

N-Type

ToPCon Bifacial Module Half-cell Double Glass Module

TMX 575 MH8GANT-144A

555 - 575 Wp

144 HALF-CUT TOPCon

TRIMAX Solar HALF-CUT TOPCon modules are extremely powerful and guarantee maximum reliability for high and long-term yields. Bifacial technology enables additional energy generation from the rear (up to 30%). 30 years lifespan enables 10-30% additional power generation compared to conventional P-type modules.

HIGHLY EFFICIENT DESIGN

TRIMAX Solar HALF-CUT TOPCon modules are designed to maximize module efficiency. The low-loss, original Stäubli MC4-Evo2 connectors ensure maximum performance.

COMPREHENSIVELY TESTED AND CERTIFIED

TRIMAX Solar produces high-quality and reliable photo-voltaic modules according to international standards (ISO 9001: 2015, ISO 14001: 2015, ISO 45001: 2018).

TRIMAX Solar HALF-CUT TOPCon modules are certified to IEC 61215 and IEC 61730 and have also undergone salt spray and ammonia corrosion testing. The 100% PID-free solar cells reliably provide stable yields throughout the warranty period and beyond.

30 YEARS
87.4% linear
performance
guarantee

15 YEARS
product
guarantee

0 - 5 WP
positive
tolerance



TMX 575 MH8GANT-144A

ELECTRICAL DATA AT STC

| | | | | |
|---------------------------------|-----------|-------|-------|-------|
| Rated power Pmax (Wp) | 560 | 565 | 570 | 575 |
| Rated voltage Pmax – Vmp (V) | 42,17 | 42,35 | 42,51 | 42,69 |
| Rated current Pmax – Imp (A) | 13,28 | 13,34 | 13,41 | 13,47 |
| Open circuit voltage – Voc (V) | 50,63 | 50,83 | 51,03 | 51,23 |
| Short circuit current – Isc (A) | 14,06 | 14,12 | 14,18 | 14,24 |
| Module efficiency (%) | 21,68 | 21,87 | 22,07 | 22,26 |
| Sorting (plus tolerance) | 0 ~ +5 Wp | | | |

STC (Standard Test Conditions) : Irradiance 1000 W/m², Air Mass = 1.5, Cell Temperature 25°C, Measurement Tolerance Pmax ± 3%, Voc ± 3%, Isc ± 4%

ELECTRICAL DATA AT NOCT

| | | | | |
|---------------------------------|-------|-------|-------|-------|
| Power at Pmax (Wp) | 423 | 427 | 431 | 435 |
| Voltage at Pmax – Vmp (V) | 39,64 | 39,79 | 39,98 | 40,13 |
| Current at Pmax – Imp (A) | 10,67 | 10,73 | 10,78 | 10,84 |
| Open circuit voltage – Voc (V) | 48,26 | 48,45 | 48,64 | 48,83 |
| Short circuit current – Isc (A) | 11,35 | 11,40 | 11,45 | 11,49 |

NOCT (normal operating cell temperature) : Irradiation 800W/m², Air Mass = 1.5, Wind Speed 1m/s, Ambient Temperature 20°C

With Different Power Generation Gain (regarding 570W as an example)

| Power Gain (%) | Power Output (Wp) | Voltage Mpp-Vmpp (V) | Current Mpp-Imp (A) | Voltage Open Circuit-Voc (V) | Short Circuit Current-Isc (A) |
|----------------|-------------------|----------------------|---------------------|------------------------------|-------------------------------|
| 10 | 627 | 42,51 | 14,75 | 51,03 | 15,60 |
| 15 | 656 | 42,51 | 15,42 | 51,03 | 16,31 |
| 20 | 684 | 42,51 | 16,09 | 51,03 | 17,02 |
| 25 | 713 | 42,51 | 16,76 | 51,03 | 17,73 |
| 30 | 741 | 42,51 | 17,43 | 51,03 | 18,43 |

SPECIFICATIONS

| | |
|-----------------|--|
| Cells | 182 mm HALF-CUT TOPCon |
| Number of cells | 144 (6x24) |
| Dimensions | 2278 x 1134 x 30 mm |
| Weight | 32,5 kg |
| Glass | 2,0 mm, heat strengthened glass(Front/Back) |
| Frame | Anodized Aluminium alloy,silver |
| Junction-box | IP68, 3 Bypass diodes |
| Cable | UV-resistant 4,0 mm ² 1200 mm |
| Connector | Stäubli MC4-Evo2 ¹ |
| Bifaciality | 80±5% |

TEMPERATURE COEFFICIENT

| | |
|------------------------------|------------|
| Temperature coefficient Pmax | -0,310 %/K |
| Temperature coefficient Voc | -0,26 %/K |
| Temperature coefficient Isc | +0,046 %/K |
| NMOT | 42 ±2°C |

LIMITING VALUES

| | |
|----------------------------|-----------------------|
| Operating temperature (°C) | -40 ~ +85 |
| Maximum system voltage (V) | 1500 |
| Max Series Fuse Rating (A) | 30 |
| Safety class | Class II |
| Maximum load capacity (Pa) | Snow 5400 / Wind 2400 |

PACKAGING

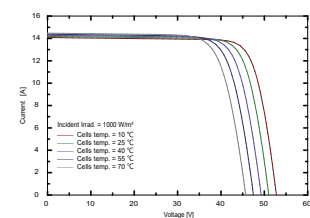
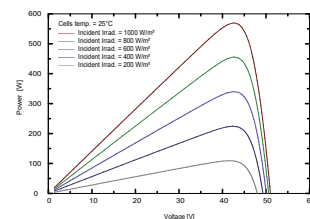
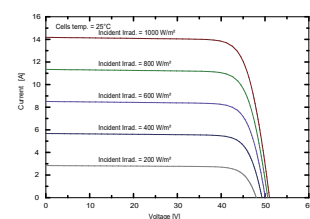
| | |
|-----------------------|--------|
| Container | 40' HC |
| Modules per pallet | 36 |
| Modules per Container | 720 |

Technical data are average values and may vary slightly. The associated data of the individual measurement are decisive. Possible light-induced degradation of the power after commissioning is not taken into account. Technical data is subject to change without notice. The current data sheets are available online at www.trimax-solar.com. All specifications in this data sheet comply with DIN EN 50380. Further information can be found in the installation manual. WEEE

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¹ or comparable

ELECTRICAL CHARACTERISTICS (570W)



TECHNICAL DRAWING

