

# TigerOne AS-6M120-HC 365W~385W MONOCRYSTALLINE MODULE

## ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 21.10% by using innovative Half-cell design and Multi-busbar(MBB) cell technology.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Super strong Al-Zn-Mg(AZM) alloy coated steel frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against harsh environmental conditions (Resistant to salt, ammonia, sand, high temperature and high humidity environments).
- Potential induced degradation (PID) resistance.
- Excellent compatibility with steel mounting systems and fast installation.
- Lower product cost and logistic cost, more loading quantity per container.

## CERTIFICATIONS

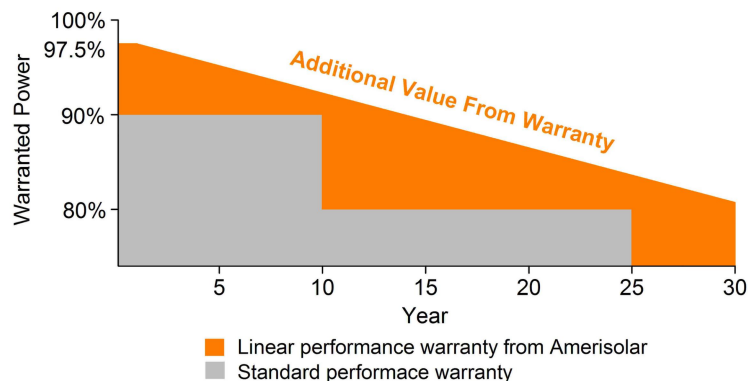


- IEC 61215, IEC 61730, UL 1703, IEC 62716, IEC 61701, IEC TS 62804, CE, CQC
- ISO 9001:2015: Quality management system
- ISO 14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

## SPECIAL WARRANTY

- 20 years product warranty
- 30 years linear power output warranty

**Passionately**  
**committed to**  
**delivering innovative**  
**energy solution**



## ELECTRICAL CHARACTERISTICS AT STC

Maximum Power ( $P_{max}$ )	365W	370W	375W	380W	385W
Open Circuit Voltage ( $V_{OC}$ )	41.4V	41.6V	41.8V	42.0V	42.2V
Short Circuit Current ( $I_{SC}$ )	11.23A	11.30A	11.37A	11.44A	11.51A
Voltage at Maximum Power ( $V_{mp}$ )	34.4V	34.6V	34.8V	35.0V	35.2V
Current at Maximum Power ( $I_{mp}$ )	10.62A	10.70A	10.78A	10.86A	10.94A
Module Efficiency (%)	20.01	20.28	20.55	20.83	21.10
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1000V DC/1500V DC				
Fire Resistance Rating	Type 1(in accordance with UL1703)/Class C(IEC61730)				
Maximum Series Fuse Rating	20A				

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%

## ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power ( $P_{max}$ )	271W	275W	279W	283W	287W
Open Circuit Voltage ( $V_{OC}$ )	38.0V	38.2V	38.4V	38.6V	38.8V
Short Circuit Current ( $I_{SC}$ )	9.09A	9.15A	9.21A	9.27A	9.33A
Voltage at Maximum Power ( $V_{mp}$ )	31.4V	31.6V	31.8V	32.0V	32.2V
Current at Maximum Power ( $I_{mp}$ )	8.64A	8.71A	8.78A	8.85A	8.92A

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1 m/s

## MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline PERC 166*83mm
Number of cells	120 (6x20)
Module dimensions	1756x1039x26mm (69.13x40.91x1.02inches)
Weight	21.5kg (47.4lbs)
Front cover	3.2mm (0.13inches) tempered glass with AR coating
Frame	Alloy steel
Junction box	IP68, 3 diodes
Cable	4mm <sup>2</sup> (0.006inches <sup>2</sup> ), Length: Portrait: 300mm (11.81inches); Landscape: 1200mm (47.24inches)
Connector	MC4 or MC4 compatible

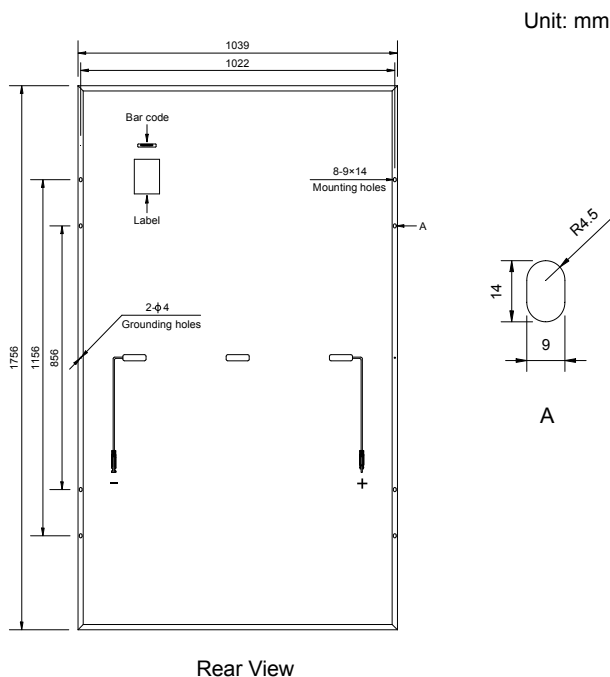
## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	43°C±2°C
Temperature Coefficients of $P_{max}$	-0.36%/°C
Temperature Coefficients of $V_{OC}$	-0.28%/°C
Temperature Coefficients of $I_{SC}$	0.05%/°C

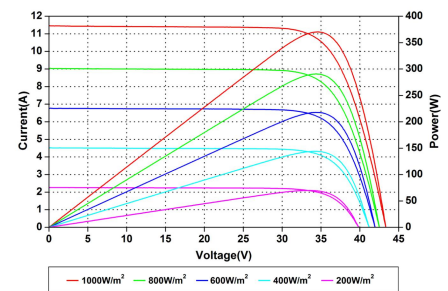
## PACKAGING

Standard packaging	41pcs/pallet
Module quantity per 20' container	246pcs
Module quantity per 40' container	1131pcs

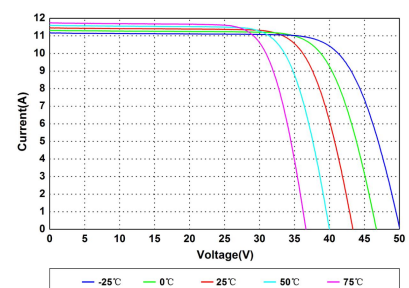
## ENGINEERING DRAWINGS



## IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

Specifications in this datasheet are subject to change without prior notice.