

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

132

TOP - 600/620M-132HC

132 CELL
Mono N - Type Module

600 - 620Wp
Power Output Range

Single Glass
White Backsheet

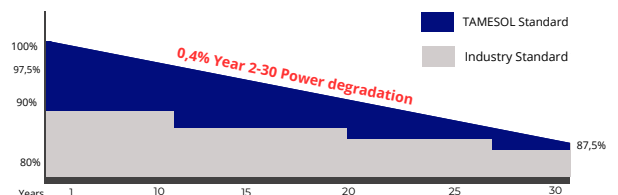
22.95%
Maximum Efficiency

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*

22,95%

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

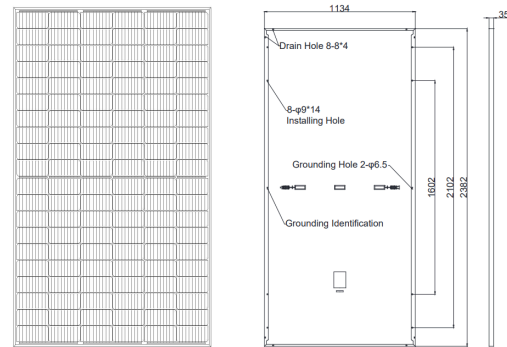
STC: AM1.5 1.000W/m² NOTC: AM1.5 800W/m² 20° 1 m/s Test uncertainty for Pmax 0 - +3%

Module type	TOP - 600M-132HC		TOP - 605M-132GC		TOP - 610M-132HC		TOP - 615M-132HC		TOP - 620M-132HC	
	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Testing condition										
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	4.0mm ² 300mm(+) / 300mm(-) or 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 / 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	30 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	620
Number of modules per pallet	31
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.