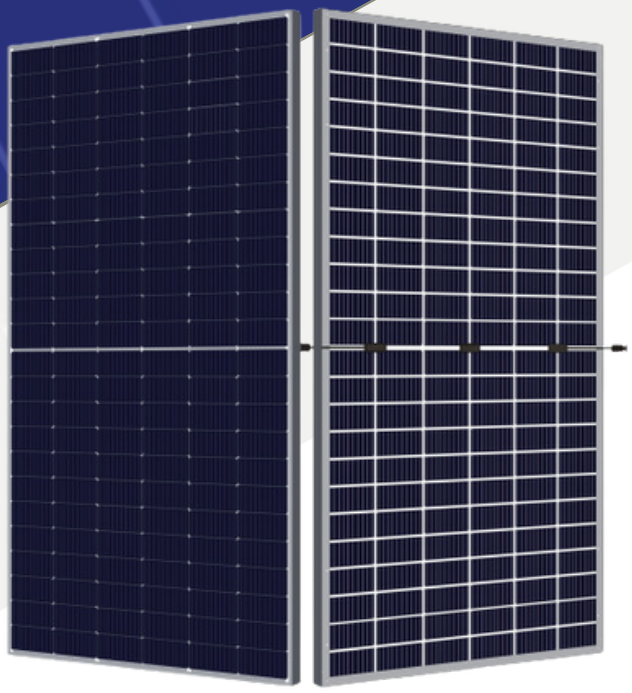
PERCMAX

BISOL

HIGH PERFOMANCE BIFACIAL MONOCRYSTALLINE P.E.R.C MODULE

DOUBLE GLASS



TM - 390/410M-108BI

108 CELL
Mono PERC Module

390 - 410Wp
Power Output Range

1500VDC
Maximum System Voltage

21.00%
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 - 18 Busbar)
- European Warranty & After - Sales Service

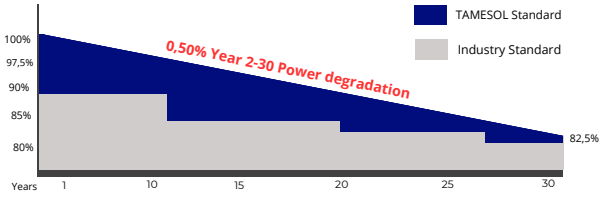
TAMESOL BUILDING A GREEN FUTURE S.L

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**

LINEAR PERFORMANCE WARRANTY

25 year Product Warranty / 30-Year Linear Power Warranty



TAMESOL
be bright, go solar

Since 2007, building a green future

PERCMAX
BISOL

TM-390/410M-108BI

21,00%	0 - 3%	2,0%	0,50%	PERC CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	Lower operating temperature

ELECTRICAL CHARACTERISTICS

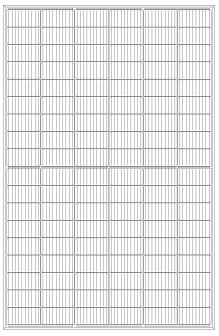
STC: AM1.5 1.000W/m2 NOTC: AM1.5 800W/m2 20º 1 m/s Test uncertainty for Pmax +-3%

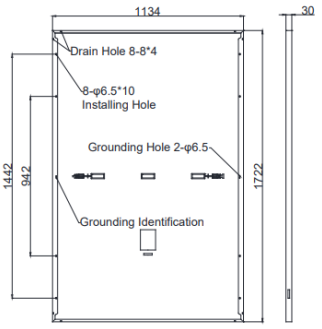
Module type	TM - 390 M-108BI		TM - 395 M-108BI		TM - 400 M-108BI		TM - 405M-108BI		TM - 410M-148BI	
Testing condition	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Maximum Power (Pmax/w)	390	290	395	294	400	298	405	301	410	305
Open Circuit Voltage (Voc/V)	36,7	34,7	36,9	34,9	37,1	35,1	37,3	35,3	37,5	35,5
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	30,70	29,04	30,87	29,2	31,03	29,37	31,20	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	10,32
Module Efficiency (%)	19,97%	14,85%	20,23%	15,06%	20,48%	15,26%	20,74%	15,42%	21,00%	15,43%

MECHANICAL PARAMETERS

Cell Orientation	single crystal PERC182x91mm (108 pieces)
Junction Box	IP68, three diodes
Output Cable	4.0mm² 300mm(+) / 300mm(-) or customized
Glass	1.6mm tempered coated glass, low iron
Frame	Anodized aluminum alloy frame
Weight	23 kg
Dimensión	1722*1134*30mm
Packaging	36 pcs*pallet / 366pcs*20GP / 936pcs*40HC

PHYSICAL CHARACTERISTICS





OPERATING PARAMETERS

Operational Temperature	-40ºC - +85ºC
Power Output Tolerance	(0, +3%)
Voc and Isc Tolerance	±3%
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30 A
Nominal Operating Cell Temperature	45±2℃
Protection Glass	Class Ⅱ
Fire Rating	Class C
Bifacial- Factor	70%±10%

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%/℃
Temperature Coefficient of Voc	-0.27%/℃
Temperature Coefficient of Pmax	-0.35%/℃

PACKING MANNER

Container	40ft(HQ)
Number of modules per container	936
Number of modules per pallet	36
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.