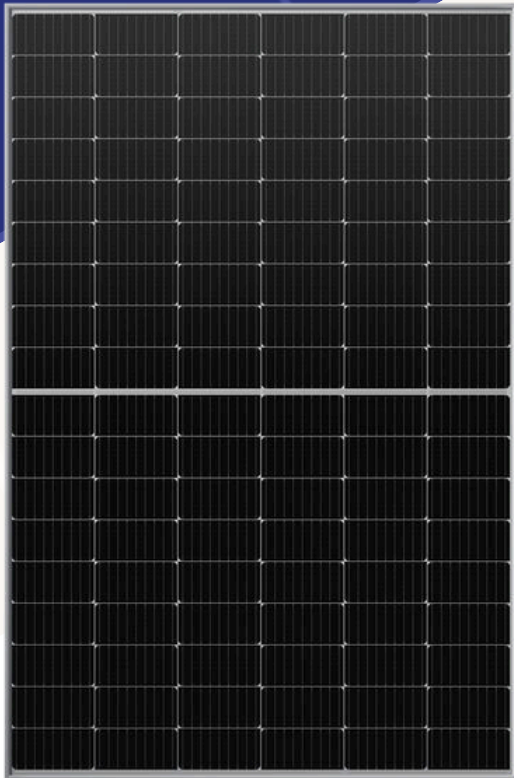


PERC**MAX**

HIGH PERFORMANCE
MONOCRYSTALLINE
P.E.R.C MODULE

108



TM - 390/410M-108HC

108 CELL
Mono PERC Module

390 - 410W_p
Power Output Range

1500VDC
Maximum System Voltage

20.97%
Maximum Efficiency

KEY SALIENT FEATURES



Industry leading lowest thermal co-efficient of power



Industry leading 25 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 - 12 Busbar)



European Warranty & After - Sales Service



TAMESOL SOLAR GROUP 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

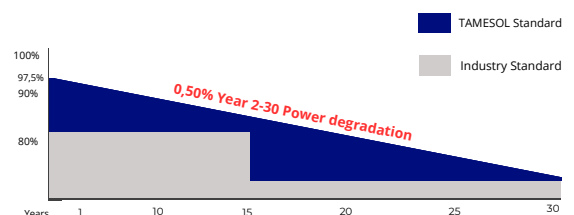
E - mail: info@tamesol.com Website: www.tamesol.com

TAMESOL
— be bright, go solar —

Since 2007, building a green future

LINEAR PERFORMANCE WARRANTY

25 year Product Warranty / 30-Year Linear Power Warranty



20,97%

MAX MODULE
EFFICIENCY

0 - 3%

POWER
TOLERANCE

2,5%

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 +3%

Module type	TM - 390 M-108HC		TM - 395 M-108HC		TM - 400 M-108HC		TM - 405M-108HC		TM - 410M-148HC	
	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Testing condition										
Maximum Power (Pmax/w)	390	290	395	294	400	298	405	301	410	305
Open Circuit Voltage (Voc/V)	36,7	34,7	36,9	34,9	37,1	35,1	37,3	35,3	37,5	35,5
Short Circuit Current (Isc/A)	13,59	10,61	13,66	10,69	13,73	10,78	13,81	10,82	13,88	10,92
Voltage at Maximum Power (Vmp/V)	30,53	28,87	30,7	29,04	30,87	29,2	31,03	29,37	31,2	29,54
Current at maximum Power (Imp/A)	12,78	10,05	12,87	10,13	12,96	10,21	13,06	10,25	13,15	8,49
Module Efficiency (%)	19,95%	14,83%	20,20%	15,04%	20,46%	15,24%	20,72%	15,40%	20,70%	15,41%

MECHANICAL PARAMETERS

Cell Orientation single crystal PERC182x91mm (108 pieces)

Junction Box IP68, three diodes

Output Cable 4.0mm² 1200mm(+) / 1200mm(-) or customized

Glass 3.2mm tempered coated glass, low iron

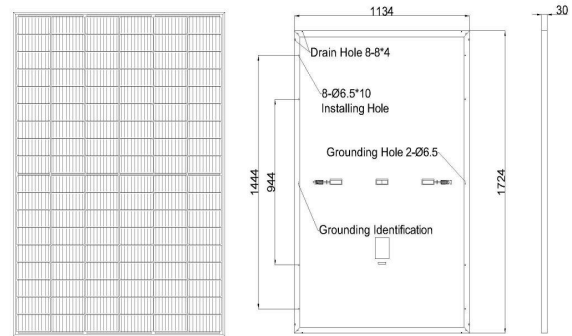
Frame Anodized aluminum alloy frame

Weight 21 kg

Dimensión 1724*1134*30mm

Packaging 36 pcs*pallet / 366pcs*20GP / 936pcs*40HC

PHYSICAL CHARACTERISTICS



OPERATING PARAMETERS

Operational Temperature -40°C - +85°C

Power Output Tolerance (0, +3%)

Voc and Isc Tolerance ±3%

Maximum System Voltage 1500V DC

Maximum Series Fuse Rating 20 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

Hailstone Test Diameter 25mm, impact speed 23m/s

TEMPERATURA RATINGS (STC)

Temperature Coefficient of Isc +0.05%/°C

Temperature Coefficient of Voc -0.27%/°C

Temperature Coefficient of Pmax -0.35%/°C

PACKING MANNER

Container 40ft(HQ)

Number of modules per container 936

Number of modules per pallet 66

Number of pallets per container 26

Box gross weight (kg) 840

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.