

TOPSUN

HIGH PERFORMANCE
MONOCRYSTALLINE
N-TYPE TECHNOLOGY



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

156

TOP - 620/640M-156HC

156 CELL
Mono N - Type Module

620 - 640Wp
Power Output Range

Single Glass
White Backsheet

22.90%
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



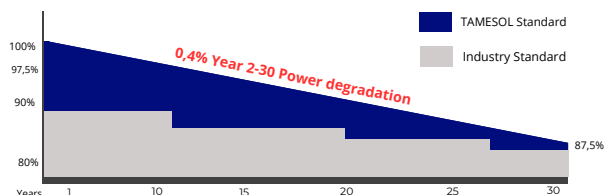
Fully Reduced power loss by minimizing the effect of shadow shading (9 - 18 Busbar)



EU Brand & european after sales service

LINEAR PERFORMANCE WARRANTY

15 year Product Warranty / 30-Year Linear Power Warranty



*Since 2007,
building a green future*

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

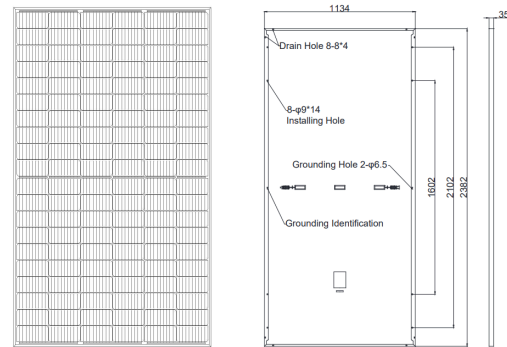
STC: AM1.5 1.000W/m² NOTC: AM1.5 800W/m² 20° 1 m/s Test uncertainty for Pmax 0 - +3%

Module type	TOP - 620M-156HC		TOP - 625M-156HC		TOP - 630M-156HC		TOP - 635M-156HC		TOP - 640M-156HC	
	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Testing condition										
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	31 kg
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	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	496
Number of modules per pallet	31
Number of pallets per container	16

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.