

PHOTOVOLTAIC MODULE TMX 415 MH8-108A

395 - 415 Wp

108 MONOCRISTALLIN HALF-CUT CELL TECHNOLOGY

TRIMAX Solar Modules with half-cut cell technology have very high-power output. The half-cut cell technology improves the performance and durability of the module.

OPTIMISED DESIGN

TRIMAX Solar modules with half-cut cells technology and 9 busbars are designed to maximize the module efficiency. The 120 cm extra-long cables allow more installation flexibility. The original MC4 connectors reduce power losses and maximize the power output of your PV project.

FULLY TESTED AND CERTIFIED

The TRIMAX Solar cells are 100% PID-free. The modules are ammonia- and salt spray tested. TRIMAX Solar production facilities are ISO 9001, ISO 14001 and OHSAS 18001 certified.

15 YEARS
product
guarantee

12 YEARS
90%
performance
guarantee

25 YEARS
80%
performance
guarantee

TMX 415 MH8-108A

ELECTRICAL DATA AT STC

	TMX 395 MH8-108A	TMX 400 MH8-108A	TMX 405 MH8-108A	TMX 410 MH8-108A	TMX415 MH8-108A
Rated power Pmax (Wp)	395	400	405	410	415
Rated voltage Pmax – Vmp (V)	30,76	30,98	31,23	31,44	31,66
Rated current Pmax – Imp (A)	12,84	12,91	12,97	13,04	13,11
Open circuit voltage – Voc (V)	36,91	37,10	37,33	37,58	37,83
Short circuit current – Isc (A)	13,71	13,80	13,87	13,94	14,02
Module efficiency (%)	20,2	20,4	20,7	20,9	21,2
Sorting (plus tolerance)	0 ~ +5 Wp				

STC (Standard Test Conditions) : irradiance 1000 W/m², AM = 1,5, cell temperature 25°C, measurement tolerance Pmax ± 3%, Voc ± 3%, Isc ± 3%

ELECTRICAL DATA AT NOCT

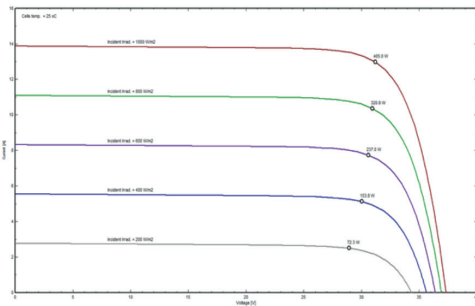
Power at Pmax (Wp)	303,45	307,29	311,13	314,98	318,82
Voltage at Pmax – Vmp (V)	28,04	28,24	28,46	28,66	28,85
Current at Pmax – Imp (A)	10,82	10,88	10,93	10,99	11,05
Open voltage current – Voc (V)	34,08	34,25	34,47	34,70	34,93
Short circuit current – Isc (A)	11,66	11,73	11,97	11,85	11,92

NOCT (normal operating cell temperature) : irradiance 800W/m², Air Mass = 1,5, wind speed 1m/s, ambient temperature 20°C, cell operating temperature 45 ±2°C

LIMITING VALUES

Operating temperature (°C)	-40 ~ +85
Maximum system voltage (V)	1500
Maximum return current (A)	25
Safety class	class II
Maximum load capacity (Pa)	snow 5400 / wind 2400

ELECTRICAL CHARACTERISTICS (405W)



TEMPERATURE COEFFICIENT

Temperature coefficient Pmax	-0,354 %/°C
Temperature coefficient Voc	-0,266 %/°C
Temperature coefficient Pmax	+0,046 %/°C

SPECIFICATION

Cells	monocrystalline silicon
Number of cells	108 (6x18)
Dimensions	1724 x 1134 x 35 mm
Weight	19,5 kg
Glass	3,2 mm, high transmission, AR tempered glass
Frame	aluminum, silver or black
Junction-box	IP68, 3 bypass diodes
Cable	solar cable 4,0 mm ² UV-resistant, 1200 mm
Connector	Stäubli MC4
Application class	A

PACKAGING

Container	40' HQ
Modules per pallet	31
Modules per container	806

The specifications and average values can vary slightly. Relevant is the corresponding data of the individual measurement. Specifications are subject to change without notice. All information given in this data sheet corresponds to DIN EN 50380. A potential light-induced degradation of the power after commissioning is not considered here. Further information in the installation manuals.

TECHNICAL DRAWING

