PV Solarsys panel PM 2XX-3BB Black

HIGH PERFORMANCE - LONG-TERM STABILITY

Our monocrystalline solar modules offer solution:

- Excellent quality assured through use of the best European-standard components
- Excellent processing and long-term stability
- Professional customer service with unbureaucratic order and complaint processing carried out by designated contact persons
- Simple, safe installation thanks to standardized clamp mechanisms

Warranty conditions:

- 10 years product warranty
- 25-year performance guarantee (90 % up to 10 years, 80 % up to 25 years)
- Product certification to IEC 61215 (ed. 2)
- Protection class II / IEC 61730
- CE conformity
- TÜV
- ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007

Positive power sorting -0/+4,99 Wp

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Mechanical characteristics

Length (x)	1663
Width (y)	998
Thickness (z)	45
Weight	22
Cable (l)	2 x 1000
Number of the monocrystalline solar cells	60
Efficiency of the solar cells	17,60 - 18,84%

x, y, z, l v mm, +/- 2 mm, weight in kg, +/- 0,5 kg

Charakteristics

Solar modules	BOSH Solar Cell M 3BB
Contacts	soldering along the whole length of busbar
Construction	glass / EVA / tedlar
Front side	structured tempered glass
Back side	DyMat PYE
Junction box	Spelsberg PV 1410-2
Connector	MC 4

Electrical characteristics for STC*

Type Mono 3BB	Pmpp [Wp]	Vmpp [V]	Impp [A]	Voc [V]	Isc [A]
240	240	29,40	8,17	36,60	8,90
245	245	29,60	8,28	36,80	8,96
250	250	29,80	8,39	37,10	9,04
255	255	30,00	8,50	37,30	9,12
260	260	30,30	8,60	37,50	9,18
265	265	30,60	8,68	37,90	9,26
270	270	30,90	8,76	38,20	9,32
275	275	31,20	8,84	38,50	9,36

Reduction in module efficiency with decrease in irradiation level from 1 000 W/m² to 200 W/m² (at 25 °C): –0.32 % (absolute); measuring tolerance P +/- 3 %

Electrical characteristics for NOCT*

Type Mono 3BB	Pmpp [W]	Vmpp [V]	Voc [V]	Isc [A]
240	173	26,80	33,70	7,19
245	178	27,00	33,90	7,24
250	182	27,20	34,10	7,29
255	185	27,50	34,30	7,35
260	189	27,80	34,50	7,40
265	193	28,10	34,90	7,46
270	196	28,40	35,10	7,52
275	199	28,70	35,40	7,58

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

* Electrical parameters are typical mean values from historical production data. PV Solarsys s.r.o. assumes no liability for the accuracy of this data for future production batches.

** Drawings are not to scale. For detailed dimensions and tolerances, see above.

Weak light performance

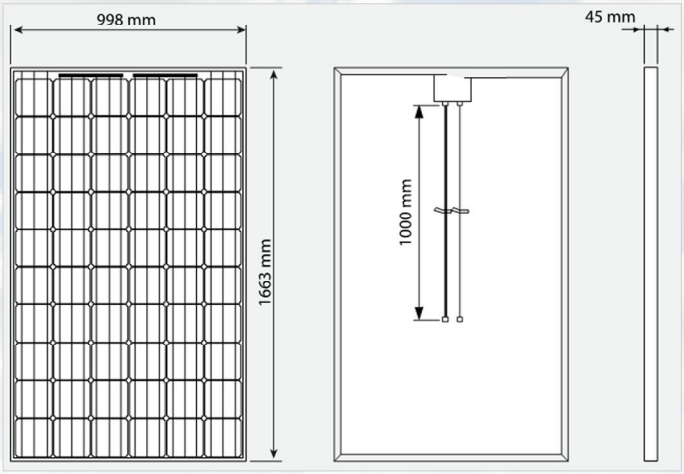
Intensity (W/m²)	Vmpp [%]	Impp [%]
800 W/m²	0,0	-20
600 W/m²	0,0	-40
400 W/m²	-0,18	-60
200 W/m²	-2,36	-80
100 W/m²	-5,45	-90

The electrical data applies for 25 °C and AM 1.5.

Thermal characteristics

Operating temperature range	-40 to 85 °C
Temperature coefficient Pmpp	–0.44 %/K
Temperature coefficient Voc	–0.31 %/K
Temperature coefficient Isc	0.031 %/K

Dimensions**



Special glass
There are special solar, toughened glasses with the low iron content, resistant to environmental influences used for our modules.
Using unique technology in the manufacture of glass, the maximum throughput of solar radiation is achieved.

Frame
Thanks to a special patented frame, the installation of the solar module PM-2XX 3BB is faster and easier. Photovoltaic system is stronger than a system composed of modules with a standard frame.

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