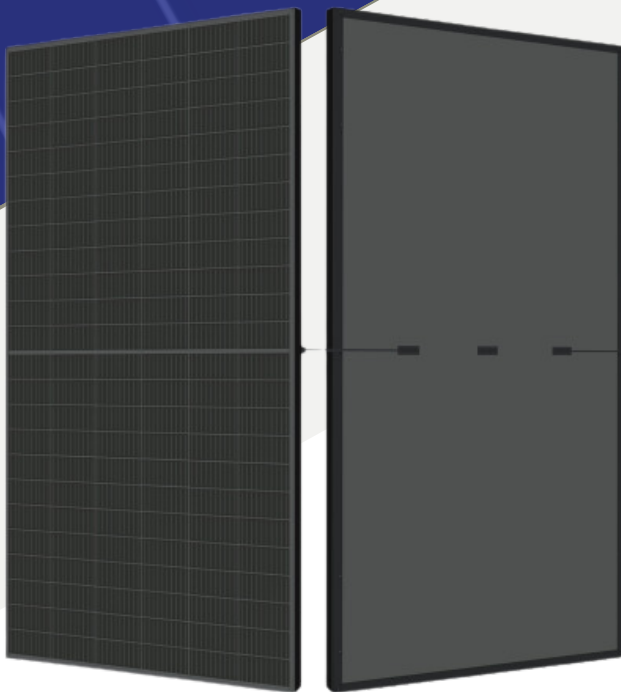


PERC**MAX**

# DARKSUN

HIGH PERFORMANCE  
MONOCRYSTALLINE  
P.E.R.C MODULE

144



## TM - 530/550M-144AB

**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

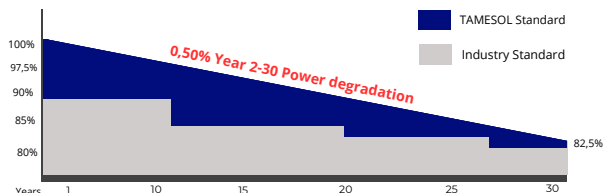
TAMESOL is a global provider of high-efficiency PV panels with a 10GW annual production capacity and a 100% automated production line, innovating state-of-the-art products for over 15 years. Our panels have been installed in more than 50 countries, with over 20 million panels already connected to the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

Tel : +34 872 222 388

E - mail: [info@tamesol.com](mailto:info@tamesol.com) Website: [www.tamesol.com](http://www.tamesol.com)

### LINEAR PERFORMANCE WARRANTY

25 year Product Warranty / 30-Year Linear Power Warranty



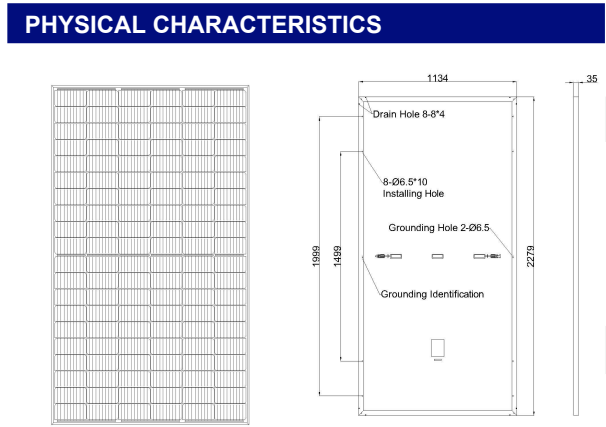
**TAMESOL**  
— be bright, go solar —

*Since 2007, building a green future*

<b>21,28%</b> MAX MODULE EFFICIENCY	<b>0 - 3%</b> POWER TOLERANCE	<b>2,0%</b> FIRST YEAR POWER DEGRADATION	<b>0,50%</b> YEAR 2-30 POWER DEGRADATION	<b>PERC CELL</b> 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-144AB		TM - 535M-144AB		TM - 540M-144AB		TM - 545M-144AB		TM - 550M-144AB		
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	3.2mm high transparency, tempered glass
Frame	Anodized aluminum alloy frame
Weight	25 kg
Dimensión	2279*1134*35mm
Packaging	31 pcs*pallet / 255pcs*20GP / 620pcs*40HC



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	25 A
Nominal Operating Cell Temperature	45±2°C
Protection Glass	Class II
Fire Rating	Class C

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](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.