

Meyer Burger Black

Heterojunction Module



Maximum performance:

Up to 20 percent more energy yield – even in low-light conditions, such as in the morning and evening hours or with cloudy skies



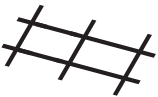
Maximum quality:

Production of solar cells and modules according to the highest standards and exclusively in Germany



Maximum durability:

Guaranteed yields for decades



Maximum stability:

Patented SmartWire technology makes the modules extremely rugged and efficient



Maximum elegance:

Understated and superb design – invented in Switzerland

Meyer Burger (Industries) GmbH

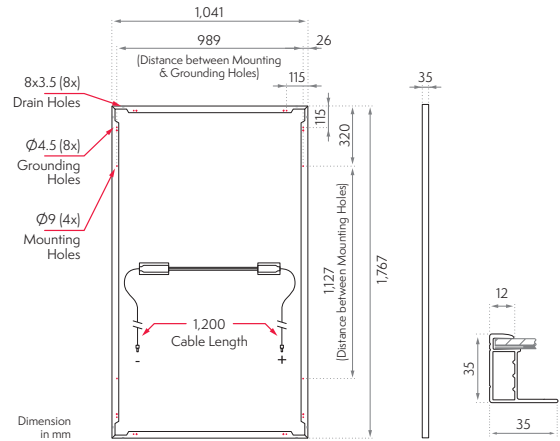
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MECHANICAL SPECIFICATION

Dimensions [mm]	1,767 x 1,041 x 35
Weight [kg]	19.7
Front cover	Solar glass, 3.2 mm, with anti-reflective surface
Back cover	High-barrier construction, black
Frame	Anodized aluminum (black)
Solar cell type	120 half-cut with Meyer Burger HJT w/ SWCT Bifacial Cell Technology
Junction boxes	3 diodes, IP68 rated, in accordance with IEC 62790, UL file number E470114
Cable	PV cable 4 mm ² , 1.2 m length, in accordance with EN 50618
Connectors	MC4 / MC4-Evo2, in accordance with IEC 62852, UL 61730, IP68 rated only when connected



ELECTRICAL SPECIFICATION¹

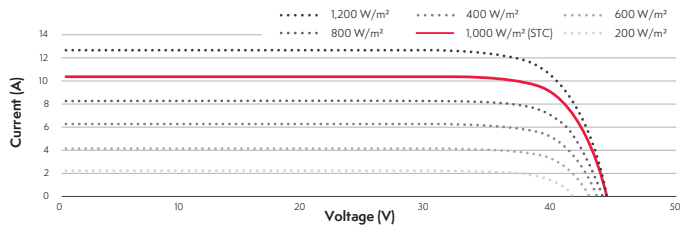
Power class in STC ² [W _p]			375		380		385		390		395	
Minimum Performance (Power Tolerance -0 W/+5 W) [W_p]			STC	NMOT³	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Power at MPP	P _{mpp}	[W]	375	286	380	292	385	297	390	298	395	303
Short Circuit Current	I _{sc}	[A]	10.6	8.6	10.6	8.6	10.7	8.6	10.8	8.7	10.9	8.8
Open Circuit Voltage	V _{oc}	[V]	44.5	41.9	44.6	42.0	44.6	42.0	44.7	42.1	44.7	42.1
Current at MPP	I _{mp}	[A]	9.9	8.0	10.0	8.1	10.1	8.2	10.2	8.2	10.3	8.3
Voltage at MPP	V _{mp}	[V]	38.0	35.8	38.2	36.0	38.4	36.2	38.5	36.3	38.7	36.5
Efficiency	η	[%]	20.4		20.7		20.9		21.2		21.5	

Temperature Coefficients

Temperature Coefficient of I _{sc}	α	[%/°C]	+0.033
Temperature Coefficient of V _{oc}	β	[%/°C]	-0.234
Temperature Coefficient of P _{MPP}	γ	[%/°C]	-0.259
Nominal Module Operating Temperature	NMOT ³	[°C]	44±2

The temperature coefficients stated are linear values

Performance at different irradiance



PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	[V]	1,000
Overcurrent Protection Rating	[A]	20
Max. Design Load +/-, (Safety Factor for Test load = 1.5)	[Pa]	4,000/2,666
Fire Type		5
Operating Temperature	[°C]	-40 to +85
Safety Class		II

MEYER BURGER WARRANTY

Product Warranty [y]	25
Power Warranty [y]	25
Power after 1 year	≥98% of nominal power
Annual Degradation [%/y]	0.25
Power after 25 years	≥92% of nominal power

Warranty conditions apply

CERTIFICATES

Certifications

IEC 61215:2016, IEC 61730:2016, UL61730-1, UL61730-2

Certifications (to come)

PID (IEC 62804), Salt Mist (IEC 61701), Ammonia Resistance (IEC 62716), Dynamical Mechanical Load (IEC, 62782:2016), Dust & Sand (IEC 60068)

For installation and operating instruction, please refer the installation guide, version 1.0.3...UL

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



WEEE-Reg.-Nr. DE 18170271

¹ Measurement according to IEC 60904-3, measurement tolerance: ±3%, monofacial measurement with rear side covered

² STC: Irradiance 1000 W/m², 25 °C, AM1.5 Spectrum

³ NMOT: Nominal Module Operating Temperature, with irradiance 800 W/m², AM1.5 Spectrum, 20 °C, wind speed 1 m/s