

\* V means 1500V module

HT60-156M  
HT60-156M(V)

POWER OUTPUT

**300W / 305W**  
**310W / 315W / 320W**



- Module Efficiency:  
19.67%
- No. of Cells:  
60 (6 × 10)
- Weight:  
18.5kg
- Dimensions:  
1640mm×992mm×35mm



Monocrystalline  
156.75 × 156.75mm



Shanghai Aerospace Automobile  
Electromechanical Co., Ltd.  
website: [www.ht-saae.com](http://www.ht-saae.com)



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

PID

PID Resistant



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



Advanced surface  
treatment, lower  
surface reflection and  
5BB cell design can  
reduce the series  
resistance and  
improve the module  
efficiency

1000 Pa

Certified to  
withstand dynamic  
mechanical load  
1000 Pascal



Microcrack resistant  
Triple EL tested of  
high quality control.



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



Ammonia / Salt Mist  
Corrosion resistant

2%

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

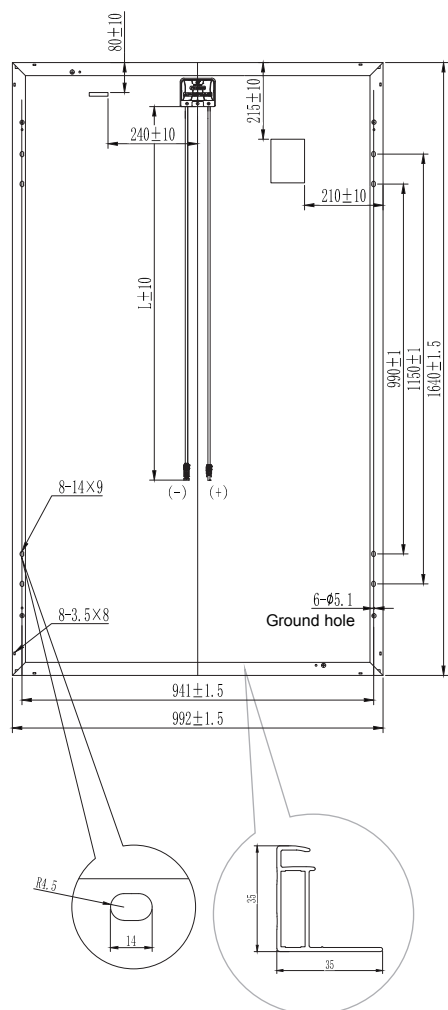
Comprehensive and first-rate  
certification system

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](http://www.tuv.com)

## Engineering Drawing



## Electrical Characteristics

Module	HT60-156M / HT60-156M(V)				
Maximum Power at STC(Pmax)	300W	305W	310W	315W	320W
Open-Circuit Voltage(Voc)	39.4V	39.8V	40.1V	40.4V	40.6V
Short-Circuit Current(Isc)	9.96A	10.06A	10.16A	10.26A	10.36A
Optimum Operating Voltage (Vmp)	32.5V	32.8V	33.1V	33.4V	33.7V
Optimum Operating Current(Imp)	9.25A	9.32A	9.38A	9.44A	9.51A
Module Efficiency	18.4%	18.8%	19.1%	19.4%	19.67%
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 / HT60-156M(V)				
Maximum Power	222W	226W	230W	233W	237W
Open Circuit Voltage (Voc)	37.2V	37.4V	37.9V	38.2V	38.4V
Short Circuit Current (Isc)	8.04A	8.12A	8.20A	8.28A	8.37A
Maximum Power Voltage (Vmp)	30.7V	31.0V	31.3V	31.6V	31.8V
Maximum Circuit Current (Imp)	7.23A	7.29A	7.35A	7.37A	7.45A
NOCT	45°C ±2°C				

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

## Mechanical Characteristics

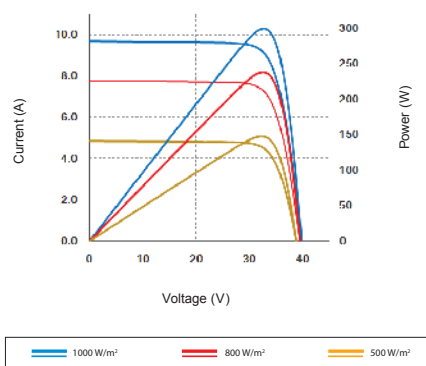
Solar Cells	Monocrystalline 156.75 × 156.75mm
No. of Cells	60 (6 × 10)
Dimensions	1640mm×992mm×35mm
Weight	18.5kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67
Cable	4mm² (IEC)
Connectors	MC4 / MC4 Compatible
Packaging Configuration	30pcs / box, 840pcs / 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

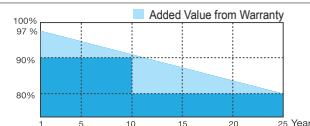
## I-V Curves

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