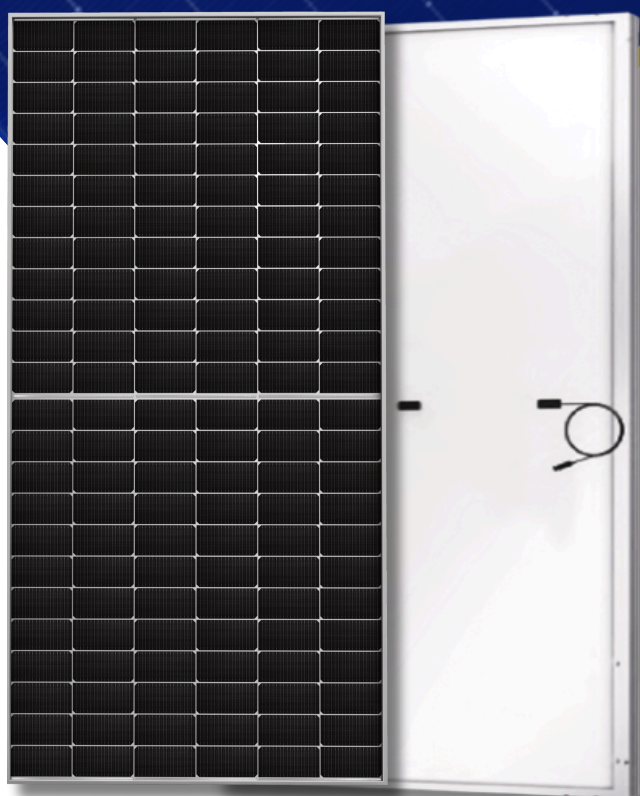


TOPSUN

MONOCRISTALLYNE MONOFACIAL PV MODULES

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.

TOP- 585 | 605M-144HC

585 – 605 WP

144 CELLS * 182MM

MAX. EFFICIENCY 23,4%

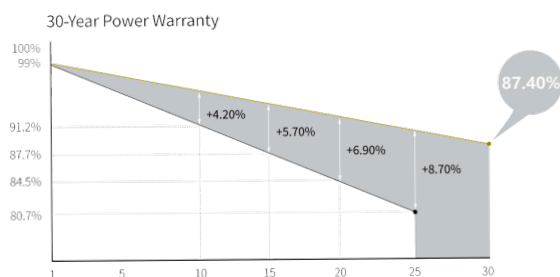
WHITE BACKSHEET

KEY FEATURES

- Industry lower thermal coefficient pwr
- 15+10 Years Product EU Warranty
- Excellent irradiance performance
- Excellent PID resistance
- Positive tolerance from 0 to +3%
- Fully automated production all stages
- Reduced power losses **16 BUSBAR**
- European Quality Standards, warranty and after sales service

PERFORMANCE WARRANTY

1% first year – 0,40% year 2 to 30



*15 (+10)-year Product & 30-year Linear Power

✉ info@tamesol.com

☎ +34 93 694 03 56

🌐 www.tamesol.com

📍 Diagonal Av. 534th – 08006 Barcelona (Spain)

TAMESOL
Since 2017 building a green future

23,40%

MAX. MODULE
EFFICIENCY

+3%

POWER
TOLERANCE

1%

1ST YEAR POWER
DEGRADATION

0,40%

YEAR 2 TO
YEAR 30

N-TYPE CELL

LOWER OPERATING
TEMPERATURE

PACKING MANNER

Packaging(pcs/40HQ container)	17.5 meter semi hanging	Dimensions	Weight
31/620pcs 37/740pcs	31/930pcs 37/1036pcs	2278x1134x35(30)mm	28kg±3%

MECHANICAL SPECIFICATION

Cell	N-type mono-crystalline
No.of cells	144(6x24)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible
STC:AM1.5 1000W/m ² 25°C	NOCT:AM1.5 800W/m ² 20°C 1m/s

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	25A
Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Safety Class	Class II
Test Uncertainty for Pmax ±3%	

ELECTRICAL CHARACTERISTICS

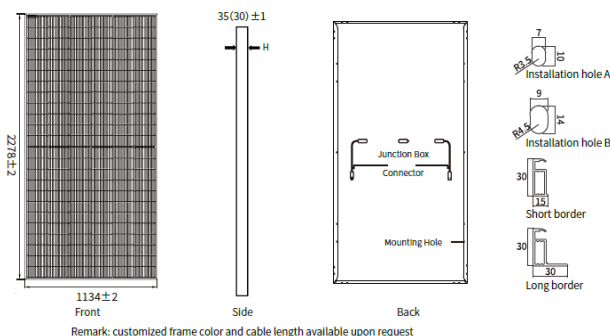
NOTC: AM1.5 800W/m² 20° 1 m/s Test uncertainty for Pmax 0 - +3%

Module Type	TOP-585M-144HC		TOP-590M-144HC		TOP-595M-144HC		TOP-600M-144HC		TOP-605M-144HC	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	585	440	590	444	595	448	600	451	605	455
Open Circuit Voltage(Voc/V)	51.16	48.55	51.30	48.69	51.44	48.82	51.58	48.95	51.72	49.08
Short Circuit Current(Isc/A)	14.55	11.74	14.63	11.81	14.71	11.87	14.79	11.94	14.87	12.00
Voltage at Maximum Power(Vmp/V)	42.52	39.87	42.67	39.99	42.82	40.11	42.97	40.23	43.12	40.35
Current at Maximum Power(Impp/A)	13.76	11.04	13.83	11.10	13.90	11.16	13.97	11.22	14.04	11.28
Module Efficiency(%)	22.60		22.80		23.00		23.20		23.40	

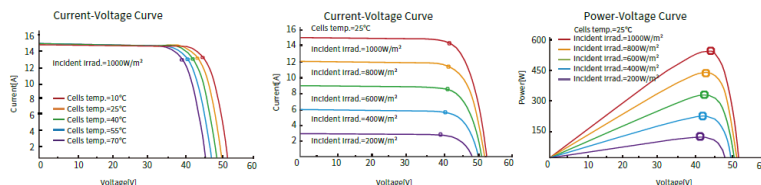
TEMPERATURE RATINGS (STC)

Norminal Operating Cell Temperature(NOCT)	45±2°C
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Pmax	-0.300%/°C

SIZES OF MODULE



I-V CURVE (TOP-585 | 605M-144HC)



OFFICIAL 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.