

Meyer Burger Glass

Product type: MB_TG120ByB_XXX

370 – 390 Wp

For maximum stability and utilizing the full potential of the sun from all sides: Bifacial 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 30-year product and performance warranty.



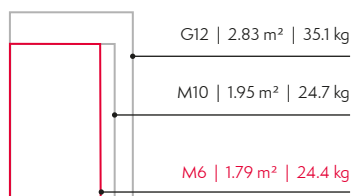
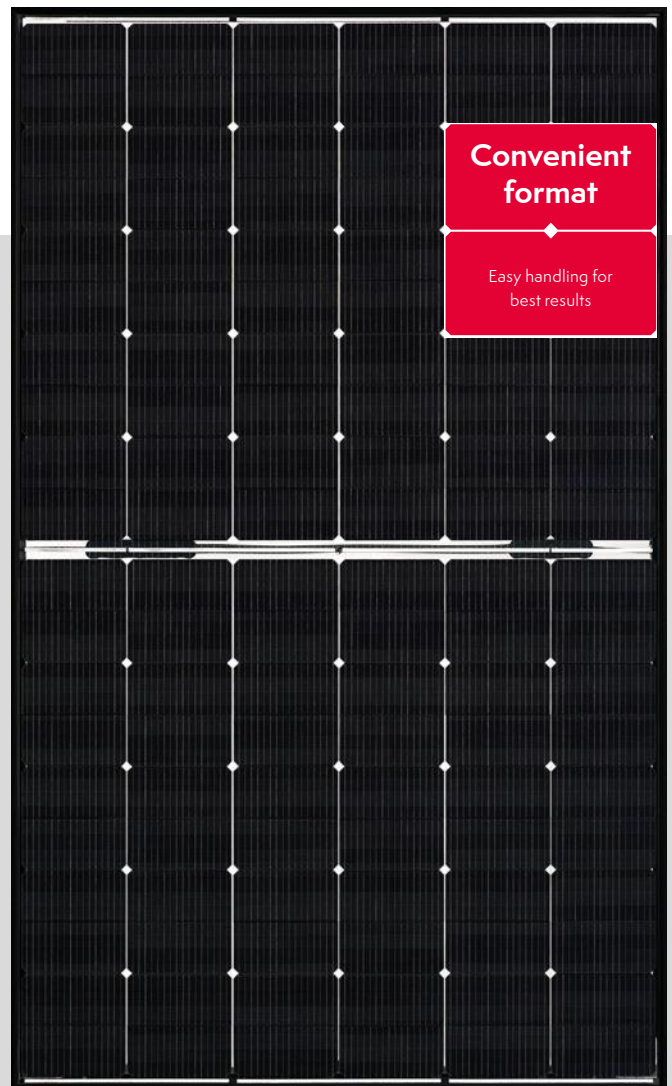
Extremely aesthetic

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



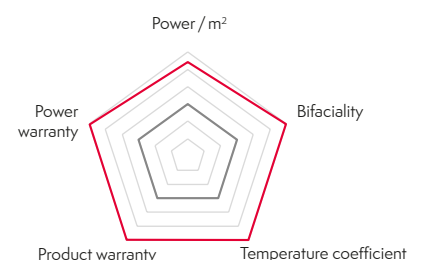
Extremely practical

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



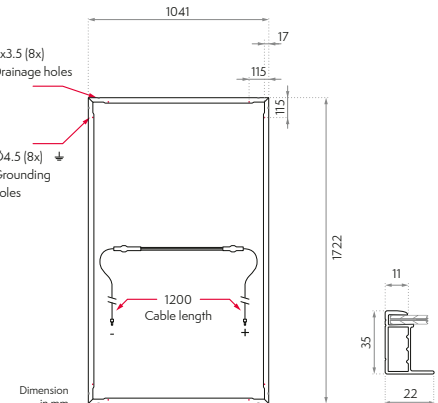
* Size formats compared

○ Meyer Burger
○ Market average

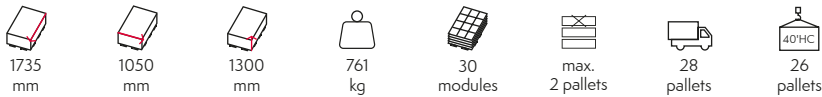


Mechanical specification

Dimensions [mm]	1722 x 1041 x 35
Weight [kg]	24.4
Front cover	Tempered solar glass, 2.0 mm, with anti-reflective surface
Back cover	Solar glass, 2.0 mm
Frame	Black anodized aluminum
Solar cell type	120 half-cells, mono n-Si, HJT with SWCT® bifacial cell technology
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: n.a.; 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, 0.76 loading meters per pallet and stacking factor 2 apply.

Electrical specification¹

Product type: MB_TG120ByB_XXX*

Power class	Efficiency		Power ^{a,e}			Short circuit current				Open circuit voltage				Current at MPP		Voltage at MPP	
	η		P_{max}			I_{sc}				V_{oc}				I_{mpp}		V_{mpp}	
	[%]		[W]			[A]				[V]				[A]		[V]	
	STC ²	NMOT ³	STC	BiFi135 (BNPI) ⁴	BiFi300 (BSI) ⁵	NMOT	STC	BiFi135 (BNPI)	BiFi300 (BSI)	NMOT	STC	BiFi135 (BNPI)	BiFi300 (BSI)	NMOT	STC	NMOT	STC
370	20.6	280	370	414	461	8.3	10.3	11.5	12.8	42.2	44.5	44.6	44.7	7.8	9.8	35.8	37.7
375	20.9	283	375	419	466	8.4	10.3	11.6	12.9	42.3	44.6	44.6	44.7	7.8	9.9	36.2	38.0
380	21.2	287	380	424	471	8.4	10.4	11.6	12.9	42.3	44.6	44.7	44.8	7.9	9.9	36.5	38.4
385	21.5	292	385	429	476	8.4	10.4	11.6	12.9	42.4	44.7	44.7	44.8	7.9	10.0	36.9	38.7
390	21.8	295	390	434	481	8.4	10.4	11.6	12.9	42.5	44.8	44.8	44.8	7.9	10.0	37.1	39.1
Bifaciality factor [%]			φP_{max} 90 ± 5			φI_{sc} 90.7 ± 5				φV_{oc} 99.7 ± 5							

* 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]	43±2

The temperature coefficients stated are linear values.

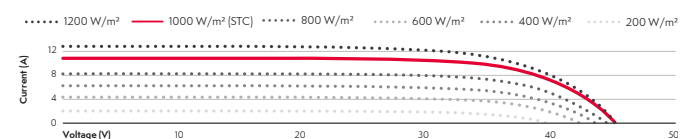
Properties for system design

Max. system voltage	[V]	1500
Overcurrent protection rating	[A]	25
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)		B/B _{ROOF} (1)
Operation temperature	[°C]	-40 to +85

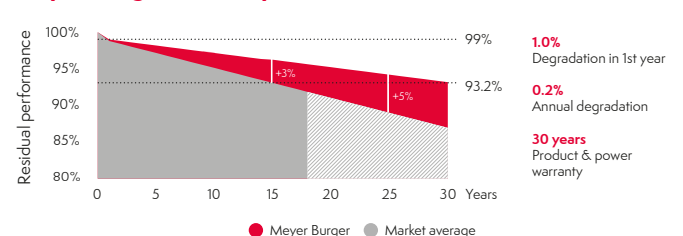
Certificates

IEC 61215:2016, IEC 61730:2016, PID (IEC 62804), Salt Mist (IEC 61701), MCS 010 & MCS 005, Ammonia corrosion resistance (IEC 62716), Blowing sand resistance (IEC 60068-2-68)

I-V curves at different irradiances



Meyer Burger warranty



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%, monofacial measurement with rear side covered
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
⁴According to TUV 2 PFG 2645/1117, with a rear irradiance of 135 W/m²
⁵Calculated according to IEC 61215:2021

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