

PERC**MAX**

# BIFACIAL

HIGH PERFORMANCE  
BIFACIAL MONOCRYSTALLINE  
P.E.R.C MODULE

132

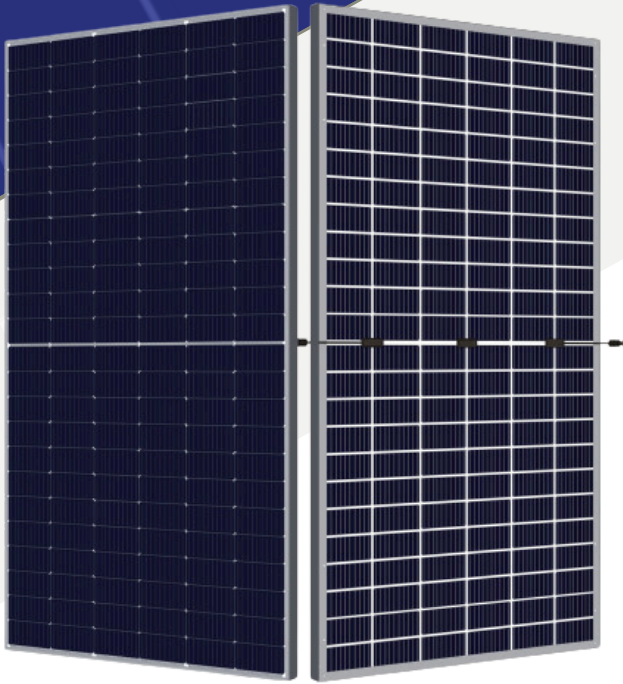
## TM - 485/505M-132BI

**132 CELL**  
Mono PERC Module

**485 - 505Wp**  
Power Output Range

**1500VDC**  
Maximum System Voltage

**21.26%**  
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)



European Warranty & After - Sales Service



### 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.

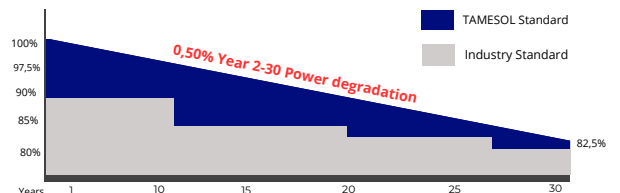
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**TAMESOL**  
Energia para vivir

### LINEAR PERFORMANCE WARRANTY

15 year Product Warranty / 30-Year Linear Power Warranty



*Since 2007, building a green future*

**21,26%**  
MAX MODULE  
EFFICIENCY

**0 - +3%**  
POWER  
TOLERANCE

**2,0%**  
FIRST YEAR POWER  
DEGRADATION

**0,50%**  
YEAR 2-30  
POWER DEGRADATION

**PERC CELL**  
Lower operating temperature

**ELECTRICAL CHARACTERISTICS**

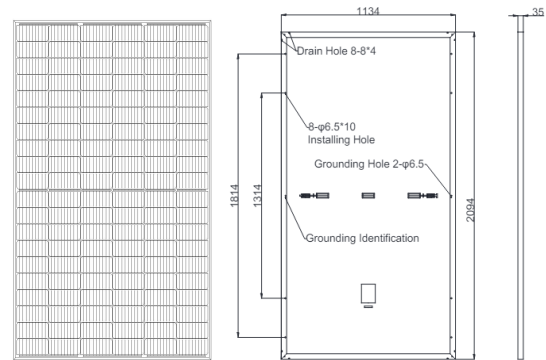
STC: AM1.5 1.000W/m2 NOTC: AM1.5 800W/m2 20° 1 m/s Test uncertainty for Pmax 0 - +3%

Module type	TM - 485M-132BI		TM - 490M-132BI		TM - 595M-132BI		TM - 500M-132BI		TM - 505M-132BI	
	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Testing condition										
Maximum Power (Pmax/w)	485	367	490	370	495	374	500	378	505	382
Open Circuit Voltage (Voc/V)	45.10	42.30	45,25	42.43	45.40	42.58	45,55	42.72	45.70	42.86
Short Circuit Current (Isc/A)	13,67	11.09	13,74	11.13	13.82	11.20	13,90	11.27	13,97	11.34
Voltage at Maximum Power (Vmp/V)	37.97	35.67	38,08	35.76	38.23	35.84	38.38	35.93	38.53	36.02
Current at maximum Power (Imp/A)	12,78	10.27	12,86	10.35	12.94	10,43	13.01	10.51	13,09	10.59
Module Efficiency (%)	20,42%		20,63%		20,84%		21,05%		21,26%	

**MECHANICAL PARAMETERS**

Cell Orientation	single crystal PERC 182 x91mm (132 pieces)
Junction Box	IP68, three diodes
Output Cable	4.0mm² 300mm / 1100mm
Glass	3.2mm tempered coated glass, low iron
Frame	Anodized aluminum alloy frame
Weight	29,7 kg
Dimensión	2094*1134*30/35mm
Packaging	36/37 pcs*pallet/ 792/814 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	25 A
Nominal Operating Cell Temperature	45±2°C
Protection Glass	Class II
Fire Rating	Class C
Bifacial- Factor	70%±10%

**MECHANICAL LOADING**

Front Side Maximum Static Loading	5400 PA
Rear Side Maximum Static Loading	2400 PA

**TEMPERATURA RATINGS (STC)**

Temperature Coefficient of Isc	+0.05%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Pmax	-0.35%/°C

**PACKING MANNER**

Container	40ft(HQ)
Number of modules per container	792/814
Number of modules per pallet	36/37
Number of pallets per container	22

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](mailto: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.