

\*V means 1500V module

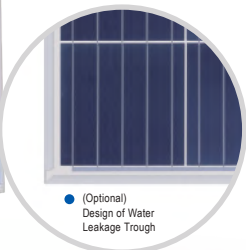
HT60-156P  
HT60-156P(V)

POWER OUTPUT

270W / 275W  
280W / 285W / 290W



- Module Efficiency: 17.83%
- No. of Cells: 60 (6 × 10)
- Weight: 18.5kg
- Dimensions: 1640mm×992mm×35mm



Polycrystalline  
156.75 × 156.75mm



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



Factory :  
Lianyungang Shenzhou New Energy Co., Ltd.  
HT SOLAR ENERJİ A.Ş.

CHEN GUNES ENERJISI SANAYİ VE TİCARET LIMITED SİRKETİ



Designed for high  
voltage systems of up  
to 1500 VDC,  
increasing 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



Microcrack resistant  
Triple EL tested of  
high quality control.



Design Load/Safety  
Factors:  
2400 Pa / 1.5 (Wind)  
2400 Pa / 1.5 (Snow)



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

Made in China


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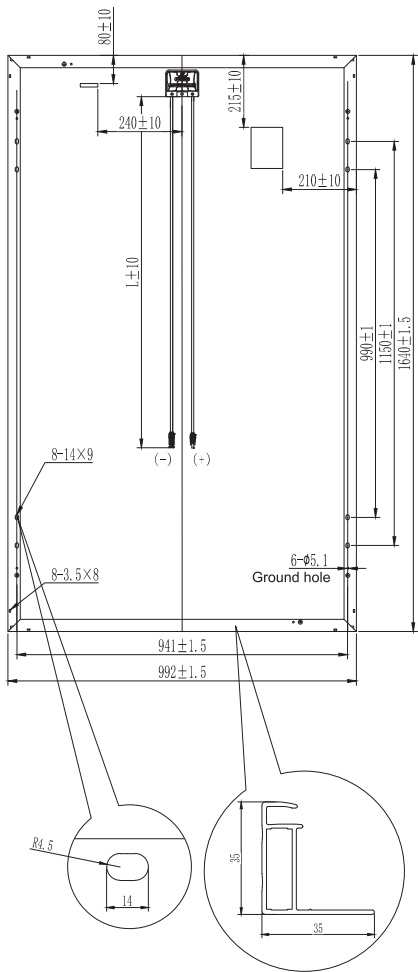
Solar

Airworks

Plumbing

Electrical

Engineering Drawing



Electrical Characteristics

Module	HT60-156P / HT60-156P(V)				
Maximum Power at STC(Pmax)	270W	275W	280W	285W	290W
Open-Circuit Voltage(Voc)	37.9V	38.2V	38.5V	38.7V	38.9V
Short-Circuit Current(Isc)	9.38A	9.47A	9.56A	9.69A	9.82A
Optimum Operating Voltage (Vmp)	30.8V	31V	31.2V	31.5V	31.7V
Optimum Operating Current(Imp)	8.78A	8.88A	8.98A	9.06A	9.16A
Module Efficiency	16.6%	16.9%	17.21%	17.52%	17.83%
Power Selection	0 ~ +5W				
Tolerance	Pmax: ±3%; Voc:±5%; Isc: ±5%				
Maximum System Voltage	1000V / 1500V DC(IEC)				
Maximum Series Fuse Rating	15A				
Operating Temperature	-40 °C to +85 °C				

NOCT

Module	HT60-156P / HT60-156P(V)				
Maximum Power	199W	203W	207W	210W	214W
Open Circuit Voltage (Voc)	35.6V	35.9V	36.2V	36.3V	36.5V
Short Circuit Current (Isc)	7.58A	7.65A	7.72A	7.83A	7.93A
Maximum Power Voltage (Vmp)	28.9V	29.1V	29.3V	29.6V	29.8V
Maximum Circuit Current (Imp)	6.89A	6.98A	7.06A	7.09A	7.18A
NOCT	45°C±2°C				

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

\*NOCT: 1 irradiance 800W/m², a mbient temperature 20 °C, wind speed 1 m/s

Mechanical Characteristics

Solar Cells	Polycrystalline 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	Refer to the Information Box below
Packaging Configuration	30pcs / box, 840pcs / 40'HQ Container

Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.41%/K
Temperature Coefficient of Voc	β (Voc)	-0.32%/K
Temperature Coefficient of Isc	α (Isc)	0.050%/K

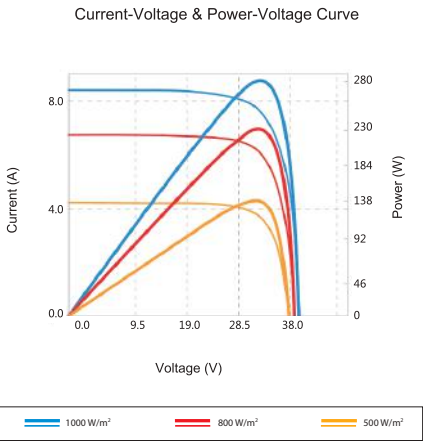
Warranty

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

Information Box

- Connectors:
- 1 PV-HT002-1 Max. Voltage =1500V Max. Current =30A; Manufacturer: Shanghai Aerospace Automobile Electromechanical Co.,Ltd.
  - 2 PV-HT001-1 Max. Voltage=1500V Max. Current=30A; Manufacturer: Shanghai Aerospace Automobile Electromechanical Co., Ltd.
  - 3 PV-KBT4/xy-UR PV-KST4/xy-UR Max. Voltage=1000V Max. Current=39A; Manufacturer: Multi-Contact AG Basel
  - 4 PV-JM601 Max. Voltage =1000V Max. Current =30A; Manufacturer: Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co., Ltd.
  - 5 PV-JM601A Max. Voltage =1000V Max. Current =30A; Manufacturer: Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co., Ltd.
  - 6 PV-KST4/xy-UR;PV-KBT4/xy-UR Max. Voltage =1000VMax. Current =39A(4,0mm2); Manufacturer: Staubi Electrical Connectors AG
  - 7 PV-KST4-EVO 2/XY\_UR (male); PV-KBT4-EVO 2/XY\_UR (female) Max. Voltage =1000V Max. Current =45A(4,0mm2); Manufacturer: Staubi Electrical Connectors AG
  - 8 H4CFC4DMS; H4CMC4DMS Max. Voltage =1000V Max. Current =35A; Manufacturer: Amphenol Technology (Shenzhen) Co.,Ltd.
  - 9 UTXCFabcde; UTXCMabcde Max. Voltage =1000V Max. Current =35A; Manufacturer: Amphenol Technology (Shenzhen) Co.,Ltd.
  - 10 TL-CABLE01S-F Max. Voltage =1000V Max. Current =30A; Manufacturer: Jiangsu Tonglin Electric Co., Ltd.
  - 11 TL-CABLE01S-FR Max. Voltage =1000V Max. Current =30A; Manufacturer: Jiangsu Tonglin Electric Co., Ltd.
  - 12 PV-JM608 Max. Voltage =1000V Max. Current =30A; Manufacturer: Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co., Ltd.
  - 13 PV-JM608-1 Max. Voltage =1000V Max. Current =30A; Manufacturer: Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co., Ltd.

I-V Curves



The module recycling should be carried out by the professional institutions at the the end of module life cycle