

HIGHWAY Solar Module

HT72-156P-4BB-305W/310W/315W

Reliable State-owned Enterprise
Deliver Solar Power since 1960s



Shanghai Aerospace Automobile
Electromechanical Co., Ltd

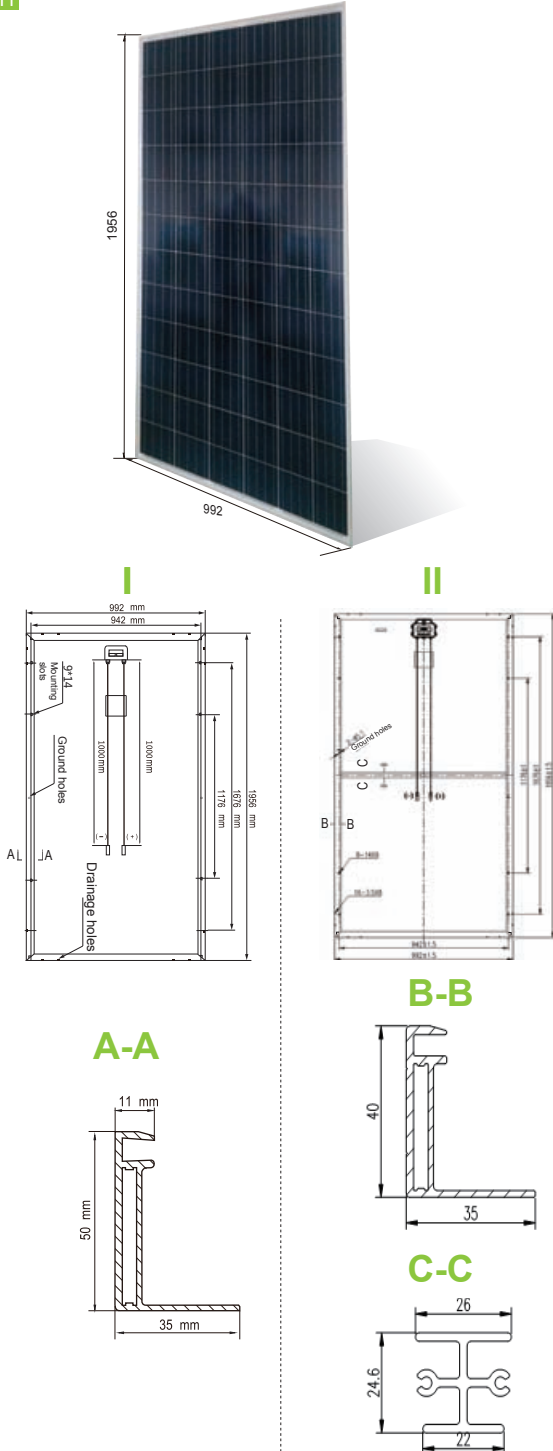
Key Features

Cell Efficiency **18.2 %** Power Output **315 W**

Warranty on Materials and Workmanship **10 YEARS**

Warranty on Power Output **25 YEARS**

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W Shorter current transmission path

Ω Less SOLAR CELL'S series resistance

PID PID (potential induced degradation) Resistant

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

IEC Independent international authentication certified.

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



P Higher module's output power

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

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

1x1 All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.

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

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



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Electrical Characteristics

Module	HT72-156P-4BB-305	HT72-156P-4BB-310	HT72-156P-4BB-315
Maximum Power at STC(Pmax)	305W	310W	315W
Open-Circuit Voltage(Voc)	45.0V	45.2V	45.4V
Optimum Operating Voltage (Vmp)	37.0V	37.4V	37.8V
Short-Circuit Current(Isc)	8.91A	8.98A	9.05A
Optimum Operating Current(Imp)	8.25A	8.29A	8.34A
Module Efficiency	15.7%	16.0%	16.2%
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

Module	HT72-156P-4BB-305	HT72-156P-4BB-310	HT72-156P-4BB-315
Maximum Power	223W	227W	230W
Open Circuit Voltage (Voc)	40.7V	40.9V	41.1V
Maximum Power Voltage (Vmp)	33.5V	33.9V	34.2V
Short Circuit Current (Isc)	7.19A	7.25A	7.31A
Maximum Circuit Current (Imp)	6.66A	6.69A	6.73A
NOCT	45 °C ± 2 °C		

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

Mechanical Characteristics

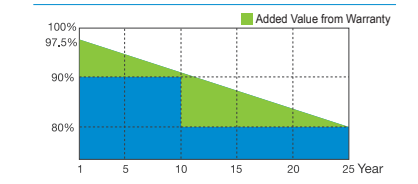
Solar Cells	Polycrystalline 156 × 156mm	
No. of Cells	72 (6 × 12)	
Dimensions	1956 × 992 × 50/40mm (77.0 × 39.1 × 1.97/1.57in)	
Weight	27.0kg (59.5 lbs) / 23kg (50.7lbs)	
Front Glass	High transmission tempered glass	
Frame	Anodized aluminium alloy	
Junction Box	IP67 / IP65 3diodes	
Cable	4mm ² (IEC)/12AWG(UL),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

Temperature Characteristics

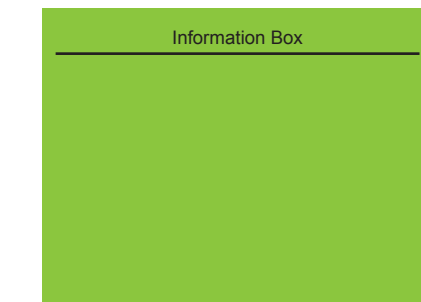
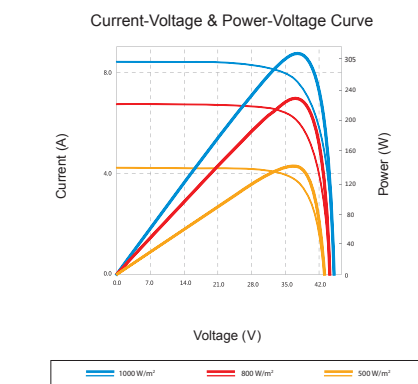
Temperature Coefficient of Pmax	γ (Pm)	-0.41%/K
Temperature Coefficient of Voc	β (Voc)	-0.34%/K
Temperature Coefficient of Isc	α (Isc)	0.049%/K

Warranty

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



I-V Curves



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