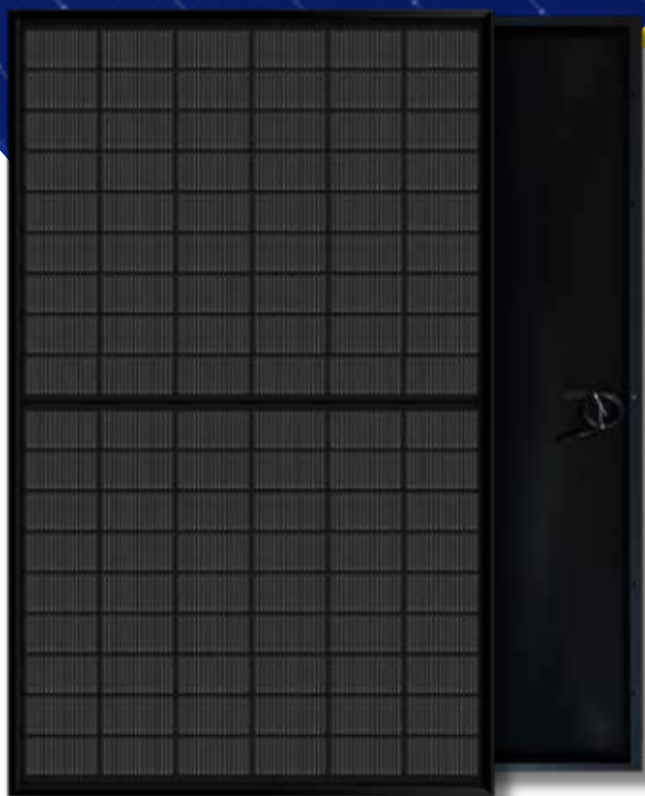


TOPSUN

MONOCRISTALLYNE ALL BLACK 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- 505 | 525M-108HC

505 - 525 WP

108 CELLS * 210MM

MAX. EFFICIENCY 23,6%

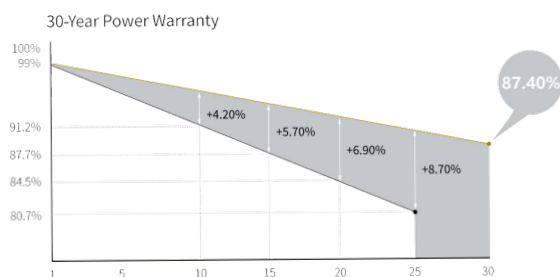
BLACK BACKSHEET

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

MAX. MODULE
EFFICIENCYPOWER
TOLERANCE

1ST YEAR POWER DEGRADATION

YEAR 2 TO
YEAR 30

LOWER OPERATING TEMPERATURE

PACKING MANNER

Packaging(pcs/40HQ container)	17.5 meter semi hanging	Dimensions	Weight
31/744pcs 37/888pcs	31/1054pcs 37/1258pcs	1960x1134x35(30)mm	23kg±3%

MECHANICAL SPECIFICATION

Cell	N-type mono-crystalline	Maximum System Voltage	1500VDC
No.of cells	108(6x18)	Operating Temperature	-40°C~+85°C
Cable Length	300mm(+)/300mm(-)	Maximum Series Fuse	25A
Cable Cross Section Size	4mm ² (IEC)	Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
Junction Box	IP68,3 diodes	Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Connector	MC4 Compatible	Safety Class	Class II
STC:AM1.5 1000W/m ² 25°C	NOCT:AM1.5 800W/m ² 20°C 1m/s	Test Uncertainty for Pmax ±3%	

OPERATING PARÁMETERS

ELECTRICAL CHARACTERISTICS

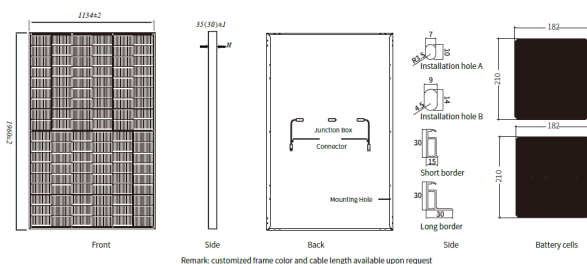
NOTC: AM1.5 800W/m² 20° 1 m/s Test uncertainty for P_{max} 0 - +3%

Module Type	TOP-505M-108HC		TOP-510M-108HC		TOP-515M-108HC		TOP-520M-108HC		TOP-525M-108HC	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	505	383	510	387	515	390	520	394	525	398
Open Circuit Voltage(Voc/V)	40.24	38.23	40.42	38.40	40.60	38.57	40.78	38.74	40.96	38.91
Short Circuit Current(Isc/A)	15.92	12.85	15.95	12.87	15.98	12.90	16.01	12.92	16.04	12.95
Voltage at Maximum Power(Vmp/V)	33.27	31.93	33.47	32.19	33.67	32.44	33.87	32.69	34.07	32.95
Current at Maximum Power(Imp/A)	15.18	11.99	15.24	12.01	15.30	12.03	15.36	12.06	15.42	12.08
Module Efficiency(%)	22.70		22.90		23.20		23.40		23.60	

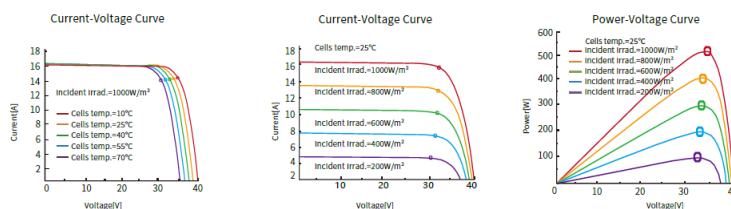
TEMPERATURE RATINGS (STC)

Normal 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-505 | 525M-108HC)



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.