

* V means 1500V module

HT60-156M(PD)-BF
HT60-156M(PDV)-BF

NEW

Big Size Cell: 158.75*158.75

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



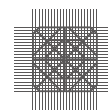
- Module Efficiency:
19.7%
- No. of Cells:
60 (6 × 10)
- Weight:
26.0kg
- Dimensions:
1686mm×1008mm×30mm



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.



**Double glass structure
which enhance the
reliability of
anti-microcracks,
reduce the snail
tracks phenomenon**

12Ys

**Products
Warranty**

30Ys

**Warranty on
power output**



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

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, increas-
ing 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

Warranty partner



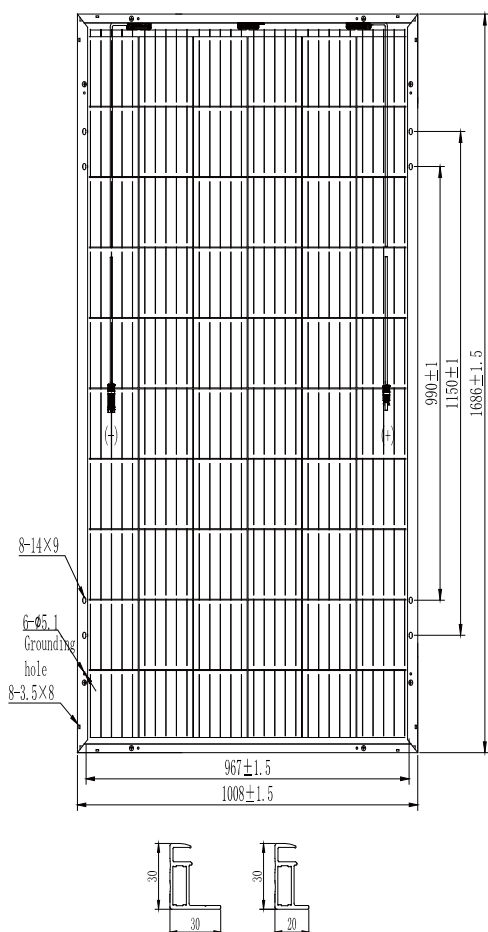
IEC 61215
IEC 61730
Regular Production
Surveillance
www.tuv.com

Munich RE



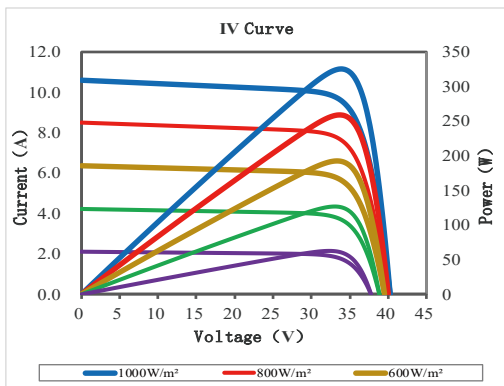
www.munichre.com/PVWarrantyPartner

• Engineering Drawing



• I-V Curves

Current-Voltage & Power-Voltage Curve



• Electrical Characteristics

Module	HT60-156M(PD)-BF / HT60-156M(PDV)-BF				
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	18.5%	18.8%	19.1%	19.4%	19.7%
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

• NOCT

Module	HT60-156M(PD)-BF / HT60-156M(PDV)-BF				
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

• Mechanical Characteristics

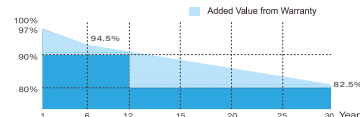
Solar Cells	Monocrystalline 158.75 × 158.75mm
No. of Cells	60 (6 × 10)
Dimensions	1686mm × 1008mm × 30mm
Weight	26.0kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm² (UL/IEC) Length: 1200mm
Connectors	MC4 Compatible
Packaging Configuration	34pcs / box, 949 pcs / 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

• Warranty

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



• Information Box