

# HT60-156M-C HT60-156M(V)-C

\* V means 1500V module

Big Size

## 315W / 320W / 325W 330W / 335W



- Module Efficiency: 19.9%
- No. of Cells: 60 (6 × 20)
- Weight: 18.5kg
- Dimensions: 1684mm×1002mm×35mm

HT-SAAE started on solar technology research for China's Satellite Application since 1960

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



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

12Yrs  
Products  
Warranty

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

25Yrs  
Warranty on  
power output

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

PID  
PID Resistant

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

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

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

5W  
Positive tolerance  
0/+5w guaranteed

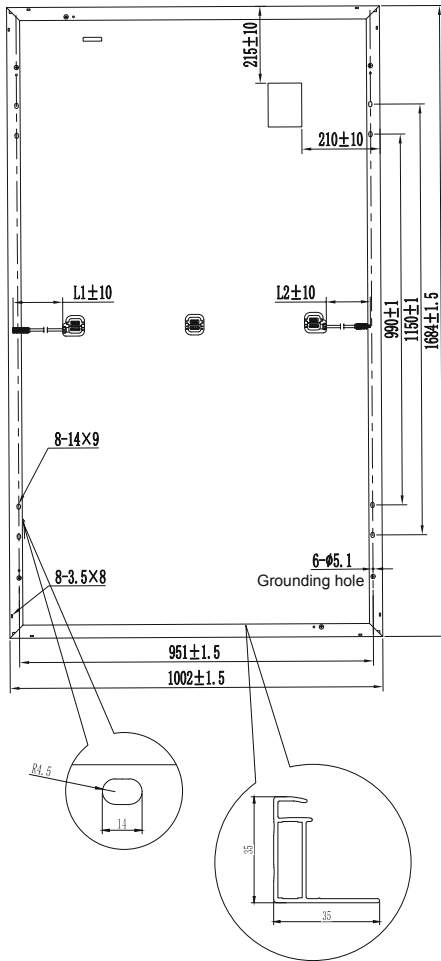
**Comprehensive and first-rate certification system**

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



MULTIWAY+

### • Engineering Drawing



### • Electrical Characteristics

Module	HT60-156M-C / HT60-156M(V)-C				
Maximum Power at STC(Pmax)	315W	320W	325W	330W	335W
Open-Circuit Voltage(Voc)	40.1V	40.2V	40.3V	40.4V	40.5V
Short-Circuit Current(Isc)	10.36A	10.49A	10.61A	10.74A	10.87A
Optimum Operating Voltage (Vmp)	33.7V	33.8V	33.9V	34.1V	34.3V
Optimum Operating Current(Imp)	9.37A	9.49A	9.60A	9.69A	9.78A
Module Efficiency	18.7%	19.0%	19.3%	19.6%	19.9%
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/m<sup>2</sup>, module temperature 25, AM=1.5  
Optional black frame or white frame module according to customer requirements

### • NOCT

Module	HT60-156M-C / HT60-156M(V)-C				
Maximum Power	233W	237W	241W	244W	248W
Open Circuit Voltage (Voc)	37.9V	38.0V	38.1V	38.2V	38.3V
Short Circuit Current (Isc)	8.37A	8.47A	8.57A	8.67A	8.78A
Maximum Power Voltage (Vmp)	31.8V	31.9V	32.0V	32.2V	32.4V
Maximum Circuit Current (Imp)	7.33A	7.43A	7.53A	7.58A	7.65A
NOCT	45°C ±2°C				

\*NOCT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20 °C, wind speed 1 m/s

### • Mechanical Characteristics

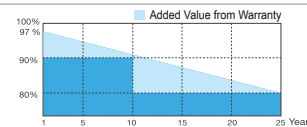
Solar Cells	Monocrystalline 158.75 × 79.375mm
No. of Cells	120 (6 × 20)
Dimensions	1684mm × 1002mm × 35mm
Weight	19.0kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67
Cable	4mm <sup>2</sup> (IEC) Length: (+)200mm, (-)300mm
Connectors	MC4 / MC4 Compatible
Packaging Configuration	30pcs / box, 780pcs / 40'HQ Container

### • Temperature Characteristics

Temperature Coefficient of Pmax	$\gamma$ (Pm)	-0.39%/K
Temperature Coefficient of Voc	$\beta$ (Voc)	-0.29%/K
Temperature Coefficient of Isc	$\alpha$ (Isc)	0.049%/K

### • Warranty

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



### • I-V Curves

Current-Voltage & Power-Voltage Curve

