

## Half-cell Monocrystalline Module

### TMX 420 MH8NT –108B

**Full Black**

**405 - 420 Wp**

#### **108 HALF-CUT TOPCon**

TRIMAX Solar HALF-CUT TOPCon modules are extremely efficient and guarantee maximum reliability for high and long-term yields.

#### **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**  
87.4% linear  
performance  
guarantee

**30 YEARS**  
product  
guarantee

**0 - 5 WP**  
positive  
tolerance

# TMX 435 MH8NT-108B

## ELECTRICAL DATA AT STC

Rated power Pmax (Wp)	405	410	415	420	425
Rated voltage Pmax – Vmp (V)	31.06	31.25	31.44	31.63	31.81
Rated current Pmax – Imp (A)	13.04	13.12	13.20	13.28	13.36
Open circuit voltage – Voc (V)	37.45	37.64	37.83	38.02	38.21
Short circuit current – Isc (A)	13.81	13.89	13.97	14.05	14.13
Module efficiency (%)	20.74	21.00	21.25	21.51	21.76
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 Pmax ± 3%, Voc ± 3%, Isc ± 4%

## ELECTRICAL DATA AT NOCT

Power at Pmax (Wp)	306	310	314	318	322
Voltage at Pmax – Vmp (V)	29.20	29.38	29.57	29.75	29.93
Current at Pmax – Imp (A)	10.48	10.55	10.62	10.69	10.76
Open circuit voltage – Voc (V)	35.59	35.78	35.97	36.16	36.35
Short circuit current – Isc (A)	11.12	11.18	11.24	11.31	11.37

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

## SPECIFICATIONS

Cells	182 mm HALF-CUT TOPCon
Number of cells	108 (6x18)
Dimensions	1722 x 1134 x 30 mm
Weight	21,5 kg
Glass	High transmission Glass 3.2mm
Frame	Anodized Aluminium alloy, black
Junction-box	IP68, 3 Bypass diodes
Cable	UV-resistant   4,0 mm <sup>2</sup>   1200 mm
Connector	Stäubli MC4-Evo2 <sup>1</sup>

## 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)	25
Safety class	class II
Maximum load capacity (Pa)	snow 5400 / wind 2400

## PACKAGING

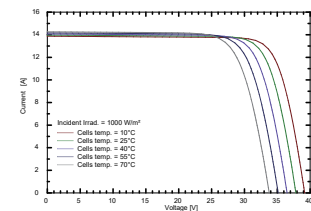
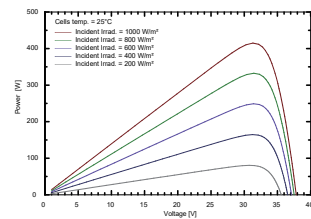
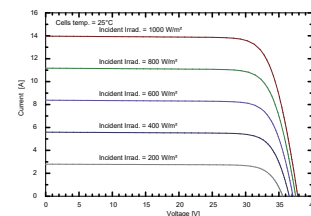
Container	40' HC
Modules per pallet	36
Modules per Container	936

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 (415W)



## TECHNICAL DRAWING

