



HIGHWAY Solar Module

HT72-156M-4BB-315W/320W/325W

Reliable State-owned Enterprise
Deliver Solar Power since 1960s



Shanghai Aerospace Automobile
Electromechanical Co., Ltd

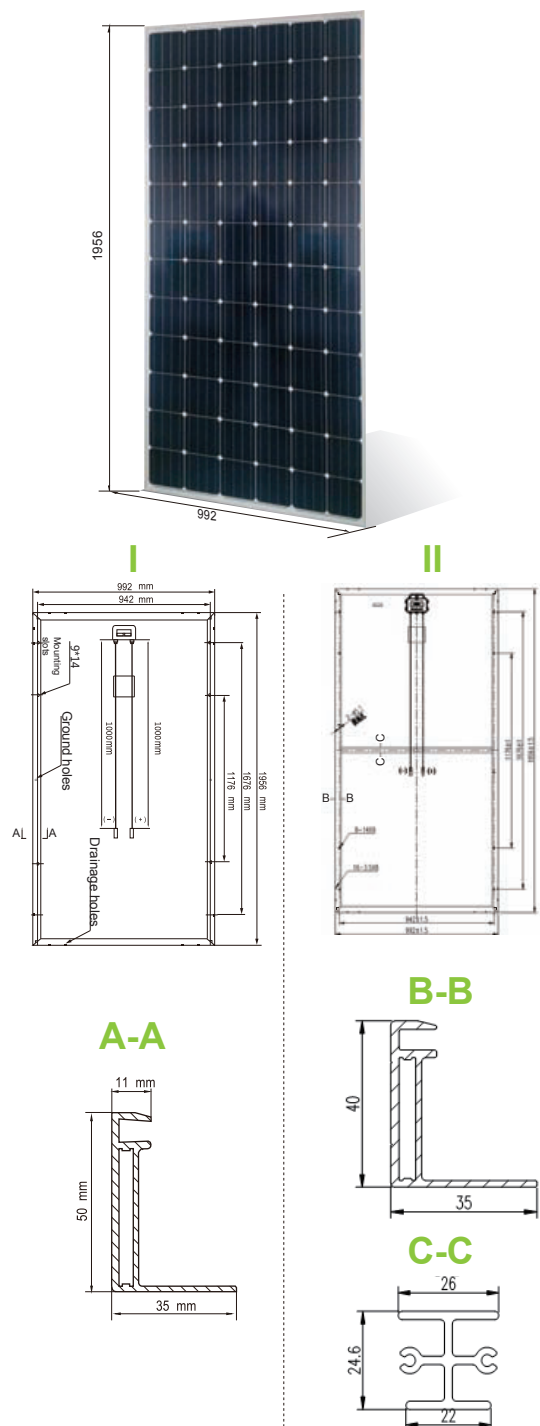
Key Features

Cell Efficiency **19.6 %** Power Output **325 W**

Warranty on Materials
and Workmanship **10 YEARS**

Warranty on
Power Output **25 YEARS**

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Shorter current
transmission path



Less SOLAR CELL'S
series resistance



PID (potential induced
degradation) Resistant



All HT modules are double EL
tested avoiding invisible
cracks, dark cells and broken
bars to ensure the perfor-
mance, quality and reliability.



Independent international
authentication certified.



HT-SAAE guarantees highest
production standards:
IEC 61215, IEC 61730, IEC 62716
(Ammonia corrosion)
& IEC 61701 (Salt Mist Corrosion)



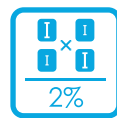
Higher module's
output power



Guaranteed positive tolerance
0/+5w ensures power output
reliability



Excellent performance under
low light environments
(mornings, evenings and
cloudy days)



All the modules are sorted and
packaged by amperage,
reducing mismatch losses and
maximizing system output.



Entire module certified to
withstand extreme wind (2400 Pa)
and snow loads (5400 Pa)



Strict quality control, meeting
the highest international
standards: ISO 9001,
ISO14001 and OHSAS18001



Electrical Charateristricts

STC

Module	HT72-156M-4BB-315	HT72-156M-4BB-320	HT72-156M-4BB-325
Maximum Power at STC(Pmax)	315W	320W	325W
Open-Circuit Voltage(Voc)	45.3V	45.5V	45.7V
Optimum Operating Voltage (Vmp)	37.5V	37.9V	38.3V
Short-Circuit Current(Isc)	9.00A	9.07A	9.14A
Optimum Operating Current(Imp)	8.40A	8.45A	8.49A
Module Efficiency	16.2%	16.5%	16.7%
Power Tolerance	0 ~ +5W		
Maximum System Voltage	1000V DC (IEC) / 600V DC(UL)		
Maximum Series Fuse Rating	15A		
Operating Temperature	-40 °C to +85 °C		

STC:Irradiance 1000W/m², module temperature 25, AM=1.5

Optional black frame or white frame module according to customer requirements

NOCT

Module	HT72-156M-4BB-315	HT72-156M-4BB-320	HT72-156M-4BB-325
Maximum Power	230W	234W	238W
Open Circuit Voltage (Voc)	41.0V	41.2V	41.4V
Maximum Power Voltage (Vmp)	34.0V	34.3V	34.7V
Short Circuit Current (Isc)	7.27A	7.32A	7.38A
Maximum Circuit Current (Imp)	6.78A	6.82A	6.85A
NOCT	45 °C ± 2 °C		

NOCT : Irradiance 800W/m², ambient temperature 20°C, wind speed 1 m/s

Mechanical Characteristics

Solar Cells	Monocrystalline156 × 156mm
No.of Cells	72 (6 × 12)
Dimensions	1956 × 992 × 50/40mm (77.0 × 39.1 × 1.97/1.57in)
Weight	27.0kg (59.5lbs) / 23kg (50.7lbs)
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 / IP65 3diodes
Cable	4mm ² (IEC)/12AWG(UL), 1000mm
Connectors	MC4/MC4 Comparable
Module Pieces per Container (40' High Cube Container)	440/550pcs (Varies depending on the size)

Temperature Characteristics

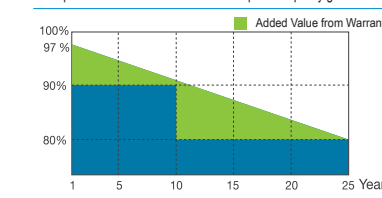
Temperature Coefficient of Pmax	γ (Pm)	-0.41%/K
Temperature Coefficient of Voc	β (Voc)	-0.34%/K
Temperature Coefficient of Isc	α (Isc)	0.049%/K

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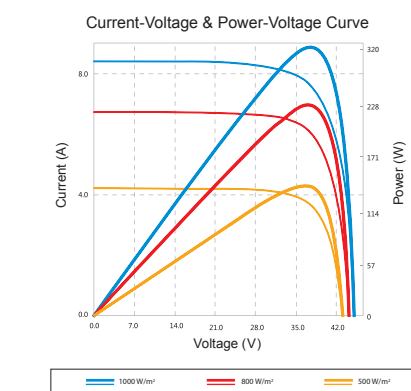
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Warranty

- 10-year product warranty
- 25-year warranty on power output
- Specific information is referred to the product quality guarantee



I-V Curves



Information Box