

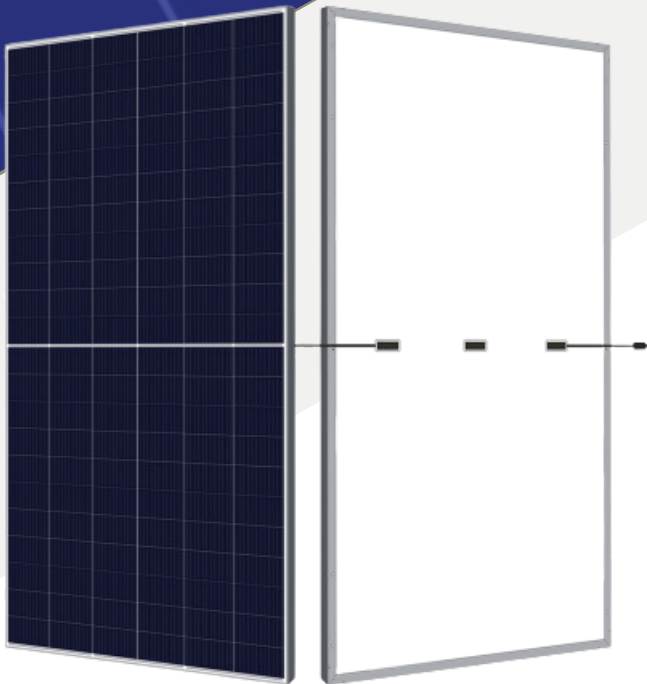
TOP - 570/590M-144HC

144 CELL
Mono N - Type Module









570 - 590Wp
Power Output Range

1500VDC
Maximum System Voltage

22.83%
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

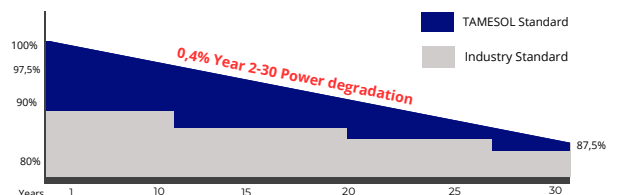
TAMESOL is a global provider of high-efficiency PV panels with a 10GW annual production capacity and a 100% automated production line, innovating state-of-the-art products for over 15 years. Our panels have been installed in more than 50 countries, with over 20 million panels already connected to the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

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TAMESOL
Energia para vivir

LINEAR PERFORMANCE WARRANTY

15 year Product Warranty / 30-Year Linear Power Warranty



Since 2007, building a green future

22,83%

MAX MODULE
EFFICIENCY

0 - +3%

POWER
TOLERANCE

1,0%

FIRST YEAR POWER
DEGRADATION

0,40%

YEAR 2-30
POWER DEGRADATION

N-TYPE CELL

Lower operating temperature

ELECTRICAL CHARACTERISTICS

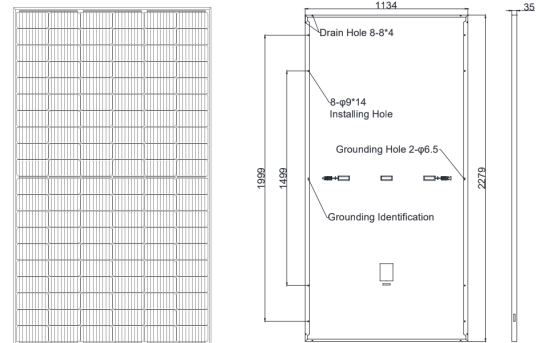
STC: AM1.5 1.000W/m2 NOTC: AM1.5 800W/m2 20° 1 m/s Test uncertainty for Pmax +3%

Module type	TOP - 570M-144HC		TOP - 575M-144HC		TOP - 580M-144HC		TOP - 585M-144HC		TOP - 590M-144HC	
	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Testing condition										
Maximum Power (Pmax/w)	570	429	575	433	580	437	585	441	590	445
Open Circuit Voltage (Voc/V)	50,74	48,20	50,88	48,33	51,02	48,46	51,16	48,59	51,30	48,72
Short Circuit Current (Isc/A)	14,31	11,55	14,39	11,62	14,47	11,68	14,55	11,77	14,63	11,83
Voltage at Maximum Power (Vmp/V)	42,07	39,51	42,22	39,64	42,37	39,77	42,52	39,90	42,52	40,03
Current at maximum Power (Imp/A)	13,55	10,85	13,62	10,91	13,69	10,97	13,76	11,06	13,83	11,12
Module Efficiency (%)	22,07%		22,26%		22,45%		22,64%		22,83%	

MECHANICAL PARAMETERS

Cell Orientation	single crystal N-Topcon 182x91mm (144 pieces)
Junction Box	IP68, three diodes
Output Cable	300mm(+) customized
Glass	3.2mm tempered coated glass, low iron
Frame	Anodized aluminum alloy frame
Weight	25 , 27,5 kg
Dimensión	2278*1134*30/35mm
Packaging	31/37 pcs*pallet / 620/740 pcs*40HC

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	+0.046%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.30%/°C

PACKING MANNER

Container	40ft(HQ)
Number of modules per container	620/740
Number of modules per pallet	31/37
Number of pallets per container	20

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.