

# HALF CELL

## 390W-410W



**144 CELL**  
MONOCRYSTALLINE MODULE

**390W-410W**  
POWER OUTPUT RANGE

**20.38%**  
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



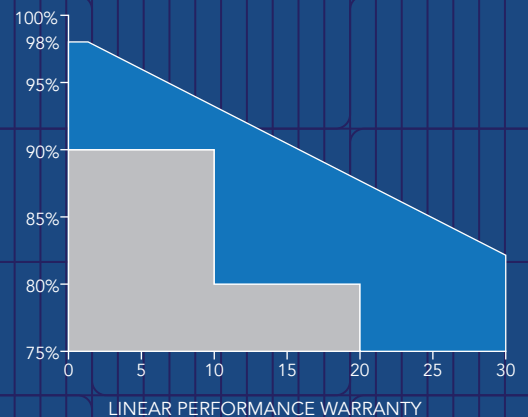
Proven reliability through PVEL's rigorous weatherproofing tests:

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

### M1 Series

Tide solar redefines the high efficiency module range by combining 158.75mm cells with PERC and half cell technology.

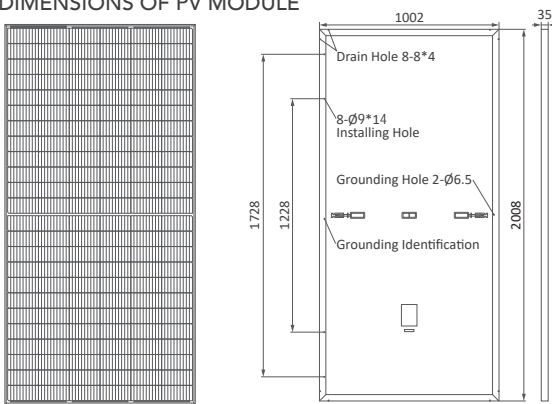
The combination of innovative technology has effectively improved module efficiency and power output.



# Electrical Characteristics

Component Model	TD-390MA-144HC	TD-395MA-144HC	TD-400MA-144HC	TD-405MA-144HC	TD-410MA-144HC
Maximum Power (PMP)	STC	STC	STC	STC	STC
	390	395	400	405	410
Open Circuit Voltage (VOC)	48.5	48.8	49.1	49.4	49.6
Short Circuit Current (ISC)	10.0	10.05	10.1	10.15	10.23
Maximum Power Voltage (VMP)	41.0	41.3	41.6	41.9	42.1
Maximum Power Current (IMP)	9.51	9.57	9.62	9.67	9.74
Component Efficiency ( $\eta_c$ )	19.38	19.63	19.88	20.13	20.38
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					

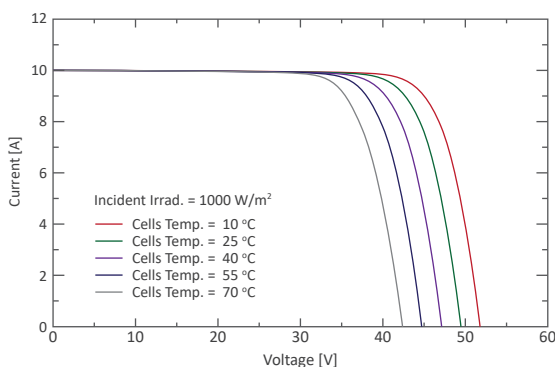
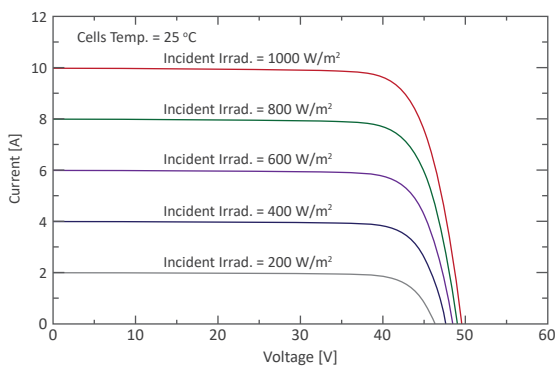
## DIMENSIONS OF PV MODULE



## 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	2008x1002x35mm
Weight	22.0kg
Battery	single crystal PERC158.75x79.375mm (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	2008x1002x35mm
Container	40' HQ
Quantity Per Pallet	31+6*
Number Of Pallets Per Container	22
Quantity Per Container	748