

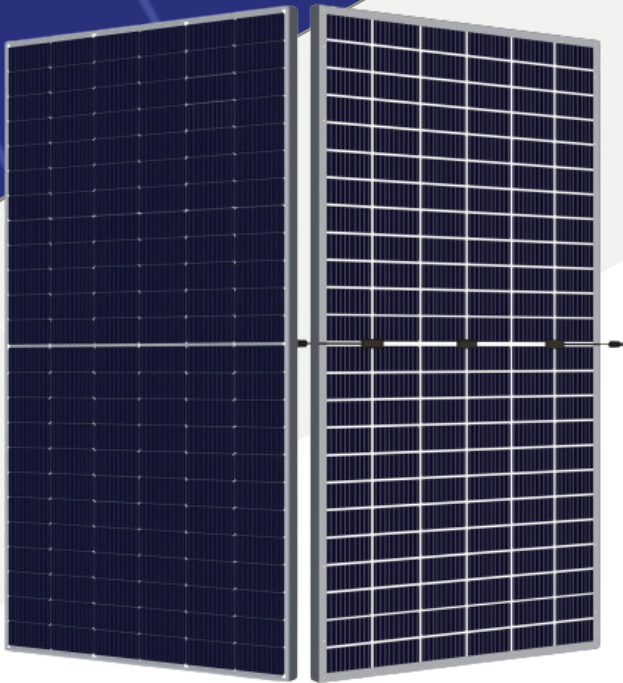
PERC**MAX**

BISOL

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

144

TM - 530/550M-144BI



144 CELL
Mono PERC Module

530 - 550Wp
Power Output Range

1500VDC
Maximum System Voltage

21.28%
Maximum Efficiency

KEY SALIENT FEATURES



Industry leading lowest thermal co-efficient of power



Industry leading 25 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

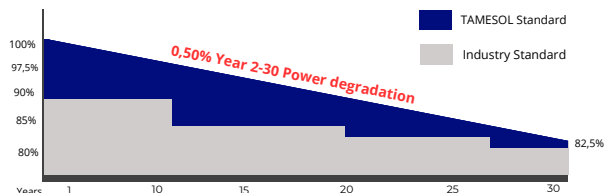
TAMESOL is a global provider of high-efficiency PV panels with a 10GW annual production capacity and a 100% automated production line, innovating state-of-the-art products for over 15 years. Our panels have been installed in more than 50 countries, with over 20 million panels already connected to the grid.

Tel : +34 872 222 388

E - mail: info@tamesol.com Website: www.tamesol.com

LINEAR PERFORMANCE WARRANTY

25 year Product Warranty / 30-Year Linear Power Warranty



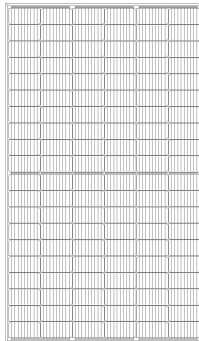
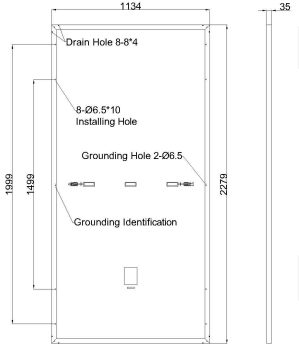
TAMESOL
— be bright, go solar —

Since 2007, building a green future

21,28% 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
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ELECTRICAL CHARACTERISTICS		STC: AM1.5 1.000W/m2 NOTC: AM1.5 800W/m2 20° 1 m/s Test uncertainty for Pmax +3%									
Module type	TM - 530M-144BI		TM - 535M-144BI		TM - 540M-144BI		TM - 545M-144BI		TM - 550M-144BI		
Testing condition	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	
Maximum Power (Pmax/w)	530	394	535	398	540	402	545	405	550	409	
Open Circuit Voltage (Voc/V)	49.0	46,3	49,2	46,5	49,4	46,7	49,6	46,9	49,8	47,1	
Short Circuit Current (Isc/A)	13,76	10,78	13,81	10,85	13,84	10,90	13,94	10,95	13,99	11,00	
Voltage at Maximum Power (Vmp/V)	41,48	39,19	41,65	39,36	41,82	39,53	41,99	39,70	42,15	39,86	
Current at maximum Power (Imp/A)	12,78	10,06	12,85	10,12	12,92	10,17	12,98	10,21	13,05	10,26	
Module Efficiency (%)	20,56%	15,25%	20,76%	15,40%	20,95%	15,56%	21,14%	15,67%	21,28%	15,83%	

MECHANICAL PARAMETERS	
Cell Orientation	single crystal PERC182x91mm (144 pieces)
Junction Box	IP68, three diodes
Output Cable	4.0mm² 300mm(+) / 300mm(-) or customized
Glass	2.0 mm tempered coated glass, low iron
Frame	Anodized aluminum alloy frame
Weight	31 kg
Dimensión	2279*1134*35mm
Packaging	31 pcs*pallet / 255pcs*20GP / 620pcs*40HC

PHYSICAL CHARACTERISTICS	
	

OPERATING PARAMETERS	
Operational Temperature	-40°C - +85°C
Power Output Tolerance	(0, +3%)
Voc and Isc Tolerance	±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
Bifacial- Factor	70%±10%

MECHANICAL LOADING	
Front Side Maximum Static Loading	5400 PA
Rear Side Maximum Static Loading	2400 PA
Hailstone Test	Diameter 25mm, impact speed 23m/s

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	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.