

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.

Tel : +34 936 94 03 56
E-mail: info@tamesol.com
Website: www.tamesol.com



TAMESOL
Since 2007 building a green future

TOP - 600/620M-132HC

132 CELL

MonoN - TypeModule

600 - 620Wp

Power Output Range

Single Glass

White Backsheet

22.95%

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



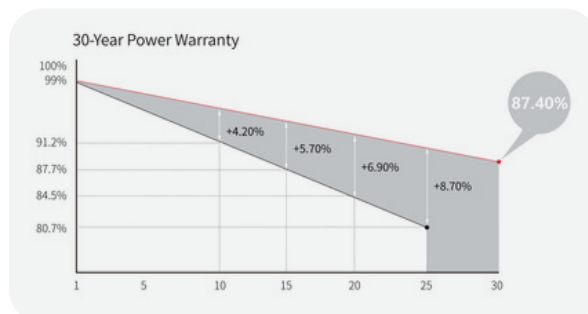
Fully Reduced power loss by minimizing the effect of shadow shading (16-18 Busbar)



European quality standards & after sales service

LINEAR PERFORMANCE WARRANTY

15-year Product & 30-year Linear Power



TOP-600/620M-132HC

22,95%

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-600M-132HC		TOP - 605M-132HC		TOP-610M-132HC		TOP-615M-132HC		TOP-620M-132HC	
Testing condition	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Maximum Power (Pmax/w)	600	451	605	455	610	459	615	462	620	466
Open Circuit Voltage (Voc/V)	48.28	45.86	48.48	46.06	48.68	46.25	48.88	46.44	49.08	46.63
Short Circuit Current (Isc/A)	15.84	12.53	15.90	12.58	15.96	12.64	16.02	12.67	16.08	12.72
Voltage at Maximum Power (Vmp/V)	40.16	38.15	40.31	38.29	40.46	38.44	40.60	38.57	40.74	38.70
Current at maximum Power (Imp/A)	14.94	11.82	15.01	11.88	15.08	11.94	15.15	11.98	15.22	12.04
Module Efficiency (%)	22,21%		22,40%		22,58%		22,27%		22,95%	

MECHANICAL PARAMETERS

Cell Orientation single crystal N-Topcon 182x105mm (132 pieces)

Junction Box IP68, three diodes

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

Glass 3.2mm tempered coated glass, low iron

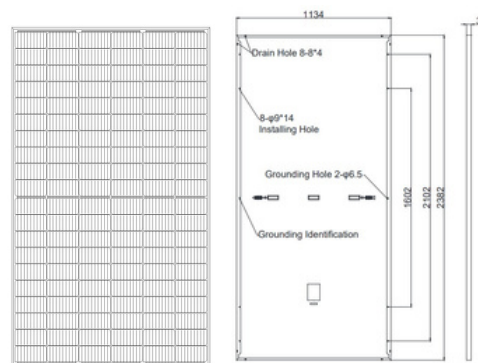
Frame Anodized aluminum alloy frame

Weight 31kg

Dimensión 2382*1134*35mm

Packaging 31 pcs*pallet / 620 pcs*40HQ

PHYSICAL CHARACTERISTICS



OPERATING PARAMETERS

Operational Temperature -40°C - +85°C

Power Output Tolerance (0, +3%)

Maximum System Voltage 1500V DC

Maximum Series Fuse Rating 30A

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

Number of modules per pallet 31

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.