



GENERATION N-TYPE M10

BAUER SOLARTECHNIK GLASS-GLASS BLACK

BS-108M10HBB-GG 435 - 445 W

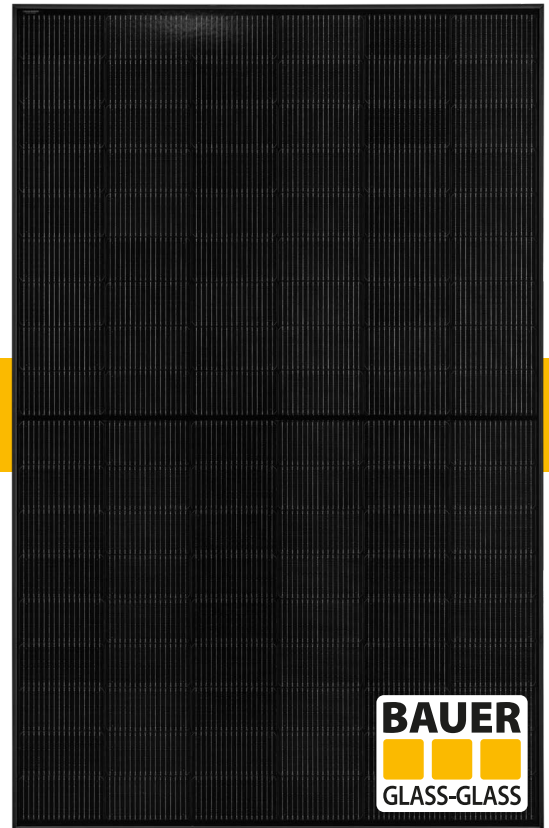
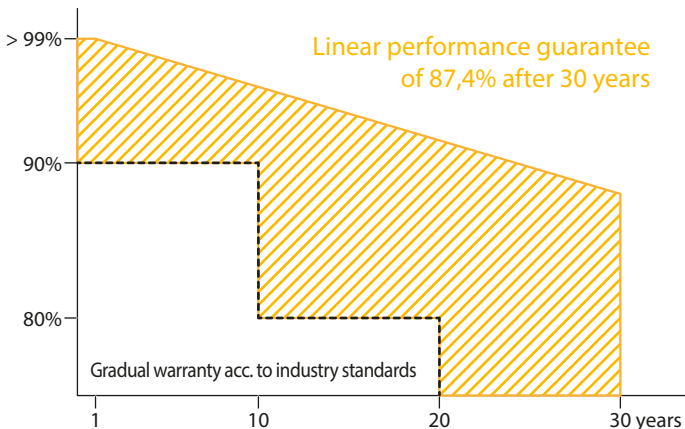
BIFACIAL GLASS-GLASS HALF-CELL MODULE - BLACK

engineered & designed in
GERMANY



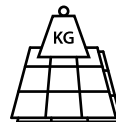
BAUER guarantees a minimum performance value of 87,4% after 30 years for the glass-glass solar modules.

A comparison of BAUER glass-glass solar modules performance guarantee to conventional glass-foil modules according to industry standards:



FIRE CLASS A

Maximum fire protection through double glazing according to the highest security requirements



STABILITY & DURABILITY

2 x 2 mm tempered anti-reflective solar glass: dirt-repellent, scratch-resistant, durable and shock-proved



BIFACIAL N-TYPE TOPCON HALF-CELLS

Up to 30% increase in yield through bifacial cells active on both sides and a transparent backside



GERMAN GUARANTOR

If necessary, it is guaranteed that a German company takes over any claim settlements



PERFORMANCE GUARANTEE

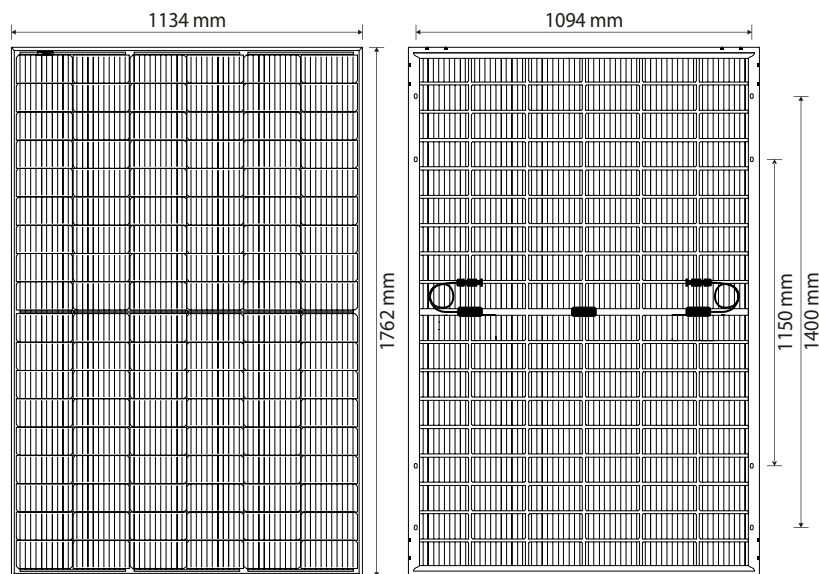
30 year warranty and a linear performance guarantee over a period of 30 years



REINSURANCE COVERAGE

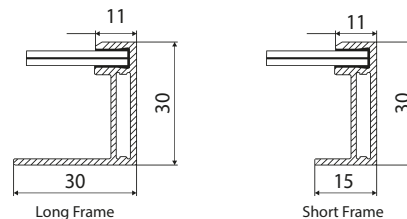
BAUER is reinsured for 30 years of the product's performance guarantee

DISTRIBUTION



BAUER SOLARTECHNIK GLASS-GLASS BLACK

BS-108M10HBB-GG 435 - 445 W



WARRANTIES¹

30 years product warranty

30 years performance guarantee

OPERATING CONDITIONS

Operating temperature -40 to 85°C

Static load 5400 Pa (snow/wind)

Hail test HW3 Ø 30 mm at ~ 24 m/s

CERTIFICATION

IEC 61215, IEC 61730, _re class A acc. IEC 61730-2

IEC 61701 (Salt mist), IEC 62716 (Ammonia)

PACKAGING

Modules per pallet 36

Pallets/modules per truck 26/936

PHYSICAL SPECIFICATIONS

| | |
|--------------------|--|
| Module dimensions | 1762 x 1134 x 30 mm |
| Weight | 24,5 kg |
| Frame | Anodized aluminium alloy (black) |
| Frontside | Premium Protect anti-reflection glass, 2 mm |
| Embedding material | EVA |
| Backside | Black coated anti-reflection glass, 2 mm |
| Solar cells | 108 monocrystalline N-type bifacial half-cells |
| Bifaciality | 80 % ± 5 % |
| Junction box(es) | IP68, 3 bypass diodes |
| Cable & connector | 1x4 mm ² , 1300 mm, Stäubli MC4/EVO2A |

ELECTRICAL CHARACTERISTICS²

| | | BS-435-108M10HBB-GG | BS-440-108M10HBB-GG | BS-445-108M10HBB-GG |
|---|------------------------------------|---------------------|---------------------|---------------------|
| Maximum power | P _{max} (W) | 435 | 440 | 445 |
| Power output tolerance | P _{max} (%) | 0 ~ +3 | 0 ~ +3 | 0 ~ +3 |
| Open circuit voltage | V _{oc} (V) | 39,20 | 39,40 | 39,60 |
| Short circuit current | I _{sc} (A) | 13,83 | 13,90 | 13,97 |
| Voltage at maximum power | V _{mpp} (V) | 32,64 | 32,84 | 33,04 |
| Current at maximum power | I _{mpp} (A) | 13,33 | 13,40 | 13,47 |
| Module efficiency | η _m (%) | 21,80 | 22,00 | 22,30 |
| Bifaciality performance increase* | 10 % P _{mpp} (W) | 479 (+44) | 484 (+44) | 490 (+45) |
| | 20 % P _{mpp} (W) | 522 (+87) | 528 (+88) | 534 (+89) |
| | 30 % P _{mpp} (W) | 566 (+131) | 572 (+132) | 579 (+134) |
| Nominal operating cell temperature | NOCT (°C) | 42 +/- 2/°C | | |
| Temperature coefficient of Voc | T _k (Voc) | -0,25 %/°C | | |
| Temperature coefficient of I _{sc} | T _k (I _{sc}) | +0,048 %/°C | | |
| Temperature coefficient of P _{mpp} | T _k (P _{mpp}) | -0,29 %/°C | | |
| Maximum system voltage DC (TÜV) | (V) | 1500 | | |
| Maximum series fuse rating | (A) | 30 | | |

*depending on Albedo and irradiation conditions at installation site

¹Nominal value is specified in the written warranty conditions. A possible light-induced degradation in performance is not taken into account. ²Values under Standard Test Conditions (STC): air mass 1,5 AM, irradiance 1000 W/m², cell temperature 25°C. STC measuring tolerance: ±3 % (P_{max}), ±10 % (V_{max}, I_{mp}, V_{oc}, I_{sc}). The beneficiary under the reinsurance policy is solely BAUER Solar Engineering GmbH. Please contact us to get information on how this insurance coverage benefits you as a customer. Note: please read the safety instructions and installation manual before using this product. Subject to change. © 2024 BAUER Solar Engineering GmbH. V4. Effective: 01.05.24

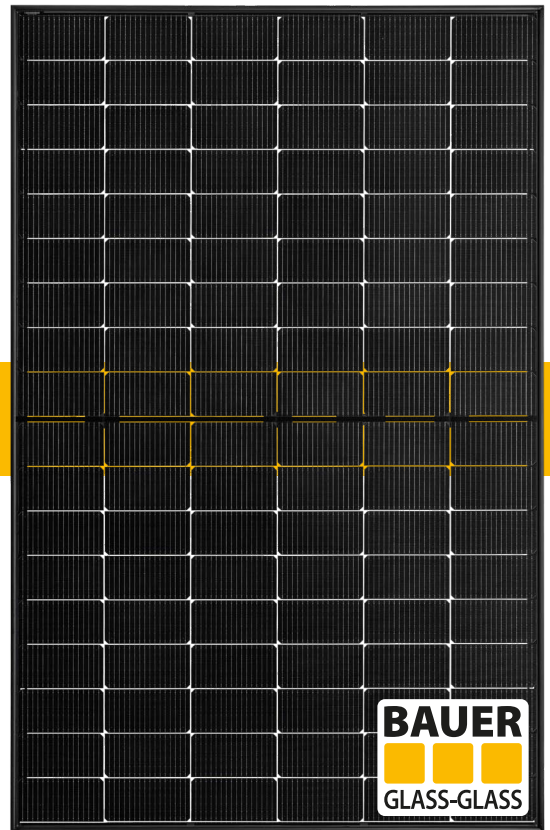
DISTRIBUTION



GENERATION N-TYPE M10

BAUER SOLARTECHNIK GLASS-GLASS PURE BS-108M10HBT-GG 435 - 445 W

BIFACIAL GLASS-GLASS HALF-CELL MODULE - TRANSPARENT

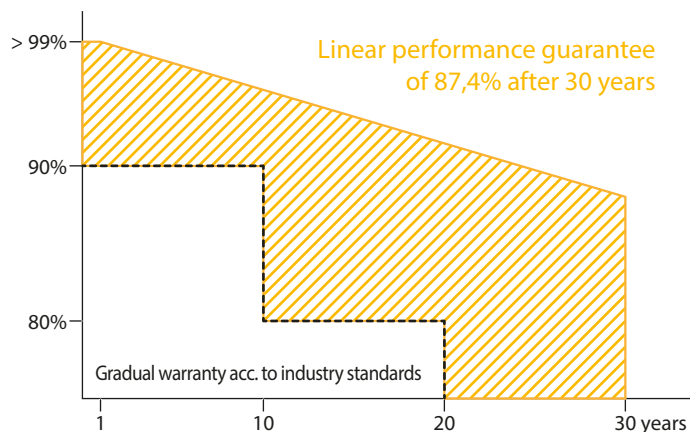


engineered & designed in
GERMANY



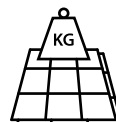
BAUER guarantees a minimum performance value of 87,4% after 30 years for the glass-glass solar modules.

A comparison of BAUER glass-glass solar modules performance guarantee to conventional glass-foil modules according to industry standards:



FIRE CLASS A

Maximum fire protection through double glazing according to the highest security requirements



STABILITY & DURABILITY

2 x 2 mm tempered anti-reflective solar glass: dirt-repellent, scratch-resistant, durable and shock-proved



BIFACIAL N-TYPE TOPCON HALF-CELLS

Up to 30% increase in yield through bifacial cells active on both sides and a transparent backside



GERMAN GUARANTOR

If necessary, it is guaranteed that a German company takes over any claim settlements



PERFORMANCE GUARANTEE

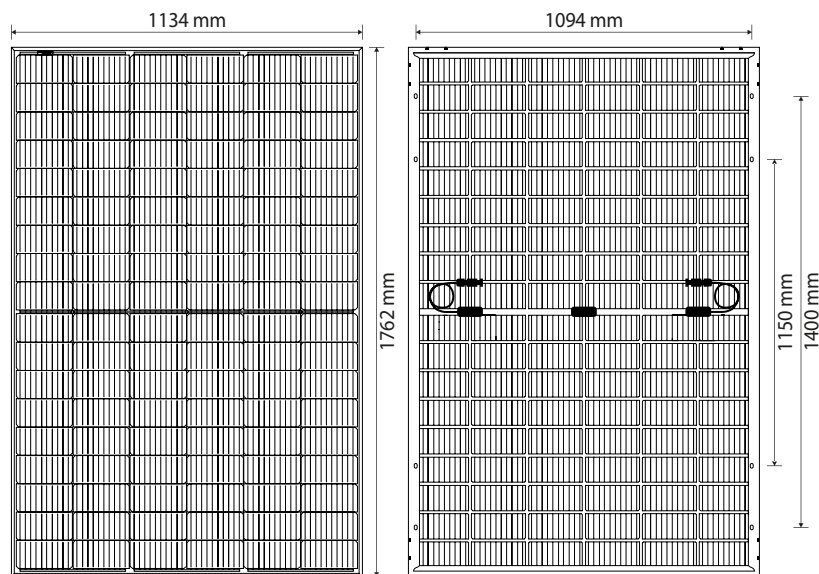
30 year warranty and a linear performance guarantee over a period of 30 years



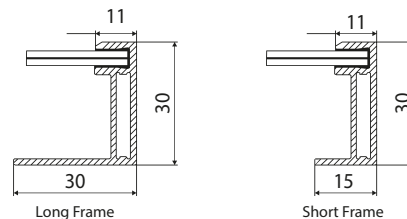
REINSURANCE COVERAGE

BAUER is reinsured for 30 years of the product's performance guarantee

DISTRIBUTION



BAUER SOLARTECHNIK GLASS-GLASS PURE BS-108M10HBT-GG 435 - 445 W



WARRANTIES¹

- 30 years product warranty
- 30 years performance guarantee

OPERATING CONDITIONS

| | |
|-----------------------|-------------------------|
| Operating temperature | -40 to 85°C |
| Static load | 5400 Pa (snow/wind) |
| Hail test | HW3 Ø 30 mm at ~ 24 m/s |

CERTIFICATION

IEC 61215, IEC 61730, _re class A acc. IEC 61730-2
IEC 61701 (Salt mist), IEC 62716 (Ammonia)

PACKAGING

| | |
|---------------------------|--------|
| Modules per pallet | 36 |
| Pallets/modules per truck | 26/936 |

PHYSICAL SPECIFICATIONS

| | |
|--------------------|--|
| Module dimensions | 1762 x 1134 x 30 mm |
| Weight | 24,5 kg |
| Frame | Anodized aluminium alloy (black) |
| Frontside | Premium Protect anti-reflection glass, 2 mm |
| Embedding material | EVA |
| Backside | Premium Protect anti-reflection glass, 2 mm |
| Solar cells | 108 monocrystalline N-type bifacial half-cells |
| Bifaciality | 80 % ± 5 % |
| Junction box(es) | IP68, 3 bypass diodes |
| Cable & connector | 1x4 mm ² , 1300 mm, Stäubli MC4/EVO2A |

ELECTRICAL CHARACTERISTICS²

| | | BS-435-108M10HBT-GG | BS-440-108M10HBT-GG | BS-445-108M10HBT-GG |
|---|------------------------------------|---------------------|---------------------|---------------------|
| Maximum power | P _{max} (W) | 435 | 440 | 445 |
| Power output tolerance | P _{max} (%) | 0 ~ +3 | 0 ~ +3 | 0 ~ +3 |
| Open circuit voltage | V _{oc} (V) | 39,20 | 39,40 | 39,60 |
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| Nominal operating cell temperature | NOCT (°C) | 42 +/- 2/°C | | |
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| Temperature coefficient of P _{mpp} | T _k (P _{mpp}) | -0,29 %/°C | | |
| Maximum system voltage DC (TÜV) | (V) | 1500 | | |
| Maximum series fuse rating | (A) | 30 | | |

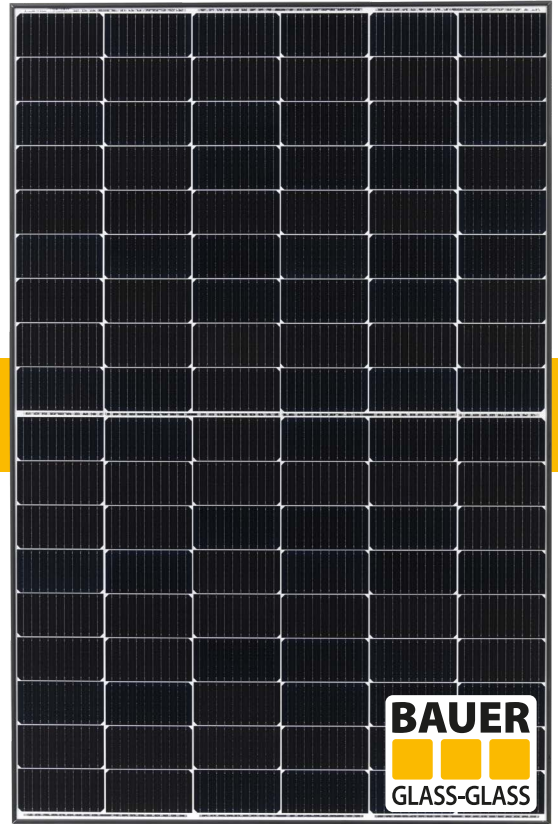
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DISTRIBUTION



GENERATION N-TYPE M10

BAUER SOLARTECHNIK GLASS-GLASS PERFORMANCE BS-108M10HBW-GG 440 - 450 W



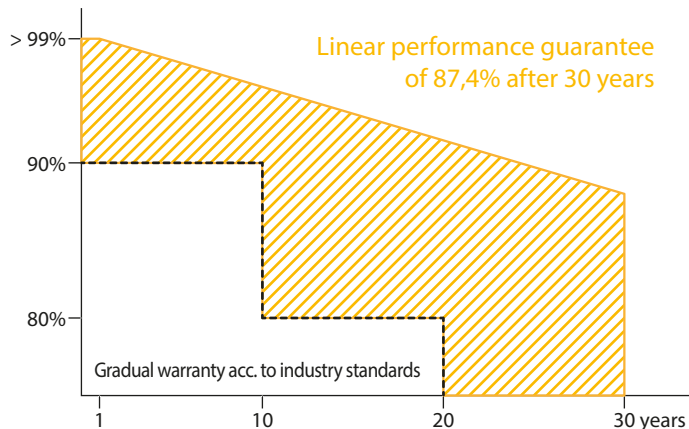
BIFACIAL GLASS-GLASS HALF-CELL MODULE - WHITE

engineered & designed in
GERMANY



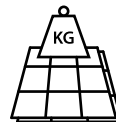
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STABILITY & DURABILITY

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BIFACIAL N-TYPE TOPCON HALF-CELLS

Up to 30% increase in yield through bifacial cells active on both sides and a transparent backside



GERMAN GUARANTOR

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PERFORMANCE GUARANTEE

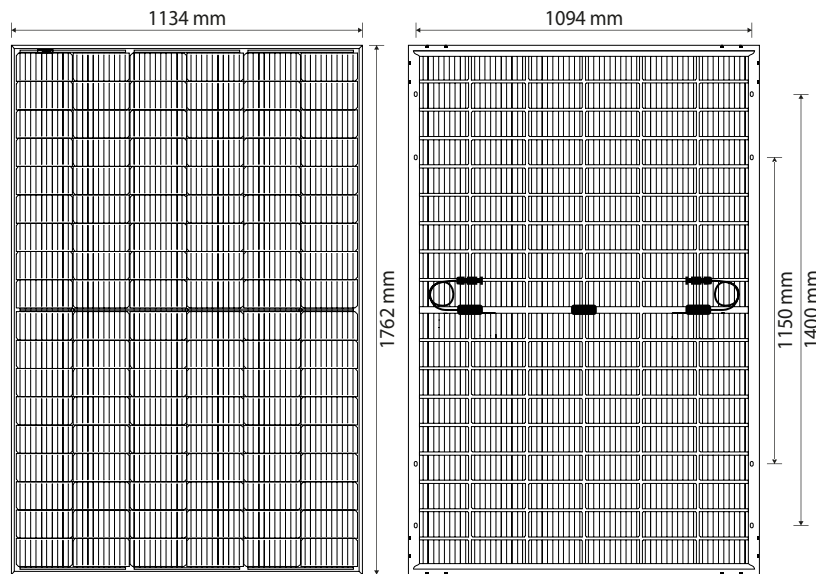
30 year warranty and a linear performance guarantee over a period of 30 years



REINSURANCE COVERAGE

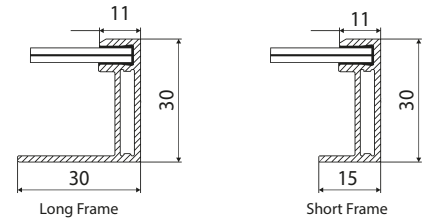
BAUER is reinsured for 30 years of the product's performance guarantee

DISTRIBUTION



BAUER SOLARTECHNIK GLASS-GLASS PERFORMANCE

BS-108M10HBW-GG 440 - 450 W



WARRANTIES¹

30 years product warranty

30 years performance guarantee

OPERATING CONDITIONS

Operating temperature -40 to 85°C

Static load 5400 Pa (snow/wind)

Hail test HW3 Ø 30 mm at ~ 24 m/s

CERTIFICATION

IEC 61215, IEC 61730, _re class A acc. IEC 61730-2

IEC 61701 (Salt mist), IEC 62716 (Ammonia)

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Modules per pallet 36

Pallets/modules per truck 26/936

PHYSICAL SPECIFICATIONS

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| Embedding material | EVA |
| Backside | White coated anti-reflection glass, 2 mm |
| Solar cells | 108 monocrystalline N-type bifacial half-cells |
| Bifaciality | 80 % ± 5 % |
| Junction box(es) | IP68, 3 bypass diodes |
| Cable & connector | 1x4 mm ² , 1300 mm, MC4 compatible |

ELECTRICAL CHARACTERISTICS²

| | | BS-440-108M10HBW-GG | BS-445-108M10HBW-GG | BS-450-108M10HBW-GG |
|---|------------------------------------|---------------------|---------------------|---------------------|
| Maximum power | P _{max} (W) | 440 | 445 | 450 |
| Power output tolerance | P _{max} (%) | 0 ~ +3 | 0 ~ +3 | 0 ~ +3 |
| Open circuit voltage | V _{oc} (V) | 39,40 | 39,60 | 39,80 |
| Short circuit current | I _{sc} (A) | 13,90 | 13,97 | 14,04 |
| Voltage at maximum power | V _{mpp} (V) | 32,84 | 33,04 | 33,24 |
| Current at maximum power | I _{mpp} (A) | 13,40 | 13,47 | 13,54 |
| Module efficiency | η _m (%) | 22,00 | 22,30 | 22,50 |
| Bifaciality performance increase* | 10 % P _{mpp} (W) | 484 (+44) | 490 (+45) | 495 (+45) |
| | 20 % P _{mpp} (W) | 528 (+88) | 534 (+89) | 540 (+90) |
| | 30 % P _{mpp} (W) | 572 (+132) | 579 (+134) | 585 (+135) |
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| Maximum system voltage DC (TÜV) | (V) | 1500 | | |
| Maximum series fuse rating | (A) | 30 | | |

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