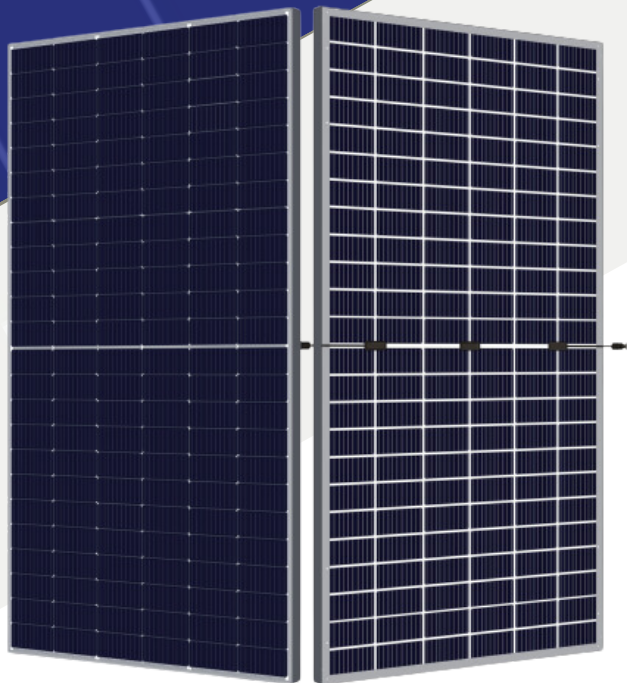


TOPSUN

BISOL

HIGH PERFORMANCE
MONOCRYSTALLINE
N- TYPE TECHNOLOGY
DOUBLE GLASS



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
— be bright, go solar —

144

TOP - 565/585M-144BI

144 CELL
Mono N - Type Module

565 - 585Wp
Power Output Range

1500VDC
Maximum System Voltage

22.65%
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



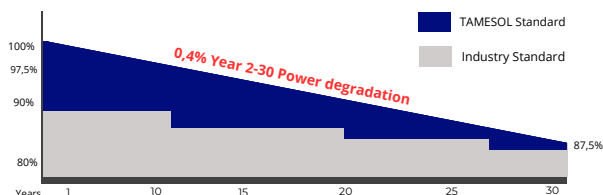
Fully Reduced power loss by minimizing the effect of shadow shading (9 - 18 Busbar)



European Warranty & After - Sales Service

LINEAR PERFORMANCE WARRANTY

25 year Product Warranty / 30-Year Linear Power Warranty



Since 2007, building a green future

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

Module type	TOP - 565M-144BI		TOP - 570M-144BI		TOP - 575M-144BI		TOP - 580M-144BI		TOP - 585M-144BI	
Testing condition	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Maximum Power (Pmax/w)	565	425	570	429	575	432	580	436	585	440
Open Circuit Voltage (Voc/V)	50,6	48,07	50,74	48,2	50,88	48,34	51,02	48,47	51,16	48,6
Short Circuit Current (Isc/A)	14,23	11,26	14,31	11,34	14,39	11,38	14,47	11,45	14,55	11,53
Voltage at Maximum Power (Vmp/V)	41,92	39,82	42,07	39,96	42,22	40,11	42,37	40,25	42,52	40,39
Current at maximum Power (Imp/A)	13,48	10,67	13,55	10,74	13,62	10,77	13,69	10,83	13,76	10,90
Module Efficiency (%)	21,87%	16,44%	22,07%	16,60%	22,26%	16,72%	22,45%	16,87%	22,65%	17,03%

MECHANICAL PARAMETERS

Cell Orientation single crystal N-Topcon 182x91mm (144 pieces)

Junction Box IP68, three diodes

Output Cable 4.0mm² 300mm(+) / 300mm(-) or customized

Glass 2.0mm / 2.0mm

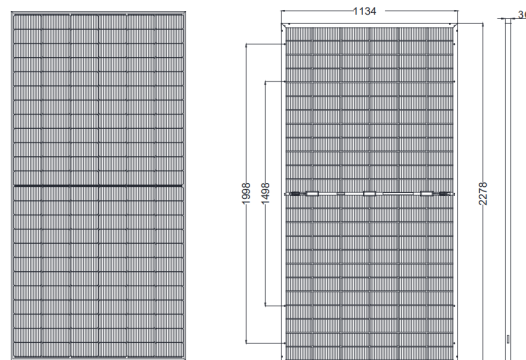
Frame Anodized aluminum alloy frame

Weight 32 kg

Dimensión 2278*1134*30mm

Packaging 36 pcs*pallet / 720 pcs*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 30 A

Nominal Operating Cell Temperature 45±2°C

Protection Glass Class II

Fire Rating Class C

Bifacial - Factor 80% ± 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 +0.046%/°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 720

Number of modules per pallet 36

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.