

## PHOTOVOLTAIC MODULE TMX 605 MH9-120T

**BIFACIAL - TRANSPARENT BACKSHEET**

**585 - 605 W<sub>p</sub>**

**120 HALF-CUT PERC**

TRIMAX Solar HALF-CUT PERC modules are extremely efficient and guarantee maximum reliability for high and long-term yields. The transparent back sheet allows up to 30% additional power gain from the back side.

### HIGHLY EFFICIENT DESIGN

TRIMAX Solar HALF-CUT PERC 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 photovoltaic modules according to international standards (ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 2018 : 2018). TRIMAX Solar HALF-CUT PERC modules are certified to IEC 61730 and IEC 61215 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.

**25 YEARS  
85% linear  
performance  
guarantee**

**15 YEARS  
product  
guarantee**

**0 - 5 WP  
positive  
tolerance**

# TMX 605 MH9-120T

## ELECTRICAL DATA AT STC

|  | TMX 585 MH9-120T | TMX 590 MH9-120T | TMX 595 MH9-120T | TMX 600 MH9-120T | TMX 605 MH9-120T |
|--|------------------|------------------|------------------|------------------|------------------|
| Rated power P <sub>max</sub> (Wp)                    | 585              | 590              | 595              | 600              | 605              |
| Rated voltage P <sub>max</sub> – V <sub>mp</sub> (V) | 33.95            | 34.14            | 34.35            | 34.54            | 34.75            |
| Rated current P <sub>max</sub> – I <sub>mp</sub> (A) | 17.23            | 17.28            | 17.32            | 17.37            | 17.41            |
| Open circuit voltage – V <sub>oc</sub> (V)           | 41.24            | 41.44            | 41.64            | 41.84            | 42.04            |
| Short circuit current – I <sub>sc</sub> (A)          | 18.60            | 18.65            | 18.70            | 18.75            | 18.80            |
| Module efficiency (%)                                | 20.7             | 20.8             | 21.0             | 21.2             | 21.4             |
| Sorting (plus tolerance)                             | 0 ~ +5 Wp        |                  |                  |                  |                  |

STC (Standard Test Conditions) : Irradiance 1000 W/m<sup>2</sup>, Air Mass = 1.5, Cell Temperature 25°C, Measurement Tolerance P<sub>max</sub> ± 3%, V<sub>oc</sub> ± 2%, I<sub>sc</sub> ± 2%

## ELECTRICAL DATA AT NOCT

|   |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|
| Power at P <sub>max</sub> (Wp)                    | 449.42 | 453.26 | 457.10 | 460.94 | 464.78 |
| Voltage at P <sub>max</sub> – V <sub>mp</sub> (V) | 30.95  | 31.12  | 31.31  | 31.49  | 31.67  |
| Current at P <sub>max</sub> – I <sub>mp</sub> (A) | 14.52  | 14.56  | 14.60  | 14.64  | 14.67  |
| Open voltage current – V <sub>oc</sub> (V)        | 38.08  | 38.26  | 38.45  | 38.63  | 38.81  |
| Short circuit current – I <sub>sc</sub> (A)       | 15.81  | 15.86  | 15.90  | 15.94  | 15.98  |

NOCT (normal operating cell temperature) : Irradiation 800W/m<sup>2</sup>, Air Mass = 1.5, Wind Speed 1m/s, Ambient Temperature 20°C

## ELECTRICAL CHARACTERISTICS WITH 10% REAR SIDE POWER GAIN

|   |       |       |       |                           |       |
|---|-------|-------|-------|---------------------------|-------|
| Power output                                      | 644   | 649   | 655   | 660                       | 666   |
| Voltage at P <sub>max</sub> – V <sub>mp</sub> (V) | 33.95 | 34.14 | 34.35 | 34.54                     | 34.7  |
| Current at P <sub>max</sub> – I <sub>mp</sub> (A) | 18.95 | 19.01 | 19.05 | 19.11                     | 19.15 |
| Open voltage current – V <sub>oc</sub> (V)        | 41.24 | 41.44 | 41.64 | 41.84 </td <td>42.04</td> | 42.04 |
| Short circuit current – I <sub>sc</sub> (A)       | 20.46 | 20.52 | 20.57 | 20.63                     | 20.68 |

Rear side power gain: The additional gain from the rear side compared to the power of the front side at standard test conditions. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground. Power bifaciality 65±5%.

## SPECIFICATIONS

|                   |  |
|-------------------|--|
| Cells             | 210 mm HALF-CUT PERC                         |
| Number of cells   | 120 (6x20)                                   |
| Dimensions        | 2172 x 1303 x 35 mm                          |
| Weight            | 31,0 kg                                      |
| Glass             | 3,2 mm, AR tempered glass                    |
| Frame             | aluminum, silver or black                    |
| Junction-box      | IP68, 3 Bypass diodes                        |
| Cable             | UV-resistant   4,0 mm <sup>2</sup>   1200 mm |
| Connerctor        | Stäubli MC4-Evo2 <sup>1</sup>                |
| Application class | A  |

## TEMPERATURE COEFFICIENT

|  |            |
|--|------------|
| Temperature coefficient P <sub>max</sub> | -0,353 %/K |
| Temperature coefficient V <sub>oc</sub>  | -0,272 %/K |
| Temperature coefficient I <sub>sc</sub>  | +0,026 %/K |
| NMOT                                     | 45 ±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

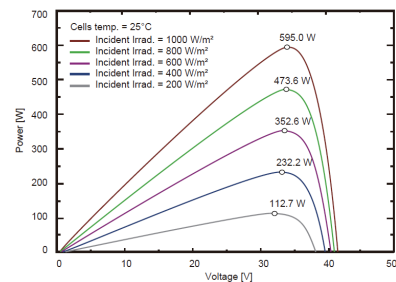
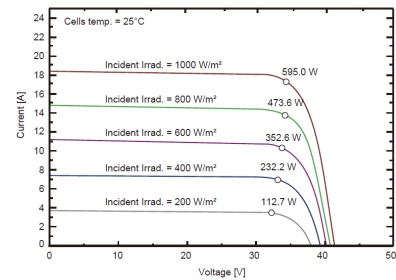
|                       |        |
|-----------------------|--------|
| Container             | 40' HC |
| Modules per pallet    | 31     |
| Modules per container | 558    |

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](http://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

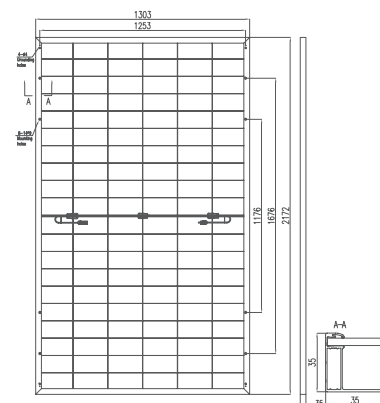
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<sup>1</sup> or comparable

## ELECTRICAL CHARACTERISTICS (595W)



## TECHNICAL DRAWING



\*400mm mounting holes are only suitable for 6005-T6 aluminum frame