

CED CELL

450W

144 CELL

MONOCRYSTALLINE MODULE

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 minimizing 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



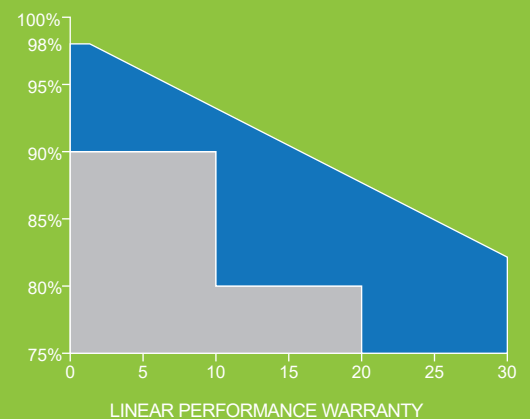
Proven reliability through PVEL's rigorous weatherproofing tests:

- Dust, acid and alkali resistance, hail test
- 2400pa wind pressure and 5400pa snow pressure
- Anti PID

M2 Series

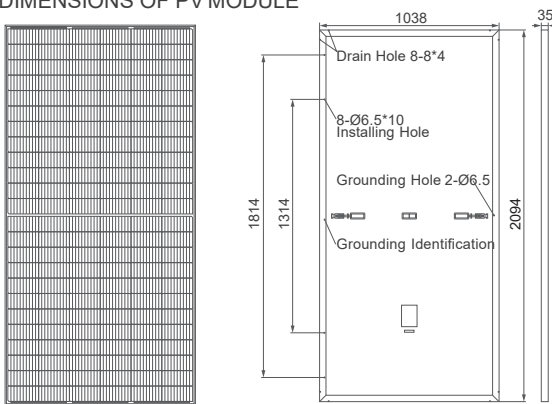
Tide solar redefines the high efficiency module range by combining 182mm cells with PERC and half cell technology.

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



Component Model	CED-450MB-144HC
Maximum Power (PMP)	STC
	450
Open Circuit Voltage (VOC)	50.1
Short Circuit Current (ISC)	11.61
Maximum Power Voltage (VMP)	41.8
Maximum Power Current (IMP)	10.77
Component Efficiency (η_c)	20.7
Power Tolerance	(0, +3%)
Maximum System Voltage	1500V DC
Maximum Rated Fuse Current	20 A
STC: Irradiance 1000 W/m ² module temperature 25 °C AM=1.5	

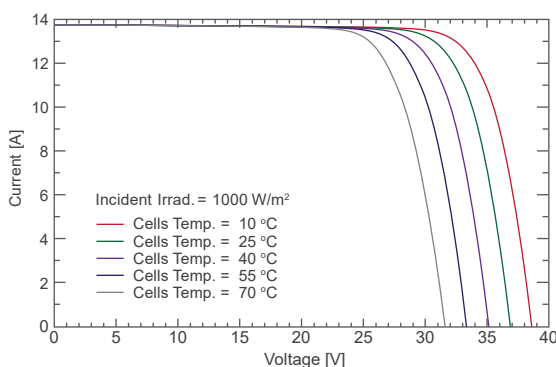
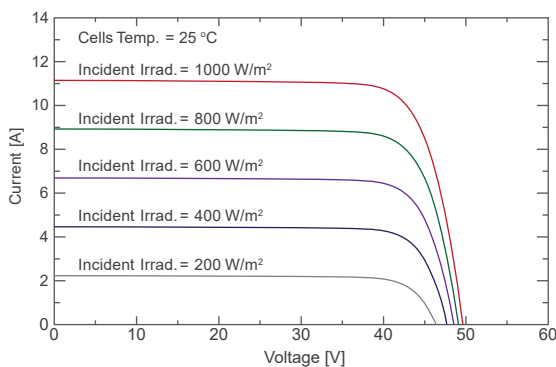
DIMENSIONS OF PV MODULE



Temperature Characteristics

Maximum Power Temperature Coefficient	-0.35 % / °C
Temperature Coefficient Of Open Circuit Voltage	-0.27 % / °C
Temperature Coefficient 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	25kg
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