

Powerful performance – high stability.

Bosch Solar Module c-Si M 60

EU44117 | EU44123

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



BOSCH

Our crystalline solar modules offer impressive features including:

- ▶ Excellent quality assured through use of the best European-standard components
- ▶ Excellent processing and long-term stability right along the value-added chain
- ▶ Higher specific yields due to positive power sorting

Our certificates – quality stamped in writing

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



• Qualified IEC 61215
• Safety tested IEC 61730
• Salt corrosion resistance tested
• Ammonia resistance tested
• Periodic inspection



Quality

Salt corrosion resistance tested
Ammonia resistance tested



Product features

Performance sorting $-0/+4.99$ Wp
Temperature coefficient $P_{mpp} -0.44\%/K$



Value chain

Crystal – Wafer – Cell – Module



Components

AR-Glas, LHS, 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

255 – 270 Wp

Length [x]	Width [y]	Frame height [z]	Weight	Junction box	Plug connector type	Cable [l]	Front glass surface
1660.0	990.0	50.0	21	IP65	MC4	-800 +1200	structured with anti-reflective coating
x, y, l in mm, ±2; z in mm, ±0.3; weight in kg ±0.5							

Crystalline solar module	
Performance classes	255 Wp, 260 Wp, 265 Wp, 270 Wp
Performance sorting	-0/+4.99 Wp
Structure	Glass-foil laminate ▶ Anodized aluminum frame ▶ Junction box (IP65) with 3 bypass diodes ▶ Weather-resistant back sheet (white)
Cells	60x monocrystalline solar cells in 156 mm x 156 mm format
Mechanical load	5400 Pa superimposed load, 2400 Pa suction load, in accordance with IEC 61215 (extended test)

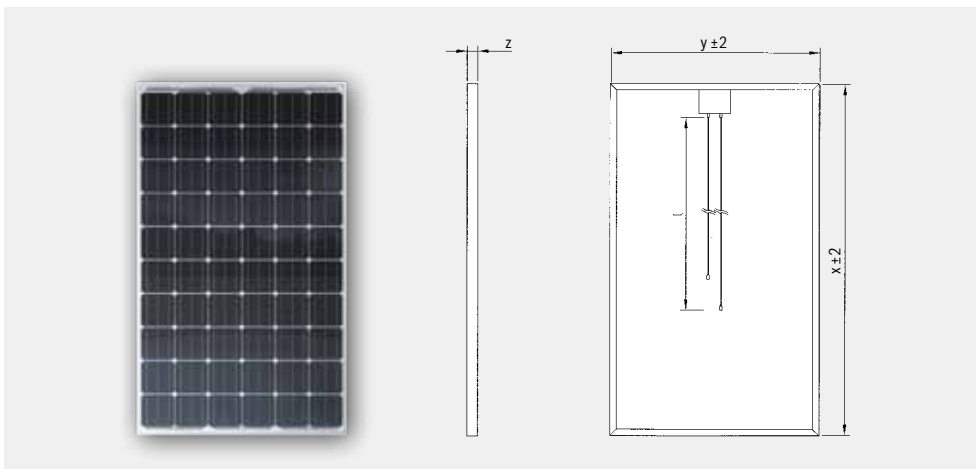
Electrical characteristics for STC¹:

Designation	P _{mpp} [Wp]	V _{mpp} [V]	I _{mpp} [A]	V _{oc} [V]	I _{sc} [A]	Reverse-current load capacity [A]
255	255	29.94	8.52	37.29	9.12	25
260	260	30.25	8.60	37.60	9.19	25
265	265	30.55	8.68	37.91	9.26	25
270	270	30.85	8.76	38.22	9.33	25
Reduction in module efficiency with decrease in irradiation level from 1000 W/m ² to 200 W/m ² (at 25 °C): -0.32% (absolute)						

Electrical characteristics for NOCT¹:

Designation	P _{mpp} [W]	V _{mpp} [V]	V _{oc} [V]	I _{sc} [A]
255	185	27.52	30.06	7.35
260	189	27.79	30.31	7.40
265	193	28.07	30.56	7.46
270	196	28.35	30.81	7.52
NOCT: Normal Operation Cell Temperature 48.4 °C: Irradiation level 800 W/m ² , 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
- ▶ Horizontal and vertical assembly possible
- ▶ System voltage max. 1000 V
- ▶ Operating temperature range -40 to 85 °C

Weak light performance:

Intensity [W/m ²]	V _{mpp} [%]	I _{mpp} [%]
800	0.0	-20
600	0.0	-40
400	-0.18	-60
200	-2.36	-80
100	-5.45	-90
The electrical data applies for 25 °C and AM 1.5.		

Thermal characteristics:

Temperature coefficient	TK [%/K]
P _{mpp}	-0.44
U _{oc}	-0.31
I _{sc}	0.031

Robert Bosch Australia Pty Ltd
 Locked Bag 66
 Clayton South Victoria 3169
 Australia
 Phone: +61 03 9541 3912
 Fax: +61 03 9541 7766
sales.se@au.bosch.com
www.bosch-solarenergy.com