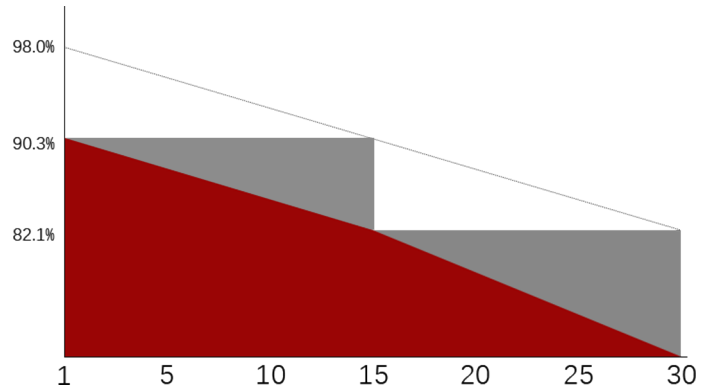


# TD-(430-450)MB-144HC

## TD - INK

Tide solar redefines the high efficiency module range by combining 166mm cells with PERC and half cell technology.

The combination of innovative technology has effectively improved module efficiency and power output.



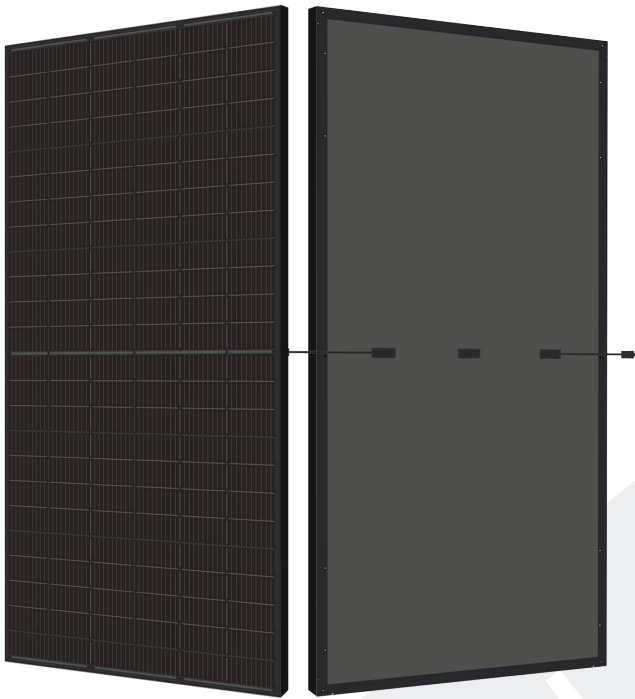
LINEAR PERFORMANCE WARRANTY

15 YEAR PRODUCT WARRANTY

30 YEAR LINEAR POWER WARRANTY

## MODULE SIZE

2094x1038x35mm



**144 CELL**  
MONOCRYSTALLINE MODULE

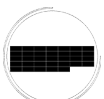
**430W-450W**  
POWER OUTPUT RANGE

**20.7%**  
MAXIMUM EFFICIENCY

**0 ~ +3%**  
POSITIVE POWER TOLERANCE



## MAIN CHARACTERISTICS



Competitive Low Light Performance



Reduced BOS & Increased ROI



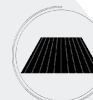
Reduced Power Loss by Minimising the Effect of Shadow Shading



High Density Encapsulation

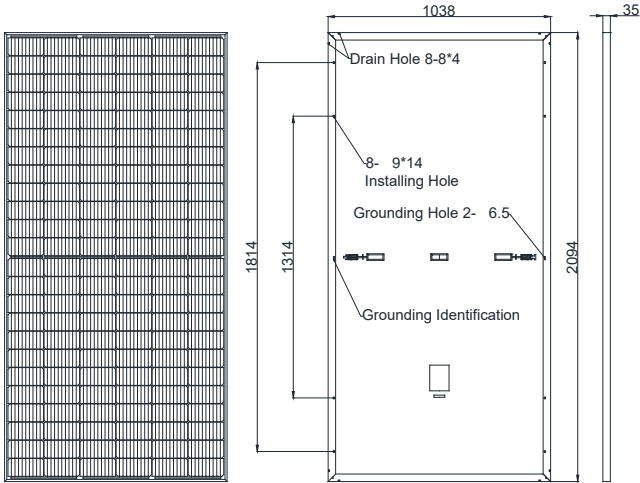


2400pa Wind Load  
5400pa Snow Load



Multi-Busbar Technology

## DIMENSIONS OF PV MODULE



## STRUCTURAL CHARACTERISTICS

Module Size	2094x1038x35mm
Weight	23.5kg
Cell	single crystal PERC166x83mm (144pieces)
Glass	3.2mm tempered coated glass, low iron
Frame	anodized aluminum alloy
Junction Box	IP68, 3 diodes
Output Lead	4.0mm <sup>2</sup> 1200mm(+) / 1200mm(-) or customized
Mechanical Load	front 5400pa / back 2400pa

## ELECTRICAL CHARACTERISTICS

Component Model	TD-430MB-144HC	TD-435MB-144HC	TD-440MB-144HC	TD-445MB-144HC	TD-450MB-144HC
Maximum Power (PMP)	STC 430	STC 435	STC 440	STC 445	STC 450
Open Circuit Voltage (VOC)	49.3	49.5	49.7	49.9	50.1
Short Circuit Current (ISC)	11.32	11.40	11.47	11.54	11.61
Maximum Power Voltage (VMP)	41.2	41.3	41.4	41.6	41.8
Maximum Power Current (IMP)	10.44	10.54	10.63	10.70	10.77
Component Efficiency ( $\eta$ )	19.78	20.01	20.24	20.47	20.7
Power Tolerance	(0, +3%)				
Maximum System Voltage	1500V DC				
Maximum Rated Fuse Current	20 A				

STC: Irradiance 1000 W/ m<sup>2</sup> module temperature 25 °C AM=1.5

## TEMPERATURE CHARACTERISTICS

Maximum Power Temperature Coefficient	-0.35 % / °C
Temperature Coefficient Of Open Circuit Voltage	-0.27 % / °C
Temperature Coefficient Of Short Circuit Current	+0.05 % / °C
Working Temperature	-40 ~ +85 °C
Nominal Operating Cell Temperature (NOCT)	45 ± 2 °C

## PACKING METHOD

Module Size	2094x1038x35mm
Container	40' HQ
Quantity Per Pallet	31+2*
Number Of Pallets Per Container	22
Quantity Per Container	726

## I-V Curve

