

Meyer Burger Black


Product type: MB_B120AyB_XXX


375 – 395 W_p

For maximum yields combined with outstanding design: Heterojunction high-performance solar module with SmartWire Connection Technology (SWCT®).





 **Made in Germany. Designed in Switzerland.**
Production and development according to the highest quality standards.


 **Highly profitable**
More energy yield over the same area even on cloudy or hot days.

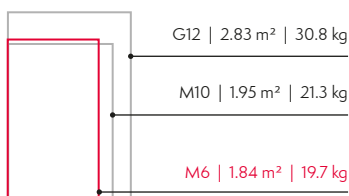
 **Extremely durable**
Outstanding cell stability and high breakage resistance thanks to patented SmartWire Connection Technology.

 **Consistently sustainable**
Regional value creation, made without lead and produced using 100 % renewable energy.

 **Guaranteed reliability**
Industry-leading 25-year product and performance warranty.

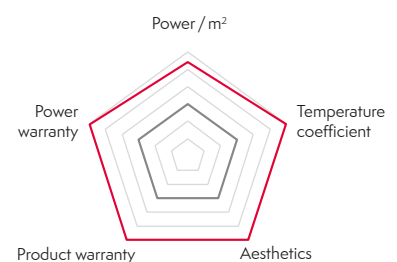
 **Extremely aesthetic**
Elegant Swiss design suitable for all roof shapes and sophisticated architecture.

 **Extremely practical**
Convenient handling, maximum layout flexibility and maximum system performance thanks to compact format.



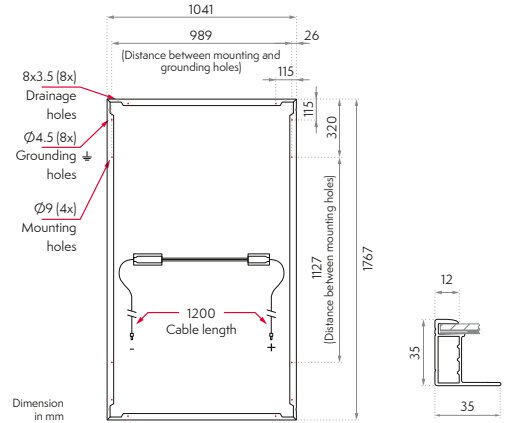
* Size formats compared

○ Meyer Burger
○ Market average



Mechanical specification

| | |
|-----------------|--|
| Dimensions [mm] | 1767 x 1041 x 35 |
| Weight [kg] | 19.7 |
| Front cover | Tempered solar glass, 3.2 mm, with anti-reflective surface |
| Back cover | Black water-barrier backsheet |
| Frame | Black anodized aluminum |
| Solar cell type | 120 half-cells, mono n-Si, HJT with SWCT® |
| Junction boxes | 3 diodes, IP68 rated in accordance with IEC 62790 |
| Cable | PV cable 4 mm ² , 1.2 m length in accordance with EN 50618 |
| Connectors | 1: MC4; 2: MC4-Evo2; 3: UKT Energy PV-CO02; 4: TE Connectivity PV4-S1 in accordance with IEC 62852, IP68 rated only when connected |



Packages



Delivery by container or truck. For truck freight, 0.78 loading meters per pallet and stacking factor 2 apply.

Electrical specification¹

Product type: MB_B120AyB_XXX²

| Power class | Efficiency | | Power ^{**} | | Short circuit current | | Open circuit voltage | | Current at MPP | | Voltage at MPP | |
|-------------|-------------|--|---------------------|------------|-----------------------|-------------|----------------------|-------------|----------------|-------------|----------------|-------------|
| | η | | P_{max} | STC | I_{sc} | STC | V_{oc} | STC | I_{mpp} | STC | V_{mpp} | STC |
| | [%] | | [W] | | [A] | | [V] | | [A] | | [V] | |
| 375 | 20.4 | | 283 | 375 | 8.5 | 10.6 | 42.2 | 44.4 | 7.9 | 9.9 | 35.7 | 37.8 |
| 380 | 20.7 | | 287 | 380 | 8.5 | 10.6 | 42.2 | 44.5 | 8.0 | 10.0 | 36.1 | 38.2 |
| 385 | 20.9 | | 291 | 385 | 8.5 | 10.6 | 42.3 | 44.6 | 8.0 | 10.0 | 36.4 | 38.5 |
| 390 | 21.2 | | 294 | 390 | 8.5 | 10.6 | 42.4 | 44.6 | 8.0 | 10.1 | 36.7 | 38.9 |
| 395 | 21.5 | | 298 | 395 | 8.5 | 10.6 | 42.4 | 44.7 | 8.1 | 10.1 | 37.0 | 39.2 |

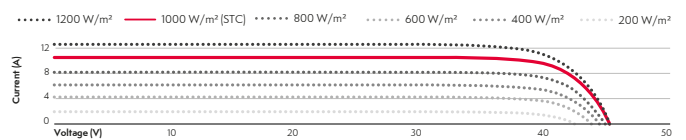
^{*} XXX = power class, y = connector type | ^{**} Power tolerance -0 W / +5 W for STC

Temperature coefficients

| | | | |
|--------------------------------------|-------------------|-------|--------|
| Temperature coefficient of I_{sc} | α | [%/K] | +0.033 |
| Temperature coefficient of V_{oc} | β | [%/K] | -0.234 |
| Temperature coefficient of P_{MPP} | γ | [%/K] | -0.259 |
| Nominal Module Operating Temperature | NMOT ³ | [°C] | 44±2 |

The temperature coefficients stated are linear values.

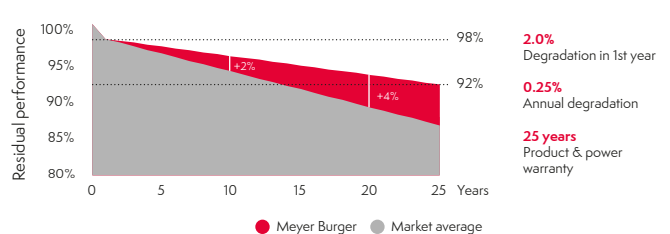
I-V curves at different irradiances



Properties for system design

| | | |
|--|------|------------------------|
| Max. system voltage | [V] | 1000 |
| Overcurrent protection rating | [A] | 20 |
| Max. test load +/- (Safety factor for test load = 1.5) | [Pa] | 6000/4000 |
| Max. design load +/- | [Pa] | 4000/2666 |
| Safety class | | II |
| Fire class [EN 13501-1 / EN 13501-5] | | E/B _{ROF} (H) |
| Operation temperature | [°C] | -40 to +85 |

Meyer Burger warranty



Certificates

IEC 61215:2016, IEC 61730:2016, PID (IEC 62804), Salt Mist (IEC 61701), MCS 010 & MCS 005
 Certification pending: Ammonia Resistance (IEC 62716), Dust & Sand (IEC 60068)

Test procedure according to IEC standard

Market standard **1x IEC**
 Meyer Burger materials testing **3x IEC**

¹Measurement according to IEC 60904-3, measurement tolerance: ±3%
²STC: Irradiance 1000 W/m², module temperature 25°C, AM1.5G Spectrum
³NMOT: Nominal Module Operating Temperature, with irradiance 800 W/m², AM1.5G-spectrum, ambient temperature 20°C

Notice: All data and specifications are preliminary and subject to change without notice.
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