TRIMAX solar

PHOTOVOLTAIC MODULE
TMX 410 MH8–108T

BIFACIAL - TRANSPARENT BACKSHEET

390 - 410 Wp

108 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 photo-voltaic 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

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CE

TÜV SÜD

TMX 410 MH8–108T

ELECTRICAL DATA AT STC	TMX 390 MH8-108T	TMX 395 MH8-108T	TMX 400 MH8-108T	TMX 405 MH8-108T	TMX 410 MH8-108T
Rated power Pmax (Wp)	390	395	400	405	410
Rated voltage Pmax – Vmp (V)	30,59	30,76	30,98	31,23	31,44
Rated current Pmax – Imp (A)	12,75	12,84	12,91	12,97	13,04
Open circuit voltage – Voc (V)	36,67	36,91	37,10	37,33	37,58
Short circut current – Isc (A)	13,63	13,71	13,80	13,87	13,94
Module efficiency (%)	20,0	20,2	20,5	20,7	21,0
Sorting (plus tolerance)			0 ~ +5 Wp		

STC (Standard Test Conditions) : Irradiance 1000 W/m^2, Air Mass = 1.5 , Cell Temperature 25°C, Measurement Tolerance Pmax ± 3%, Voc ± 2%, Isc ± 2%

ELECTRICAL DATA AT NOCT					
Power at Pmax (Wp)	299,61	303,45	307,29	311,13	314,98
Voltage at Pmax – Vmp (V)	27,88	28,04	28,24	28,46	28,66
Current at Pmax – Imp (A)	10,75	10,82	10,88	10,93	10,99
Open voltage current – Voc (V)	33,86	34,08	34,25	34,47	34,70
Short circut current – Isc (A)	11,59	11,66	11,73	11,79	11,85

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

ELECTRICAL CHARACTERRISTICS WITH 10% REAR SIDE POWER GAIN					
Power output	429	435	440	446	451
Voltage at Pmax – Vmp (V)	30,59	30,76	30,98	31,23	41,44
Current at Pmax – Imp (A)	14,03	14,12	14,20	14,27	14,34
Open voltage current – Voc (V)	36,67	36,91	37,10	37,33	37,58
Short circut current – Isc (A)	14,99	15,08	15,18	15,26	15,33

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	182 mm HALF-CUT PERC
Number of cells	108 (6x18)
Dimensions	1722 x 1134 x 35 mm
Weight	19,5 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^2 | 1200 mm
Connerctor	Stäubli MC4-Evo2 [1]
Application class	A

TEMPERATURE COEFFICIENT

Temperature coefficient Pmax	-0,353 %/K
Temperature coefficient Voc	-0,272 %/K
Temperature coeffizient Isc	+0,026 %/K
NMOT	45 ±2°C

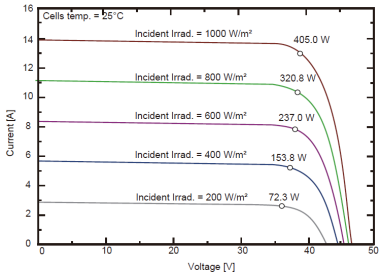
LIMITING VALUES

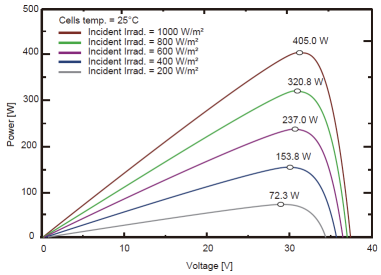
Operating temperature (°C)	-40 ~ +85
Maximum system voltage (V)	1500
Max Series Fuse Rating (A)	25
Safty class	class II
Maximum load capacity (Pa)	snow 5400 / wind 2400

PACKAGING

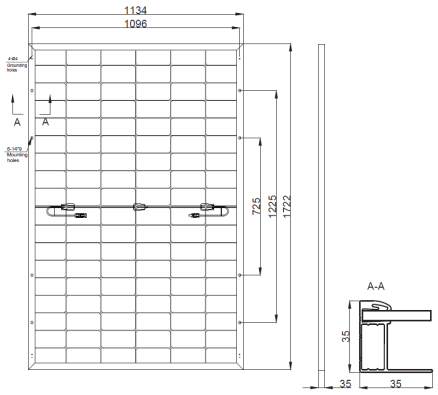
Container	40' HC
Modules per pallet	31
Modules per container	806

ELECTRICAL CHARACTERISICS (405)





TECHNICAL DRAWING



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. All specifications in this data sheet comply with DIN EN 50380. Further information can be found in the installation manual. WEEE Reg-No.: DE65803239 | © TRIMAX Solar 09/22 Version 2.4

[1] or compareable

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