

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 - 620/640M-156HC

156 CELL

MonoN - TypeModule

620 - 640Wp

Power Output Range

Single Glass

White Backsheet

22.90%

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



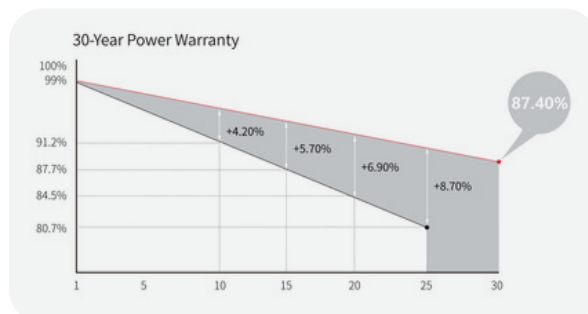
Fully Reduced power loss by minimizing the effect of shadow shading (16-18 Busbar)



European quality standards & after sales service

LINEAR PERFORMANCE WARRANTY

15-year Product & 30-year Linear Power



TOP-620/640M-156HC

22,90%
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 - 620M-156HC		TOP - 625M-156HC		TOP-630M-156HC		TOP-635M-156HC		TOP-640M-156HC	
Testingcondition	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Maximum Power (Pmax/w)	620	469	625	473	630	477	635	481	640	484
Open Circuit Voltage (Voc/V)	56.85	54.07	57.05	54.26	57.25	54.54	57.45	54.64	57.83	54.83
Short Circuit Current (Isc/A)	13.50	10.63	13.55	10.67	13.60	10.71	13.65	10.74	13.83	10.78
Voltage at Maximum Power (Vmp/V)	48.42	46.61	48.62	46.61	48.82	46.99	49.02	47.18	49.38	47.38
Current at maximum Power (Imp/A)	12.81	10.07	12.86	10.07	12.86	10.15	12.96	10.18	13.10	10.22
Module Efficiency (%)	22.18%		22,36%		22,54%		22,72%		22,90%	

MECHANICAL PARAMETERS

Cell Orientation single crystal N-Topcon 182x105mm (156 pieces)

Junction Box IP68, three diodes

Output Cable 300mm(+) customized

Glass 3.2mm tempered coated glass, low iron

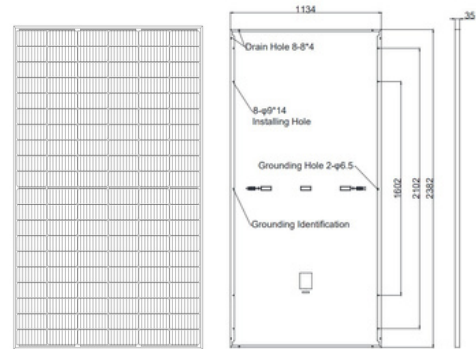
Frame Anodized aluminum alloy frame

Weight 31kg

Dimensión 2382*1134*35mm

Packaging 31 pcs*pallet / 496 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 496

Number of modules per pallet 31

Number of pallets per container 16

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.