



TD-(430-450)MB-144HC

MODULE SIZE

2094*1038*35mm

POWER OUTPUT RANGE

430W - 450W

POSITIVE POWER TOLERANCE

0 - + 3%

MONOCRYSTALLINE MODULE

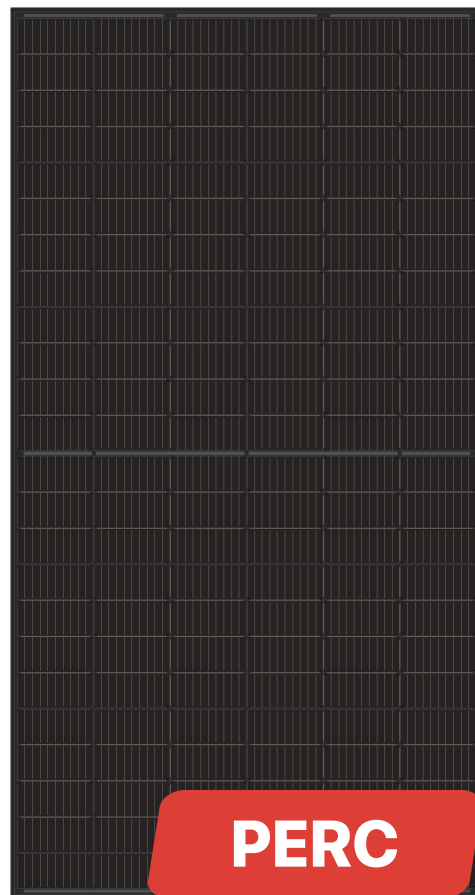
144 CELL

MAXIMUM EFFICIENCY

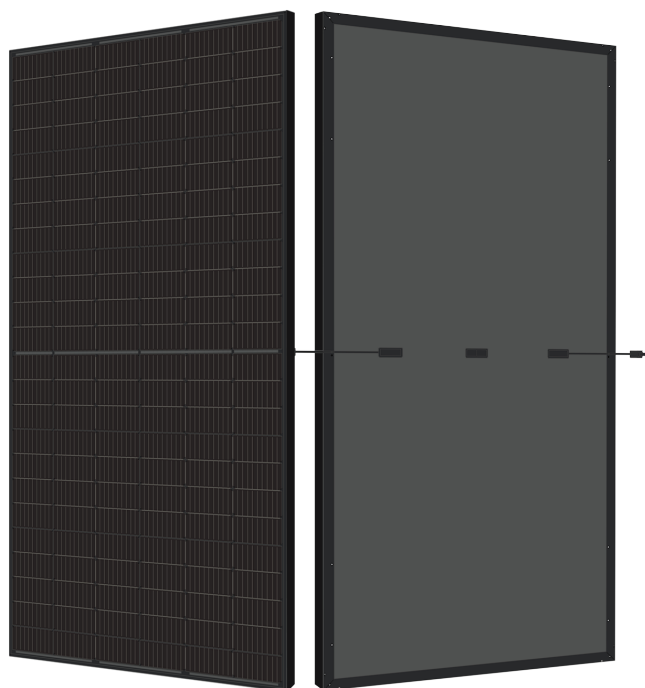
20.7%

LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty
30 Year Linear Power Warranty



PERC



Competitive Low Light
Performance



Reduced Power Loss by
Minimising the Effect of
Shadow Shading



High Density
Encapsulation



Multi-Busbar
Technology



2400pa Wind Load
5400pa Snow Load



Reduced BOS &
Increased ROI

TIDE SOLAR

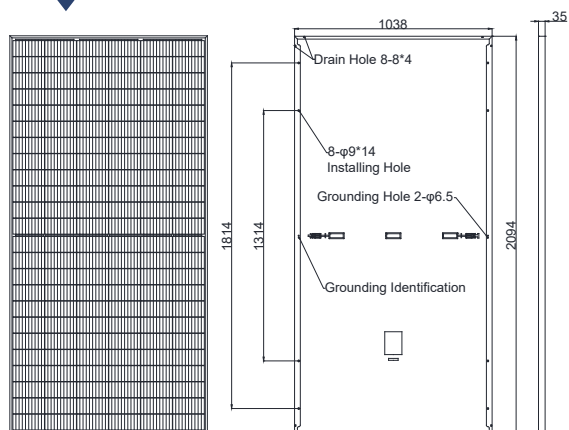
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DIMENSIONS OF PV MODULE



STRUCTURAL CHARACTERISTICS

Module Size	2094x1038x35mm
Weight	23kg
Cell	single crystal PERC 166x83mm(144pieces)
Glass	3.2mm high transparency, tempered glass
Frame	anodized aluminum alloy
Junction Box	IP68, 3 diodes
Output Lead	4.0mm ² 300mm(+)/ 300mm(-) 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	STC	STC	STC	STC
	430	435	440	445	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 (η)	19.78	20.01	20.24	20.47	20.7
Power Tolerance	(0, +3%)				
Maximum System Voltage	1500V DC				
Maximum Rated Fuse Current	20A				
STC: Irradiance 1000 W/m ² 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

