

# AS-7M156-HC 570W~600W

## MONOCRYSTALLINE MODULE

### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 21.46% 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.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.

### CERTIFICATIONS

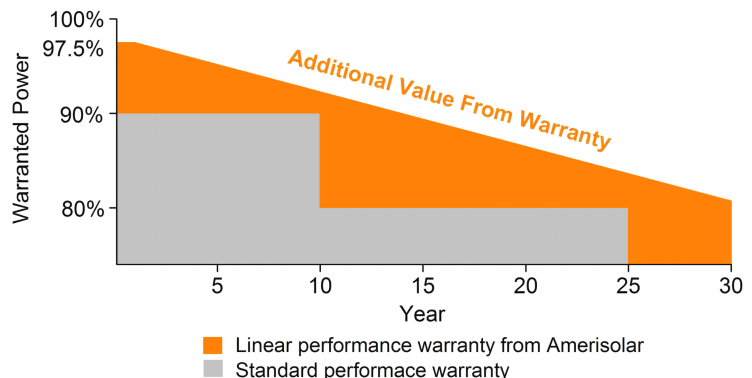
- IEC 61215, IEC 61730, CE
- ISO 9001:2015: Quality management system
- ISO 14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system



### 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 ( $P_{max}$ )	570W	575W	580W	585W	590W	595W	600W
Open Circuit Voltage ( $V_{OC}$ )	53.0V	53.2V	53.4V	53.6V	53.8V	54.0V	54.2V
Short Circuit Current ( $I_{SC}$ )	13.71A	13.75A	13.79A	13.83A	13.87A	13.91A	13.95A
Voltage at Maximum Power ( $V_{mp}$ )	44.1V	44.3V	44.5V	44.7V	44.9V	45.1V	45.3V
Current at Maximum Power ( $I_{mp}$ )	12.93A	12.98A	13.04A	13.09A	13.15A	13.20A	13.25A
Module Efficiency (%)	20.38	20.56	20.74	20.92	21.10	21.28	21.46
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	25A						

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

## ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power ( $P_{max}$ )	427W	431W	435W	439W	443W	447W	451W
Open Circuit Voltage ( $V_{OC}$ )	48.8V	49.0V	49.2V	49.4V	49.6V	49.8V	50.0V
Short Circuit Current ( $I_{SC}$ )	11.11A	11.14A	11.17A	11.20A	11.23A	11.26A	11.29A
Voltage at Maximum Power ( $V_{mp}$ )	40.1V	40.3V	40.5V	40.7V	40.9V	41.1V	41.3V
Current at Maximum Power ( $I_{mp}$ )	10.65A	10.70A	10.75A	10.79A	10.84A	10.88A	10.93A

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

## MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline PERC 182*91mm
Number of cells	156 (6x26)
Module dimensions	2466x1134x40mm (97.09x44.65x1.57inches)
Weight	31kg (68.3lbs)
Front cover	3.2mm (0.13inches) tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm <sup>2</sup> (0.006inches <sup>2</sup> ), Portrait: 300mm (11.81inches); Landscape: 1400mm (55.12inches)
Connector	MC4 or MC4 compatible

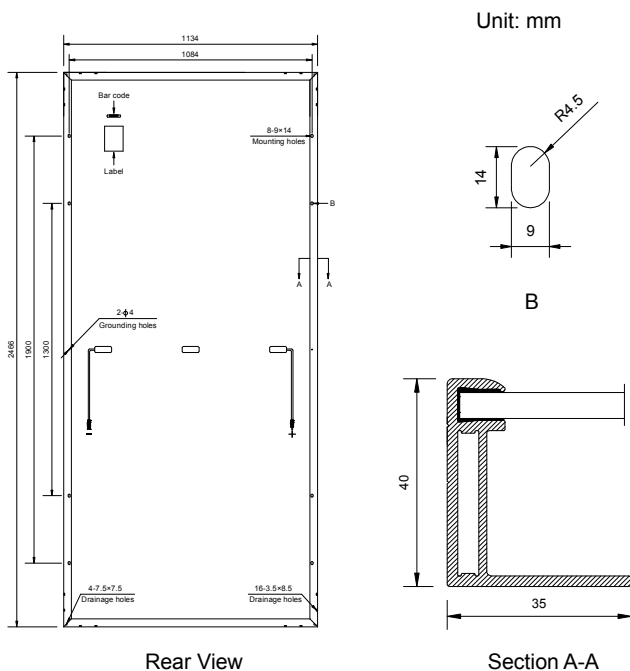
## TEMPERATURE CHARACTERISTICS

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

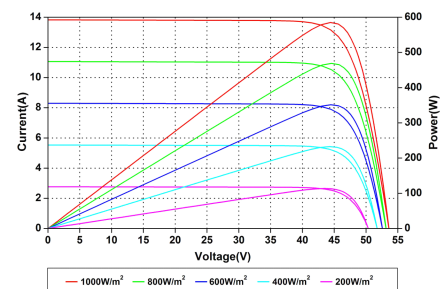
## PACKAGING

Standard packaging	27pcs/pallet
Module quantity per 20' container	108pcs
Module quantity per 40' container	486pcs (HQ)

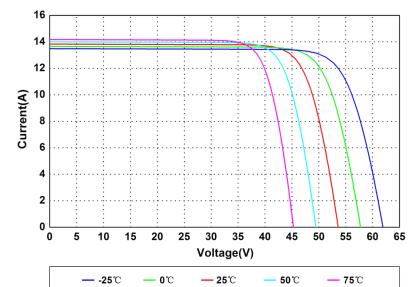
## ENGINEERING DRAWINGS



## 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.