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EnergyPal

Solar Panel Guide Specification Data Sheet

**PV Solarsys, s.r.o.
PM 2XX-3BB Black
Black 260**

Also available on the web at
EnergyPal.com/pv-solarsys-s-r-o-solar-panels/black-260

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**



Remedia
PASSIONE PER L'AMBIENTE

PV Solarsys panel PM 2XX-3BB Black

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

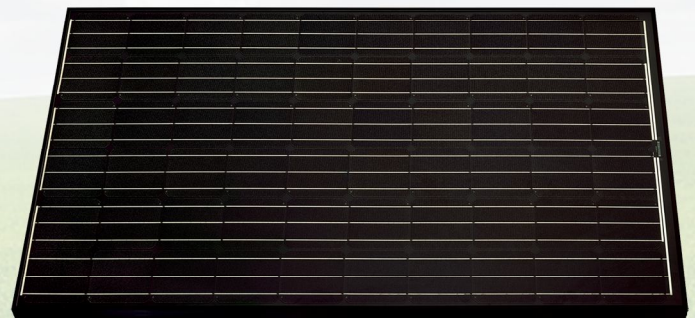
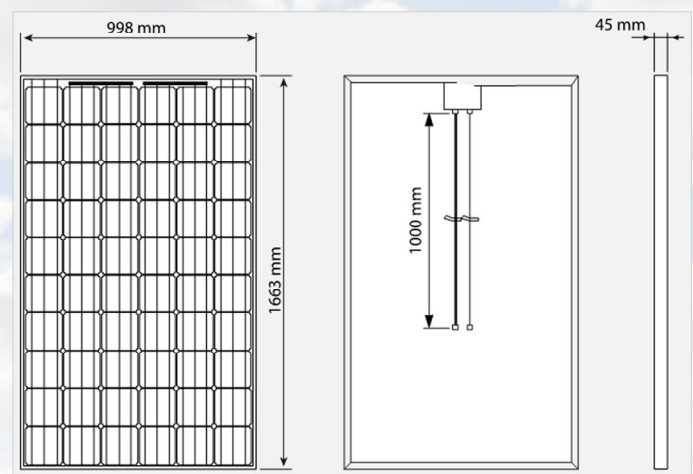
| Intensity (W/m ²) | Vmpp [%] | Impp [%] |
|-------------------------------|----------|----------|
| 800 W/m ² | 0,0 | -20 |
| 600 W/m ² | 0,0 | -40 |
| 400 W/m ² | -0,18 | -60 |
| 200 W/m ² | -2,36 | -80 |
| 100 W/m ² | -5,45 | -90 |

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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