

# 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



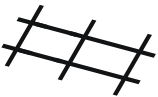
### Maximum quality:

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



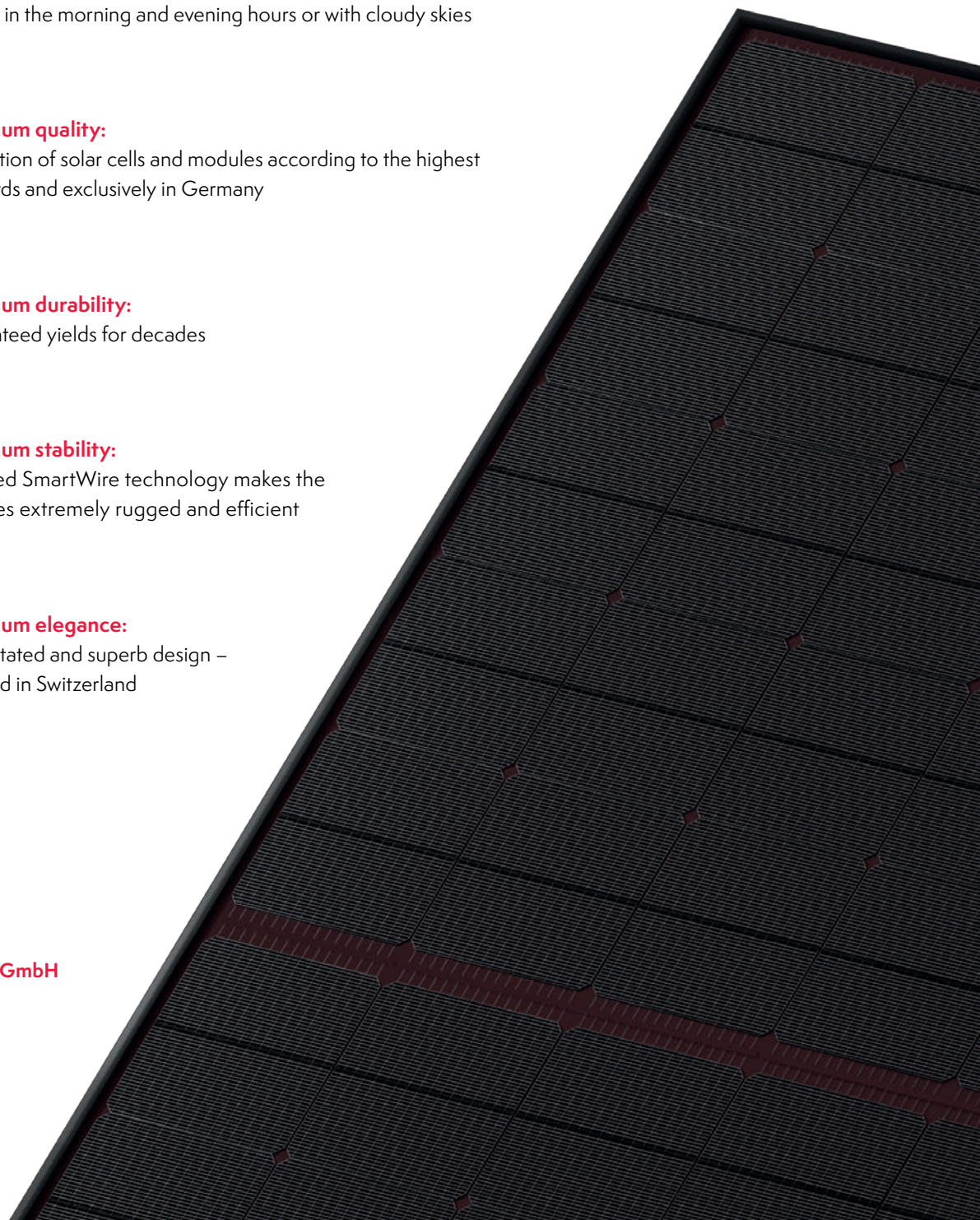
### Maximum elegance:

Understated and superb design – invented in Switzerland

### Meyer Burger (Industries) GmbH

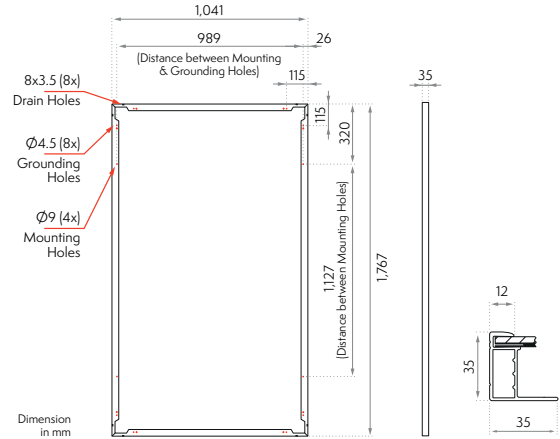
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## MECHANICAL SPECIFICATION

Dimensions [mm]	1,767 x 1,041 x 35
Weight [kg]	19.7
Front glass	Solar glass, 3.2 mm, with anti-reflective surface
Back glass	High-barrier construction, black
Frame	Anodized aluminum [black]
Solar cell type	120 half-cut, mono n-Si, HJT
Junction boxes	3 diodes, IP68 rated, in accordance with IEC 62790
Cable	PV cable 4 mm <sup>2</sup> , 1.2 m length, in accordance with EN 50618
Connectors	MC4, in accordance with IEC 62852, IP68 rated only when connected



## ELECTRICAL SPECIFICATION<sup>1</sup>

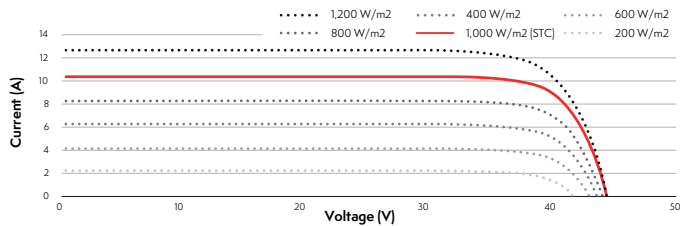
Power class in STC <sup>2</sup> [W <sub>p</sub> ]	375		380		385		390		395		
Minimum Performance (Power Tolerance -0 W/+5 W) [W <sub>p</sub> ]	STC	NMOT <sup>3</sup>	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	
Power at MPP	$P_{mpp}$	[W]	375	286	380	298	385	297	390	298	303
Short Circuit Current	$I_{sc}$	[A]	10.6	8.6	10.6	8.6	10.7	8.6	10.8	8.7	8.8
Open Circuit Voltage	$V_{oc}$	[V]	44.5	41.9	44.6	42.0	44.6	42.0	44.7	42.1	42.1
Current at MPP	$I_{mpp}$	[A]	9.9	8.0	10.0	8.1	10.1	8.2	10.2	8.2	8.3
Voltage at MPP	$V_{mpp}$	[V]	38.0	35.8	38.2	36.0	38.4	36.2	38.5	36.3	36.5
Efficiency	$\eta$	[%]	20.4		20.7		20.9		21.2		21.5

### Temperature Coefficients

Temperature Coefficient of $I_{sc}$	$\alpha$	[%/°C]	+0.033
Temperature Coefficient of $V_{oc}$	$\beta$	[%/°C]	-0.234
Temperature Coefficient of $P_{MPP}$	$\gamma$	[%/°C]	-0.259
Nominal Module Operating Temperature	NMOT <sup>3</sup>	[%/°C]	44±2

The temperature coefficients stated are linear values

### Performance at different irradiance



## PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	[V]	1,000
Maximum Series Fuse Rating	[A]	15
Max. Test Load +/-, [incl. Safety Factor of 1.5]	[Pa]	5,400/2,400
Fire Class (classification pending)	C	
Operating Temperature	°C	-40 to +85

## MEYER BURGER WARRANTY

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

Warranty conditions apply

## CERTIFICATES

### Certifications (pending)

IEC 61215:2016, IEC 61730:2016

### Certifications (to come)

UL61730-1, UL 61730-2, PID (IEC 62804), Salt Mist (IEC 61701), Ammonia Resistance (IEC 62716), Dynamical Mechanical Load (IEC, 62782:2016), Dust & Sand (IEC 60068)



<sup>1</sup> Measurement according to IEC 60904-3, measurement tolerance: ±3%, monofacial measurement with rear side covered  
<sup>2</sup> STC: Irradiance 1000 W/m<sup>2</sup>, 25 °C, AM1.5 Spectrum  
<sup>3</sup> NMOT: Nominal Module Operating Temperature, with irradiance 800 W/m<sup>2</sup>, AM1.5 Spectrum, 20 °C, wind speed 1 m/s