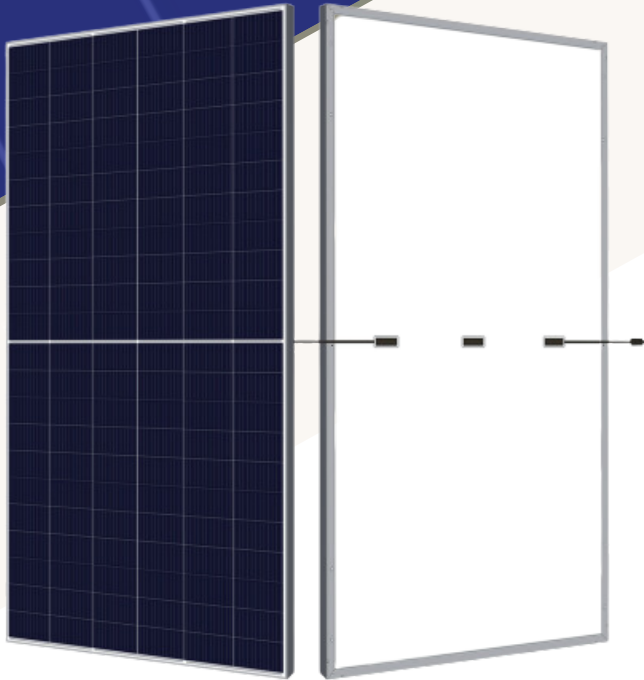


PERC**MAX**

HIGH PERFORMANCE
MONOCRYSTALLINE
P.E.R.C MODULE



108

TM - 390/410M-108HC







108 CELL
Mono PERC Module

390 - 410Wp
Power Output Range

1500VDC
Maximum System Voltage

20.97%
Maximum Efficiency

KEY SALIENT FEATURES

-  Industry leading lowest thermal co-efficient of power
-  Industry leading 15 years product warranty
-  Excellent low irradiance performance
-  Excellent PID resistance
-  Positive power tolerance of 0~+3%
-  Fully automated production at all stages
-  Fully Reduced power loss by minimizing the effect of shadow shading (9 - 18 Busbar)
-  European Warranty & After - Sales Service



TAMESOL BUILDING A GREEN FUTURE S.L

TAMESOL is a global provider of high-efficiency PV panels with a 10GW annual production capacity and a 100% automated production line, innovating state-of-the-art products for over 15 years. Our panels have been installed in more than 50 countries, with over 20 million panels already connected to the grid.

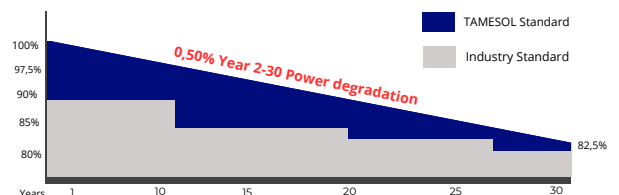
Tel : +34 872 222 388

E - mail: info@tamesol.com Website: www.tamesol.com

TAMESOL
Energia para vivir

LINEAR PERFORMANCE WARRANTY

15 year Product Warranty / 30-Year Linear Power Warranty



Since 2007, building a green future

20,97%

MAX MODULE
EFFICIENCY

0 - +3%

POWER
TOLERANCE

2,0%

FIRST YEAR POWER
DEGRADATION

0,50%

YEAR 2-30
POWER DEGRADATION

PERC CELL

Lower operating temperature

ELECTRICAL CHARACTERISTICS

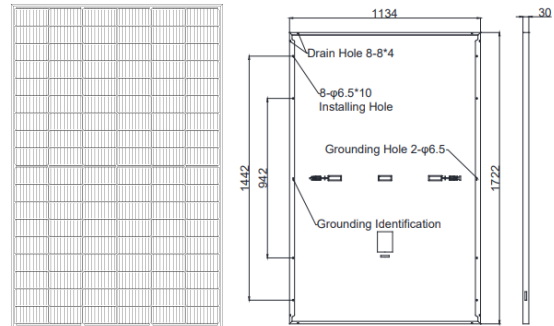
STC: AM1.5 1.000W/m2 NOTC: AM1.5 800W/m2 20° 1 m/s Test uncertainty for Pmax 0 - +3%

Module type	TM - 390M-108HC		TM - 395M-108HC		TM - 400M-108HC		TM - 405M-108HC		TM - 410M-108HC	
	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Testing condition										
Maximum Power (Pmax/w)	390	316	395	316	400	320	405	324	410	328
Open Circuit Voltage (Voc/V)	36,70	36,21	36,75	36,41	36,95	36,61	37,15	36,81	37,35	37,01
Short Circuit Current (Isc/A)	13,59	11,04	13,72	11,08	13,78	11,13	13,84	11,18	13,90	11,23
Voltage at Maximum Power (Vmp/V)	30,53	30,38	30,87	30,58	31,07	30,78	31,27	30,98	31,47	31,28
Current at maximum Power (Imp/A)	12,78	10,26	12,80	10,33	12,87	10,40	12,95	10,46	13,03	10,52
Module Efficiency (%)	19,95%		20,20%		20,46%		20,71%		20,97%	

MECHANICAL PARAMETERS

Cell Orientation	single crystal PERC182x91mm (108 pieces)
Junction Box	IP68, three diodes
Output Cable	300mm, (can be customized)
Glass	3.2mm tempered coated glass, low iron
Frame	Anodized aluminum alloy frame
Weight	21,5 - 22 kg
Dimensión	1722/1724*1134*30mm
Packaging	36/37 pcs*pallet / 936/962pcs*40HQ

PHYSICAL CHARACTERISTICS



OPERATING PARAMETERS

Operational Temperature	-40°C - +85°C
Power Output Tolerance	(0, +3%)
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25 A
Nominal Operating Cell Temperature	45±2°C
Protection Glass	Class II
Fire Rating	Class C

MECHANICAL LOADING

Front Side Maximum Static Loading	5400 PA
Rear Side Maximum Static Loading	2400 PA

TEMPERATURA RATINGS (STC)

Temperature Coefficient of Isc	+0.05%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Pmax	-0.38%/°C

PACKING MANNER

Container	40ft(HQ)
Number of modules per container	936/962
Number of modules per pallet	36/37
Number of pallets per container	26

TAMESOL Authorized Solar Dealer

Note: The specifications are obtained under the Standard Test Conditions (STCs): 1000 W/m2 solar irradiance, 1.5 Air Mass, and cell temperature of 25°C. The NOCT is obtained under the Test Conditions: 800 W/m2, 20°C ambient temperature, 1m/s wind speed, AM 1.5 spectrum.

Please contact info@tamesol.com for technical support. The actual transactions will be subject to the contracts. This parameter is for reference only and it is not a part of the contracts. The specifications are subject to change without prior notice.