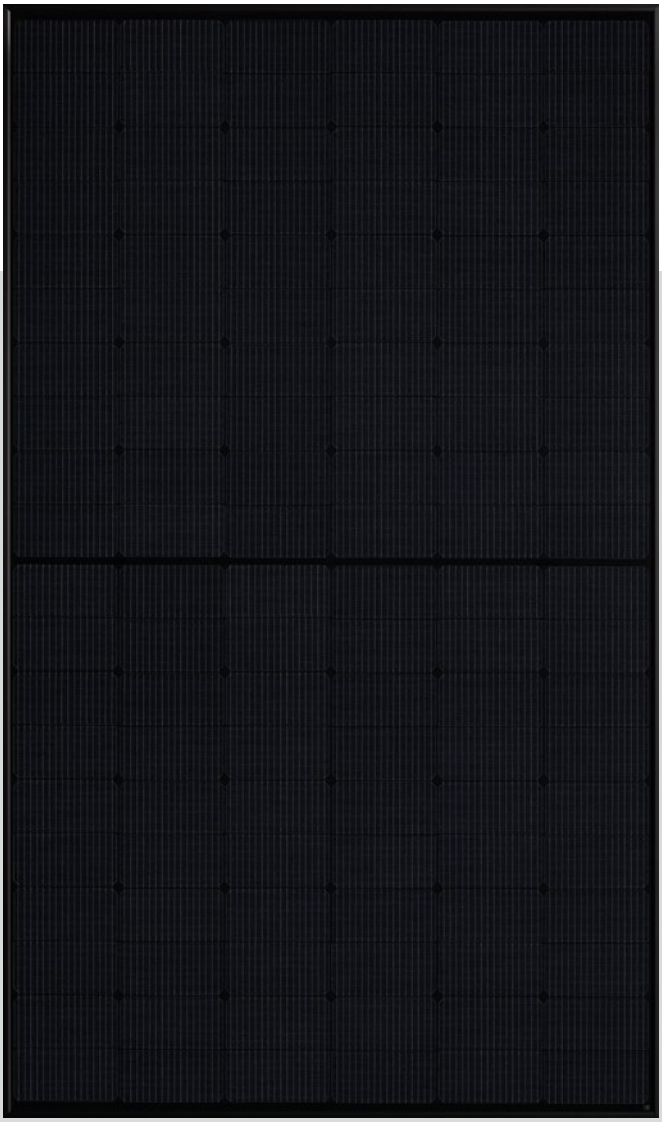
MEYER BURGER

# Meyer Burger Black

## 375 – 395 Wp

**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.

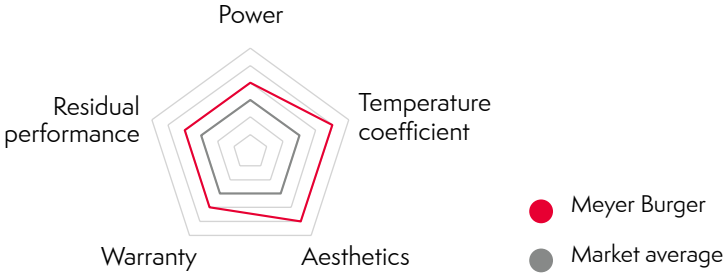
**Highly profitable**
More energy yield over the same area even on cloudy or hot days.

**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.




Residential rooftop

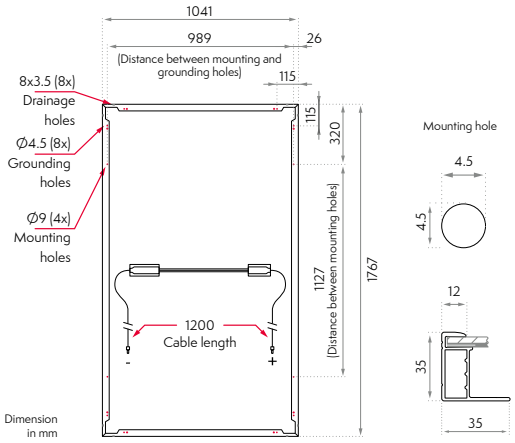
MEYER BURGER

Made in Germany.
Designed in Switzerland.

Lead Free

## Mechanical specification

| | |
|---|---|
| Dimensions [mm] | 1767 x 1041 x 35 |
| Weight [kg] | 19.7 |
| Front glass | Tempered solar glass, 3.2 mm, with anti-reflective surface |
| Back glass | 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 mm², 1.2 m length in accordance with EN 50618 |
| Connectors | MC4/MC4-Evo2 in accordance with IEC 62852, IP68 rated only when connected |




## Packages


| 1780 mm | 1050 mm | 1300 mm | 650 kg | 30 modules | max. 2 pallets | 28 pallets | 26 pallets |
|---|---|---|---|---|---|---|---|

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

## Electrical specification[1]

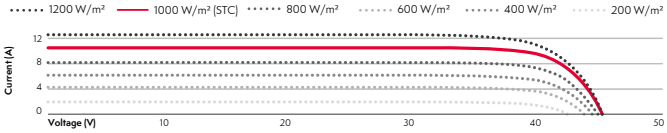
| Power class in STC[2] | | | 375 | | 380 | | 385 | | 390 | | 395 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Minimum performance (power tolerance -0 W/+5 W)** | | | **STC** | NMOT[3] | **STC** | NMOT | **STC** | NMOT | **STC** | NMOT | **STC** | NMOT |
| Minimum | Power at MPP | $P_{mpp}$ [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 | 5.6 | 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 | $I_{mpp}$ [A] | 9.9 | 8.0 | 10.0 | 8.1 | 10.1 | 8.2 | 10.2 | 8.2 | 10.3 | 8.3 |
| | Voltage at MPP | $V_{mpp}$ [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 | [%/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.

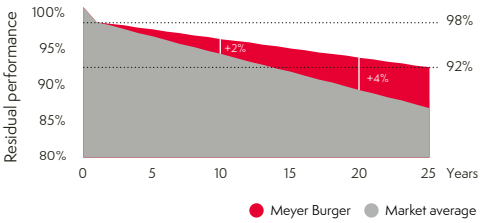
**I-V curves at different irradiations**




## 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 type (UL 61730) | | 5 |
| Fire class (EN 13501-1 / DIN 4102-1) | | E/B2 |
| Operation temperature | [°C] | -40 to +85 |

## Meyer Burger warranty




**2.0%**
Degradation in 1st year

**0.25%**
Annual degradation

**25 years**
Product & power warranty

## Certificates

**Certification**
IEC 61215:2016, IEC 61730:2016, UL 61730-1, UL 61730-2, PID (IEC 62804)
**Certification (pending)**
Salt Mist (IEC 61701), Ammonia Resistance (IEC 62716),
Dust & Sand (IEC 60068)

**Test procedure according to IEC standard**

| | |
|---|---|
| Market standard | 1× IEC |
| Meyer Burger materials testing | 3× IEC |

Notice: All data and specifications are preliminary and subject to change without notice.
**Visit us at meyerburger.com**

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

As of: June 2022 – Version Q2_2022_V2_en

WEEE Reg. No. DE 18170271