

* V means 1500V module

HT60-156M
HT60-156M(V)

NEW

Big Size Cell: 158.75*158.75

**315W / 320W /
325W / 330W / 335W**

High Efficiency Low LID Bifacial PERC Technology



Transparent Backsheet

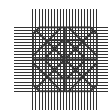
- Module Efficiency: 19.9%
- No. of Cells: 60 (6 × 10)
- Weight: 19.0kg
- Dimensions: 1684mm×1002mm×35mm



Shanghai Aerospace Automobile
Electromechanical Co., Ltd.
website: www.htsolar.com.tr



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



Transparent Backsheet structure which enhance the Module power increases 5-25% generally (per different reflective condition) lower LCOE and higher IRR

12Ys

Products Warranty



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

30Ys

Warranty on power output

EL

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



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



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

PID

PID Resistant

5W

Positive tolerance 0/+5w guaranteed

Comprehensive and first-rate certification system

IEC61215: 2016, IEC61730: 2016 Latest Standard and UL 1703 Latest Standard, ISO9001, ISO14001 and OHSAS18001, meeting the highest international standards
Strict quality control



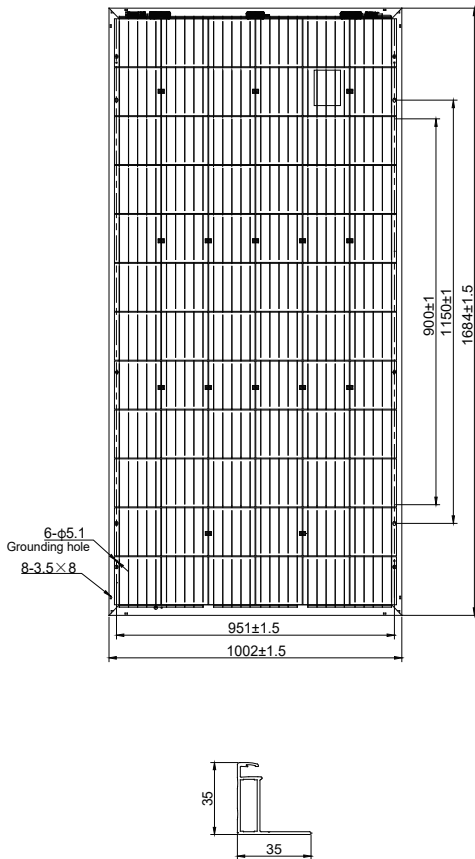
IEC 61215
IEC 61730
Regular Production
Surveillance
www.tuv.com



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

• Engineering Drawing



• Electrical Characteristics

Module	HT60-156M / HT60-156M(V)				
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(UL/IEC)				
Maximum Series Fuse Rating	15/20A				
Operating Temperature	-40 °C to +85 °C				

*STC:Irradiance 1000W/m², module temperature 25 °C, AM=1.5
Optional black frame or white frame module according to customer requirements

• BIFACIAL REAR SIDE POWER GAIN

Electrical characteristics with different rear side power gain (reference to 335W front)

Module	HT60-156M / HT60-156M(V) - 335				
Maximum Power	Pmax Gain	Voc/V	Isc/A	Vmp/V	Imp/A
352W	5%	40.5	11.35	34.3	10.27
369W	10%	40.5	11.89	34.3	10.76
385W	15%	40.5	12.43	34.3	11.25
402W	20%	40.5	12.97	34.3	11.74
419W	25%	40.5	13.51	34.3	12.23

*bifacial gain:the additional gain from the rear side compared to the power of the front side at the standard test condition.
It depends on mounting(structure,height,tilt angle etc.)and albedo of the ground.

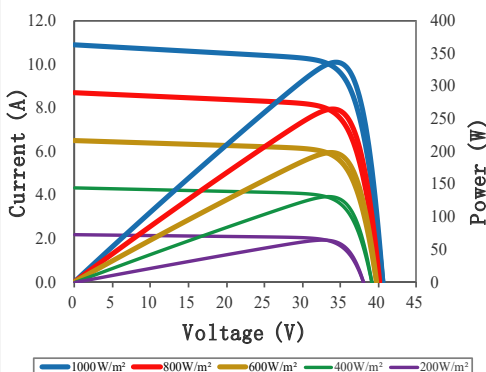
• NOCT

Module	HT60-156M / HT60-156M(V)				
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/m², ambient temperature 20 °C, wind speed 1 m/s

• I-V Curves

Current-Voltage & Power-Voltage Curve



• Mechanical Characteristics

Solar Cells	Monocrystalline 158.75 × 158.75mm
No.of Cells	60 (6 × 10)
Dimensions	1684mm×1002mm×35mm
Weight	19.0kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm ² (UL/IEC) Length: 1000mm
Connectors	MC+ Compatible
Packaging Configuration	30pcs / box, 910 pcs / 40'HQ Container

• Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.355%/ °C
Temperature Coefficient of Voc	β (Voc)	-0.275%/ °C
Temperature Coefficient of Isc	α (Isc)	+0.065%/ °C

• Warranty

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

