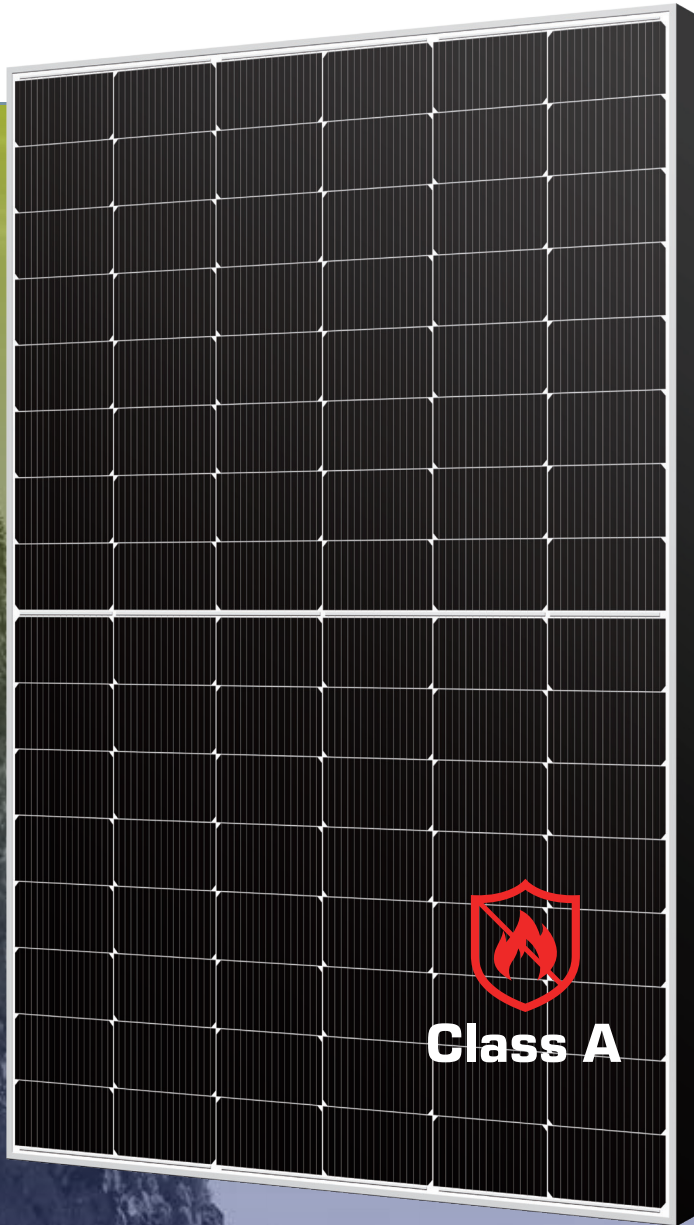


N-Type



TOPCon Bifacial Module Double Glass Module

TMX 465 MH8RGANT-96A

440 - 465 Wp

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 photovoltaic 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.



performance guarantee



product guarantee



positive tolerance

TMX465 MH8RGANT-96A

ELECTRICAL DATA AT STC

Rated power Pmax (Wp)	440	445	450	455	460	465
Rated voltage Pmax – Vmp (V)	29.57	29.81	30.05	30.28	30.51	30.75
Rated current Pmax – Imp (A)	14.88	14.93	14.98	15.03	15.08	15.13
Open circuit voltage – Voc (V)	35.43	35.69	35.95	36.21	36.46	36.72
Short circuit current – Isc (A)	15.61	15.65	15.69	15.75	15.80	15.85
Module efficiency (%)	22.02	22.27	22.52	22.77	23.02	23.27
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)	334	338	342	345	349	353
Voltage at Pmax – Vmp (V)	27.81	28.03	28.25	28.47	28.69	28.91
Current at Pmax – Imp (A)	12.01	12.05	12.09	12.13	12.17	12.21
Open circuit voltage – Voc (V)	33.80	34.05	34.30	34.54	34.78	35.03
Short circuit current – Isc (A)	12.60	12.63	12.66	12.71	12.75	12.79

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

SPECIFICATIONS

Cells	182 x 210R mm HALF-CUT TOPCon
Number of cells	96 (6x16)
Dimensions	1762 x 1134 x 30 mm
Weight	24 kg
Glass	2.0 mm, AR tempered glass
Frame	Aluminium, black
Junction-box	IP68.3 Bypass diodes
Cable	UV-resistant 4.0 mm ² 1200 mm
Connector	MC4-EVO2 / MC4 compatible
Bifaciality	80±5%
Hagelklasse	Ice Ball Ø45mm

TEMPERATURE COEFFICIENT

Temperature coefficient Pmax	-0.310 %/°C
Temperature coefficient Voc	-0.26 %/°C
Temperature coefficient Isc	+0.046 %/°C
NMOT	42±2°C

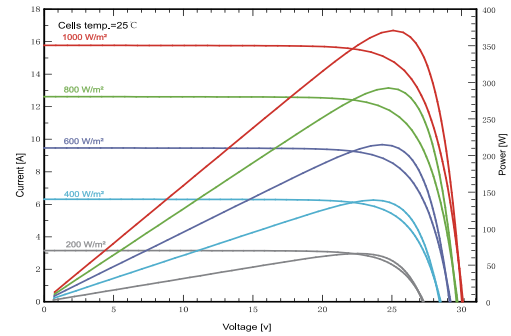
LIMITING VALUES

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

PACKAGING

Container	20GP	40HQ
Modules per pallet	36	36
Modules per Container	216	936

ELECTRICAL CHARACTERISTICS (445W)



TECHNICAL DRAWING

