

N-Type

TRIMAX solar



TOPCon Bifacial Module Double Glass Module

TMX 455 MH8RGANT-96B

FULL BLACK

430 - 455 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.

30

YEARS

performance guarantee

30

YEARS

product guarantee

0-5

WP

positive tolerance

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TMX455 MH8RGANT-96B

ELECTRICAL DATA AT STC

Rated power Pmax (Wp)	430	435	440	445	450	455
Rated voltage Pmax – Vmp (V)	29.10	29.34	29.57	29.81	30.05	30.28
Rated current Pmax – Imp (A)	14.78	14.83	14.88	14.93	14.98	15.03
Open circuit voltage – Voc (V)	34.92	35.18	35.43	35.69	35.95	36.21
Short circuit current – Isc (A)	15.49	15.56	15.61	15.65	15.69	15.75
Module efficiency (%)	21.52	21.77	22.02	22.27	22.52	22.77
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)	324	328	333	337	341	346
Voltage at Pmax – Vmp (V)	27.27	27.51	27.84	28.08	28.32	28.59
Current at Pmax – Imp (A)	11.88	11.92	11.96	12.00	12.04	12.08
Open circuit voltage – Voc (V)	33.04	33.29	33.52	33.77	34.02	34.26
Short circuit current – Isc (A)	12.47	12.53	12.57	12.60	12.63	12.68

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(Front-Back)
Frame	Aluminium,black
Junction-box	IP68,3 Bypass diodes
Cable	UV-resistant 4.0 mm ² 1200 mm
Connector	Stäubli MC4-Evo2 ¹ /MC4 compatible
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

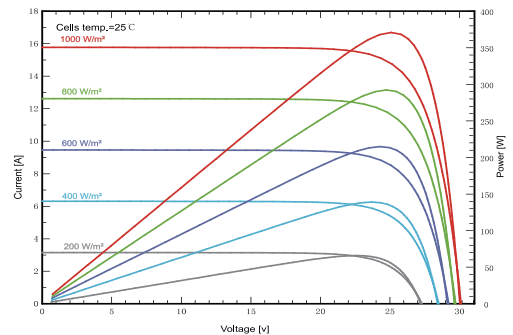
LIMITING VALUES

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

PACKAGING

Container	40' HC
Modules per pallet	36
Modules per Container	936

ELECTRICAL CHARACTERISTICS (445W)



TECHNICAL DRAWING

