

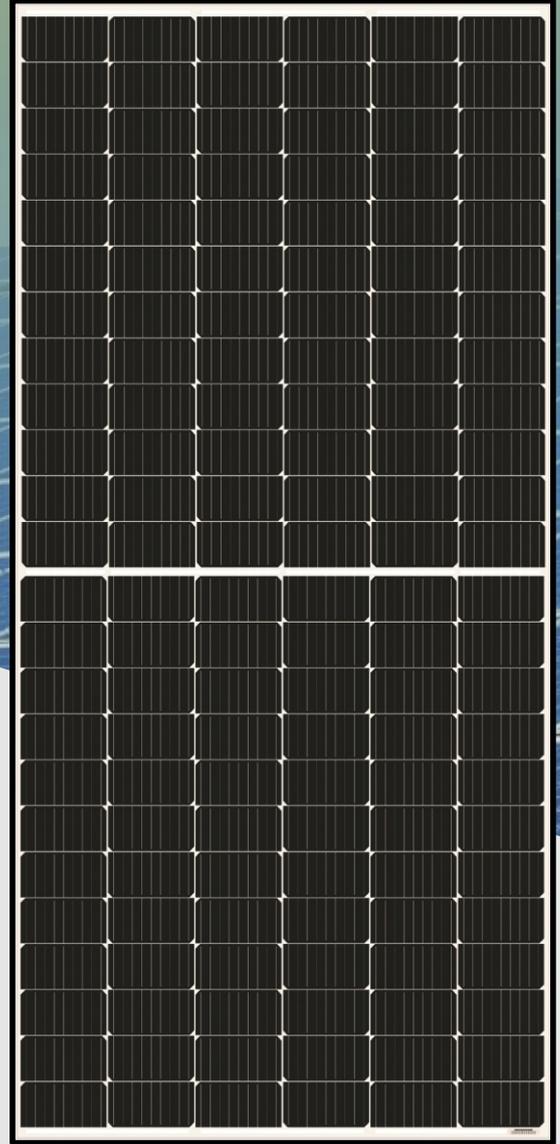
HIGH TECHNOLOGY  
SOLAR MODULES

9BB

HALF-CELL MONO  
PV MODULE

AS-MQ7-156 HC

570W - 600W



HIGH EFFICIENCY MONOCRYSTALLINE SOLAR MODULES WITH HALF CELL TECHNOLOGY

**0+5** Positive power tolerance (0+5W) guaranteed



High performance under low light.  
Works at cloudy, rainy days



The monolithic perc cell structure technology (low resistance characteristics) is adopted ( the maximum conversion efficiency of modules is up to 21.46%)



EXTREME WEATHER RATING. High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (3800 Pa)



Reduced resistance between cells Less micro cracks, higher output power



SUPER STRONG FRAME. The overflow tank is waterproof with double layers. Aluminum frame enhances the mechanical load strength by 10%



IEC61215/IEC61730/IEC61701 /IEC62716  
ISO 9001 ISO 14001 | ISO14064 | OHSAS  
1 8001 | MANAGEMENT SYSTEM

# AS - MQ7 - 156 HC 570-600 W

## 9BB HALF-CELL MONOCRYSTALLINE PV SOLAR MODULE

### ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (Pmax)	570W	575W	580W	585W	590W	595W	600W
Open Circuit Voltage (Voc)	53.0V	53.2V	53.4V	53.6V	53.8V	54.0V	54.2V
Short Circuit Current (Isc)	13.71A	13.75A	13.79A	13.83A	13.87A	13.91A	13.95A
Voltage at Maximum Power (Vmp)	44.1V	44.3V	44.5V	44.7V	44.9V	45.1V	45.3V
Current at Maximum Power (Imp)	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 Pmax: ±3%; Measurement Tolerance: ±3%

### ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power (Pmax)	427W	431W	435W	439W	443W	447W	451W
Open Circuit Voltage (Voc)	48.8V	49.0V	49.2V	49.4V	49.6V	49.8V	50.0V
Short Circuit Current (Isc)	11.11A	11.14A	11.17A	11.20A	11.23A	11.26A	11.29A
Voltage at Maximum Power (Vmp)	40.1V	40.3V	40.5V	40.7V	40.9V	41.1V	41.3V
Current at Maximum Power (Imp)	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

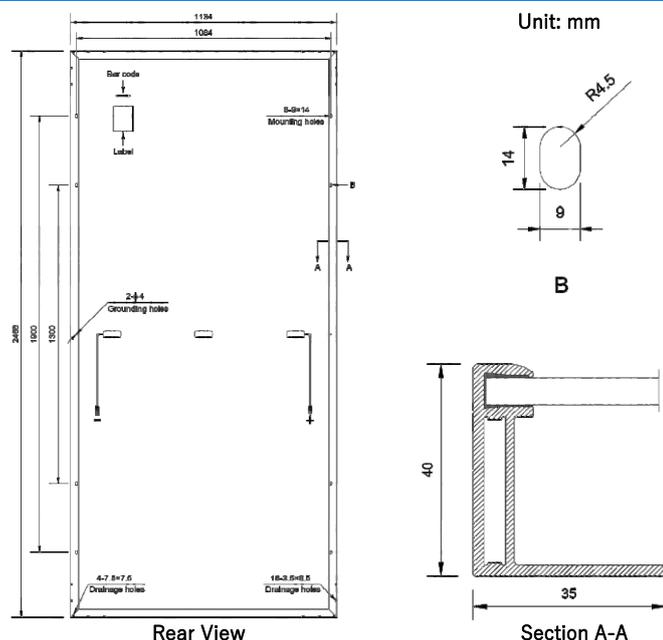
### TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	43° C±2° C
Temperature Coefficients of Pmax	-0.36%/° C
Temperature Coefficients of Voc	-0.28%/° C
Temperature Coefficients of Isc	0.05%/° C

### PACKAGING

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

### ENGINEERING DRAWINGS



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

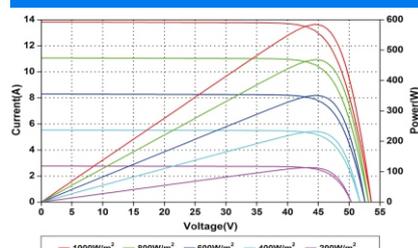
**WARRANTY**

**12 YEARS  
PRODUCT WARRANTY**

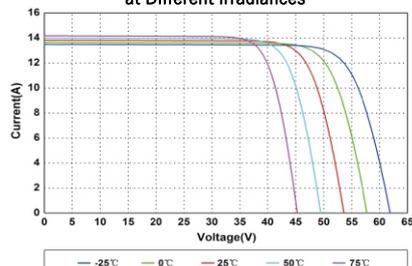
**30 YEARS  
POWER WARRANTY**



### IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures