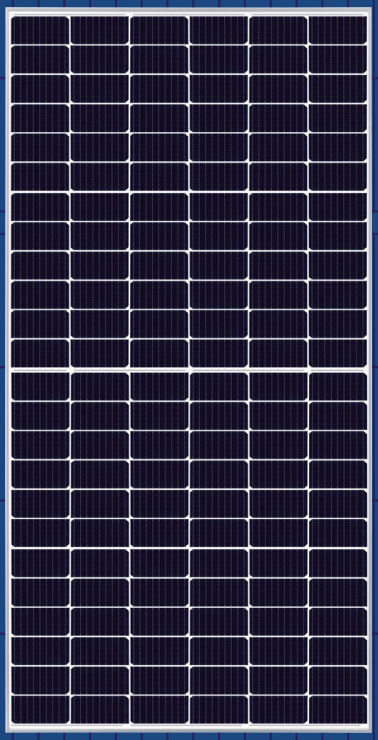
HALF CELL
430W-450W



144 CELL
MONOCRYSTALLINE MODULE

430W-450W
POWER OUTPUT RANGE

20.7%
MAXIMUM EFFICIENCY

0 to +3%
POSITIVE POWER TOLERANCE

15 YEAR PROUDUCT WARRANTY
30 YEAR LINEAR POWER WARRANTY

Main Characteristics

Mismatch loss reduction for maximum efficiency

Reduced power loss by minimising the effect of shadow shading

Competitive low light performance

Two EL tests to ensure the best quality

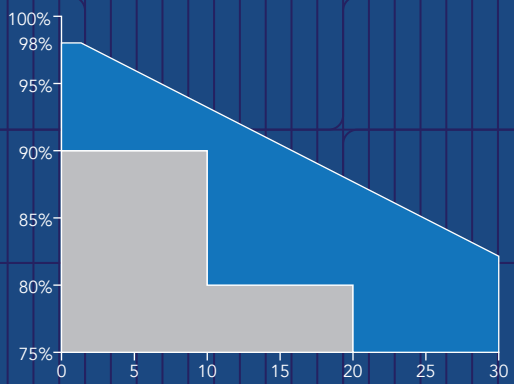
BOS's reduced and increased ROI is ideal for commercial and industrial scale projects

Proven reliability through PVEL's rigorous weatherproofing tests:
· Dust, acid and alkali resistance, hail test
· 2400pa wind pressure and 5400pa snow pressure
· Anti PID

M2 Series

Tide solar redefines the high efficiency module range by combining 182mm cells with PERC and half cell technology.

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



LINEAR PERFORMANCE WARRANTY

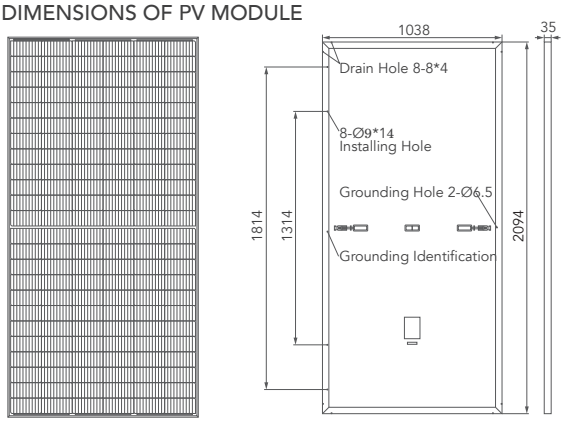
TIDE SOLAR
info@tide-solar.com

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 Efficency (η_m)	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/m² module temperature 25 °C AM=1.5

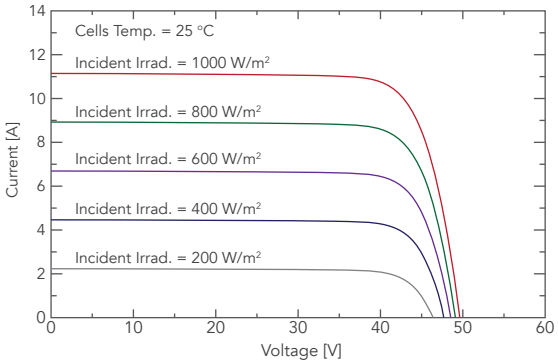
DIMENSIONS OF PV MODULE

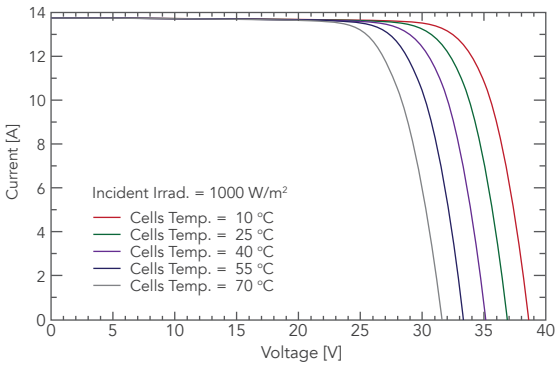


Temperature Characteristics

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

I-V Curve





Structural Characteristics

Module Size	2094x1038x35mm
Weight	23.5kg
Battery	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 2250mm(+) / 350mm(-) or customized
Mechanical Load	front 5400pa / back 2400pa

Packing Method

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