

* V means 1500V module

HT60-156M-MC
HT60-156M(V)-MC

Shanghai Aerospace Automobile
Electromechanical Co., Ltd.
website: www.ht-saae.com



Factory :
Lianyungang ShenZhou New Energy Co., Ltd.
Turkey HT Solar Energy Joint Stock Company

NEW

POWER OUTPUT

310W / 315W
320W / 325W / 330W



● Module Efficiency:
19.9%

● Total Cells:
120 (6 × 20)

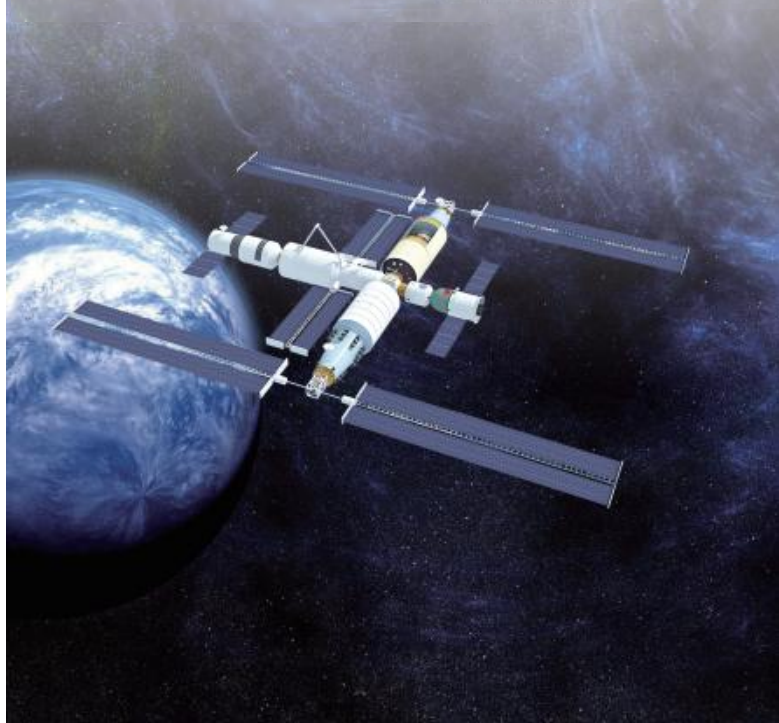
● Weight:
19.0g

● Dimensions:
1665mm × 992mm × 30mm
(66in × 39in × 1.18in)



● (Optional)
Design of Water
Leakage Trough

Monocrystalline
166.75 × 79.375mm



Half cut cell technology can reduce the internal power loss and improve component overall power. Excellent heat dissipation avoids hot spot production.



MBB The optimized number and width of main gate lines, Maximize the light receiving area of components and Reduce component power consumption

10Ys
Products
Warranty



Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs

25Ys
Warranty on
power output



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

EL

Microcrack resistant Double glass structure enhance reliability, triple EL tested of high quality control.

5W

Positive tolerance
0/+5w guaranteed



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

PID

PID Resistant

Comprehensive and first-rate certification system

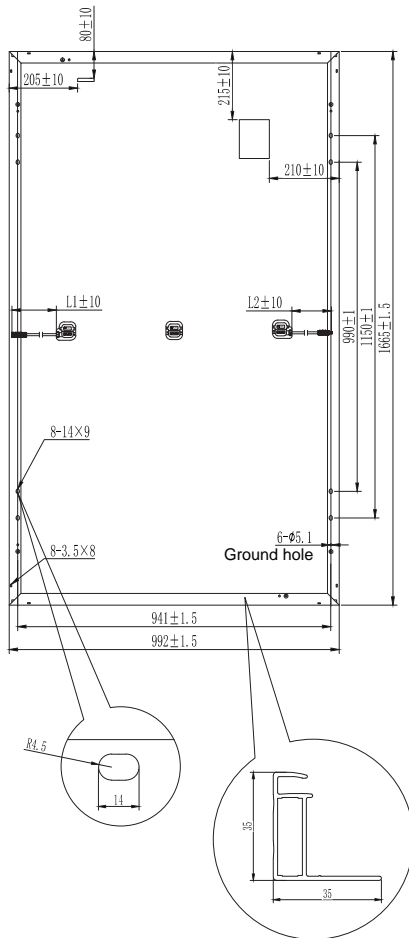
IEC61215: 2016, IEC61730: 2016 Latest Standard
ISO9001, ISO14001 and OHSAS18001,
meeting the highest international standards
Strict quality control



IEC 61215
IEC 61730
Regular Production
Surveillance
www.tuv.com

MULTIWAY

Engineering Drawing



Electrical Characteristics

Module	HT60-156M-MC / HT60-156M(V)-MC				
Maximum Power at STC(Pmax)	310W	315W	320W	325W	330W
Open-Circuit Voltage(Voc)	40.2V	40.4V	40.6V	40.8V	41V
Short-Circuit Current(Isc)	10.12A	10.23A	10.34A	10.45A	10.56A
Optimum Operating Voltage (Vmp)	33.3V	33.5V	33.7V	33.9V	34.1V
Optimum Operating Current(Imp)	9.32A	9.42A	9.51A	9.6A	9.69A
Module Efficiency	18.77%	19.07%	19.37%	19.68%	19.98%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1000V / 1500V DC(IEC)				
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	HT60-156M-MC / HT60-156M(V)-MC				
Maximum Power	230W	233W	237W	241W	244W
Open Circuit Voltage (Voc)	38V	38.2V	38.4V	38.6V	38.7V
Short Circuit Current (Isc)	8.17A	8.26A	8.35A	8.44A	8.53A
Maximum Power Voltage (Vmp)	31.5V	31.7V	31.8V	32V	32.2V
Maximum Circuit Current (Imp)	7.3A	7.35A	7.45A	7.53A	7.58A
NOCT	45°C ±2°C				

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

Mechanical Characteristics

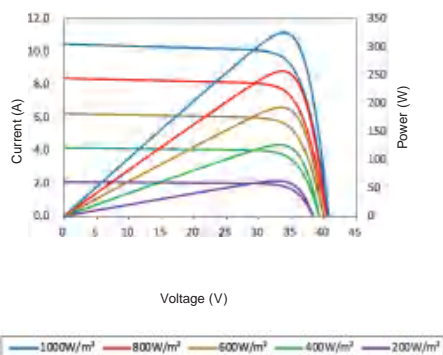
Solar Cells	Monocrystalline 156.75 × 78.375mm				
No. of Cells	120 (6 × 20)				
Dimensions	1665mm×992mm×35mm(66in×39in×1.4in)				
Weight	19.0kg				
Front Glass	High transmission tempered glass				
Frame	Anodized aluminium alloy				
Junction Box	IP67				
Cable	4mm ² (IEC)				
Connectors	MC ₄ / MC ₄ Compatible				
Packaging Configuration	30pcs / box, 840pcs / 40'HQ Container				

Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.39%/K
Temperature Coefficient of Voc	β (Voc)	-0.29%/K
Temperature Coefficient of Isc	α (Isc)	0.049%/K

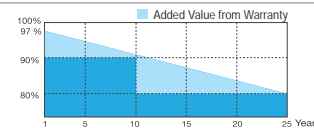
I-V Curves

Current-Voltage & Power-Voltage Curve



Warranty

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



Information Box