

TOPSUN

MONOCRISTALLYNE BIFACIAL PV MODULES

N-TYPE TECHNOLOGY

TOP- 610 | 635M-132BI

610 - 635 WP

132 CELLS * 210MM

MAX. EFFICIENCY 23,5%

DOUBLE GLASS

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

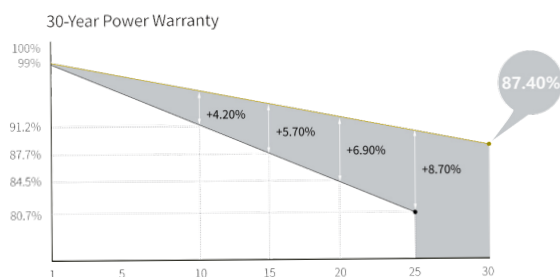


TAMESOL building a green future SL, is a European manufacturer of high-efficiency PV panels with a 10GW annual production capacity and 100% automated production line located in China, **innovating state-of-the-art products for over 18 years.**

Our panels have been installed in more than 50 countries, with over 20 million panels already connected to the grid.

PERFORMANCE WARRANTY

1% first year - 0,40% year 2 to 30



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

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TAMESOL
Since 2017 building a green future

23,50%

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)		13.5 meter semi hanging		Dimensions	Weight
31/620pcs	37/740pcs	31/682pcs	37/814pcs	2382x1134x35(30)mm	33.6kg ± 3%

MECHANICAL SPECIFICATION

Cell	N-type mono-crystalline	Maximum System Voltage	1500VDC
No.of cells	132(6x22)	Operating Temperature	-40°C~+85°C
Cable Length	300mm(+)/300mm(-)	Maximum Series Fuse	30A
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 PARAMETERS

ELECTRICAL CHARACTERISTICS

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

Module Type	TOP-610M-132BI TOP-615M-132BI TOP-620M-132BI TOP-625M-132BI TOP-630M-132BI TOP-635M-132BI											
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	610	462	615	466	620	470	625	474	630	478	635	481
Open Circuit Voltage(Voc/V)	48.02	45.62	48.20	45.79	48.38	45.96	48.56	46.13	48.74	46.30	48.92	46.47
Short Circuit Current(Isc/A)	16.00	12.92	16.06	12.96	16.12	13.01	16.18	13.06	16.24	13.11	16.30	13.16
Voltage at Maximum Power(Vmp/V)	40.16	38.38	40.34	38.55	40.52	38.72	40.70	38.88	40.88	39.05	41.06	39.21
Current at Maximum Power(Imp/A)	15.20	12.05	15.26	12.09	15.32	12.14	15.38	12.18	15.44	12.23	15.50	12.27
Module Efficiency(%)	22.60		22.70		22.90		23.10		23.30		23.50	

TEMPERATURE RATINGS (STC)

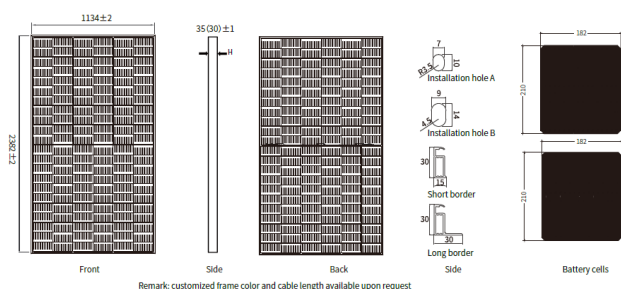
Normal Operating Cell Temperature(NOCT)	45±2°C
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Pmax	-0.300%/°C

POWER OUTPUT FRONT & REAR SIDE

(REFERENCEDSPECIFICALLY TO 610WP FRONT)

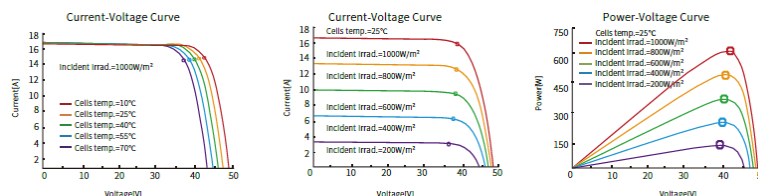
Power Gain (%)	5%	10%	15%	20%	25%
Maximum Power(Pmax/W)	640	671	701	732	762
Pmax Gain(%)	23.70%	24.80%	25.90%	27.10%	28.20%

SIZES OF MODULE



Remark: customized frame color and cable length available upon request

I-V CURVE (TOP-610 | 635M-132BI)



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.