

TOPSUN

WHITE BACKSHEET
MONOCRYSTALLINE
N-TYPE TECHNOLOGY



TAMESOL building a green future SL, is a European manufacturer of high-efficiency PV panels with a 10GW annual production capacity and 100% automated production line located in China, innovating state-of-the-art products for over 18 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
Since 2007 building a green future

TOP - 565/585M-144HC

144 CELL

MonoN - TypeModule

565 - 585Wp

Power Output Range

Single Glass

White Backsheet

22.65%

Maximum Efficiency

KEY SALIENT FEATURES



Industry leading lowest thermal coefficient 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



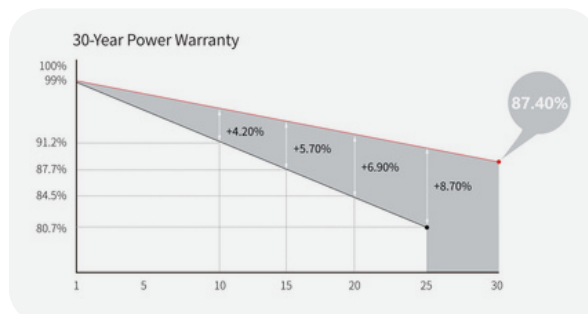
Fully Reduced power loss by minimizing the effect of shadow shading (16-18 Busbar)



European quality standards & after sales service

LINEAR PERFORMANCE WARRANTY

15-year Product & 30-year Linear Power



TOP-565/585M-144HC

22,65%
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

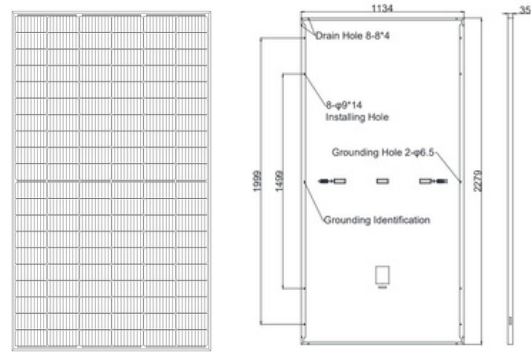
STC: AM1.51.000W/m² NOTC: AM1.5800W/m²20°1m/s Test uncertainty for Pmax 0-+3%

Module type	TOP - 565M-144HC		TOP - 570M-144HC		TOP - 575M-144HC		TOP - 580M-144HC		TOP - 585M-144HC	
Testing condition	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Maximum Power (Pmax/w)	565	425	570	429	575	433	580	437	585	441
Open Circuit Voltage (Voc/V)	50,60	48,07	50,74	48,20	50,88	48,33	51,02	48,46	51,16	48,59
Short Circuit Current (Isc/A)	14,23	11,46	14,31	11,55	14,39	11,62	14,47	11,68	14,55	11,77
Voltage at Maximum Power (Vmp/V)	41,92	39,38	42,07	39,51	42,22	39,64	42,37	39,77	42,52	39,90
Current at maximum Power (Imp/A)	13,48	10,79	13,55	10,85	13,62	10,91	13,69	10,97	13,76	11,06
Module Efficiency (%)	21,86%		22,06%		22,26%		22,45%		22,65%	

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	25A
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

Authorized 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.