.60	25
235	235	29.90	8.00	37.10	8.50	25

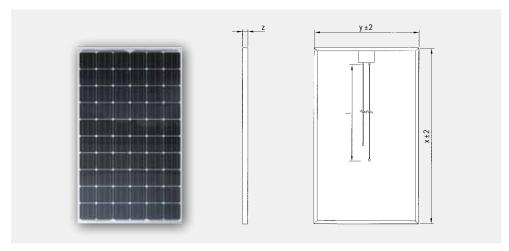
Reduction in module efficiency with decrease in irradiation level from 1000 W/m² to 200 W/m² (at 25 °C): -0.33% (absolute); measuring tolerance Pmpp ±3%

Electrical characteristics for NOCT¹:

Designation	Pmpp [W]	Vmpp [V]	Voc [V]	Isc [A]
250	182	27.36	34.82	7.11
245	177	27.07	34.09	6.92
240	173	26.98	34.00	6.84
235	169	26.87	33.89	6.76

NOCT: Normal Operation Cell Temperature 48.4 °C: Irradiation level 800 W/m², AM 1.5, temperature 20 °C, wind speed 1 m/s, electrical open circuit operation

Dimensions²:



- ¹ Electrical parameters are typical mean values from historical production data. No guarantee is made for the accuracy of this data for future production batches.
- ² Drawings are not to scale. For detailed dimensions and tolerances, see above.

Notes on assembly:

- ▶ See installation and operating manual at: www.bosch-solarenergy.com/ products
- ► Horizontal and vertical assembly possible
- ► System voltage max. 1000 V
- ► Operating temperature range -40 to 85 °C

Weak light performance:

Intensity [W/m²]	Vmpp [%]	Impp [%]	
800	0.0	-20	
600	0.0	-40	
400	-0.4	-60	
200	-3.2	-80	
100	-6.0	-90	
The electrical data applies for 25 °C and AM 1.5.			

Thermal characteristics:

Temperature coefficient	TK [%/K]
Pmpp	-0.46
Uoc	-0.32
Isc	0.032

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The Bosch Solar Energy AG installation and operating instructions must be followed. Bosch Solar Energy AG accepts no liability for damage to equipment operated in conjunction with solar modules from Bosch Solar Energy AG without regard to the technical datasheets. Subject to technical modifications in the course of product development and mistakes/errors.