

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.

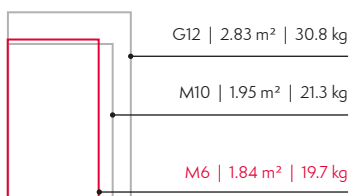
 **Extremely durable**
Outstanding cell stability and high breakage resistance thanks to patented SmartWire Connection Technology.

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

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

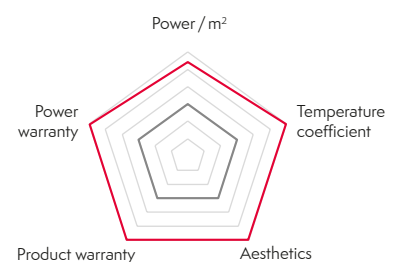
 **Extremely aesthetic**
Elegant Swiss design suitable for all roof shapes and sophisticated architecture.

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



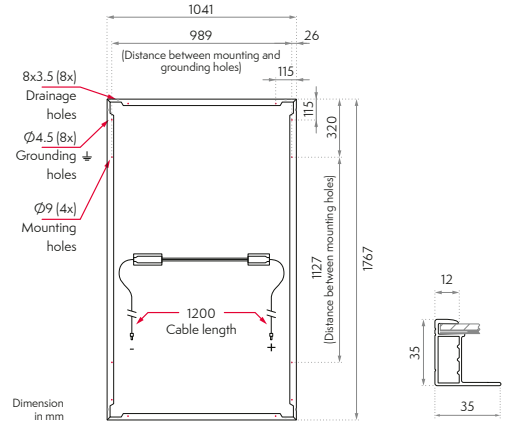
* Size formats compared

○ 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_XXX*

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	STC ²	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

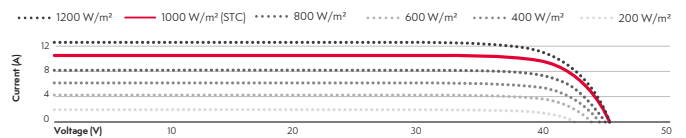
* XXX = power class, y = connector type | ** Power tolerance -0 W / +5 W for STC

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.

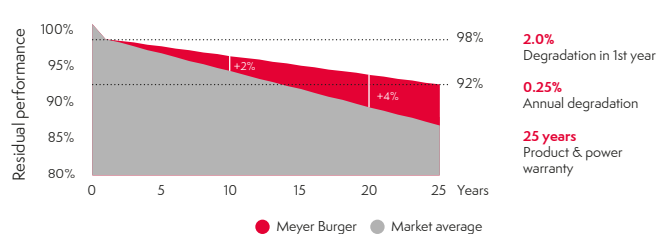
I-V curves at different irradiances



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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