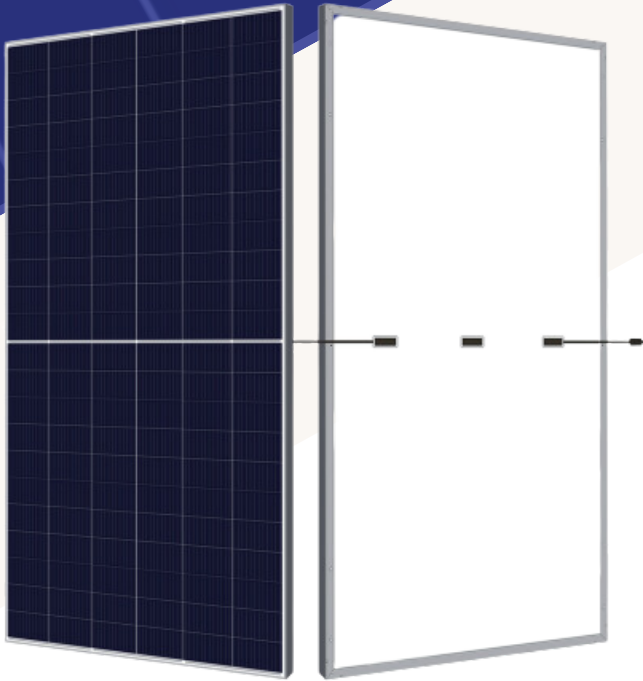


PERC**MAX**

HIGH PERFORMANCE
MONOCRYSTALLINE
P.E.R.C MODULE



144

TM - 530/550M-144HC









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.

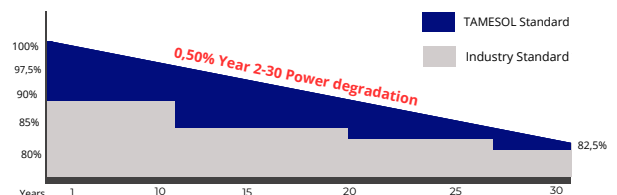
Tel : +34 872 222 388

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

TAMESOL
— be bright, go solar —

LINEAR PERFORMANCE WARRANTY

25 year Product Warranty / 30-Year Linear Power Warranty



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

ELECTRICAL CHARACTERISTICS

STC: AM1.5 1.000W/m²

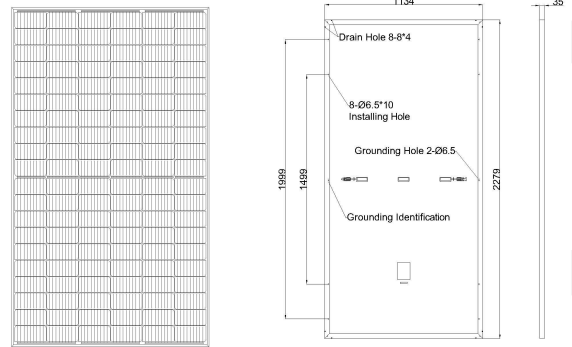
NOTC: AM1.5 800W/m² 20° 1 m/s Test uncertainty for Pmax +-3%

| Module type | TM - 530M-144HC | | TM - 535M-144HC | | TM - 540M-144HC | | TM - 545M-144HC | | TM - 550M-144HC | |
|----------------------------------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
| | STC | NOTC | STC | NOTC | STC | NOTC | STC | NOTC | STC | NOTC |
| 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 | 4.0mm ² 300mm(+) / 300mm(-) or customized |
| Glass | 3.2mm tempered coated glass, low iron |
| Frame | Anodized aluminum alloy frame |
| Weight | 25 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 | 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 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.