HT-SAAE

Reliable State-owned Enterprise Deliver Solar Power since 1960s

MILKY WAY

Solar Module

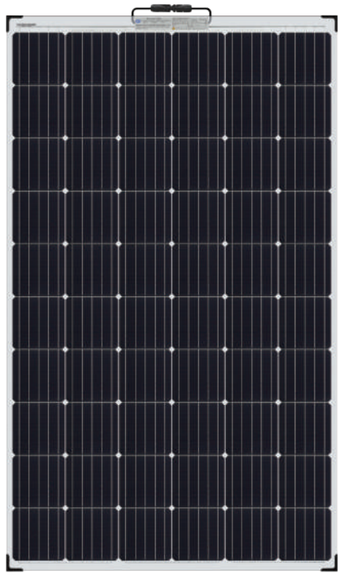
* V means 1500V module

HT60-156M(NDV)
HT60-156M(NDV)-F

290W-305W

[Bifacial Module]

Bifacial generating capacity ,
output 333W/339W/345W/350W(15% increase)



- Absorb the light by both surfaces of the cells
- Advanced surface treatment , lower surface reflection and 5BB cell design can reduce the series resistance and improve the module efficiency
- 18.5% Module Efficiency
- Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs
- PID resistant
- Microcrack resistant Double glass structure enhance reliability, triple EL tested of high quality control.
- N-Type mono technology, effectively increase the output power of unit area
- 0 Initial light induced degradation, effectively increase the overall power generation amount
- All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.
- TUV certification
- 10Yrs Products Warranty
- 30Yrs Warranty on power output
- Better temperature coefficient
- Entire module certified to with stand extreme wind (2400 Pa) and snow loads (5400 Pa)
- Better low irradiation response provides more effective working time
- 5W Positive tolerance 0/+5w guaranteed

Electrical Characteristics(STC)

Module	HT60-156M(NDV) / HT60-156M(NDV)-F			
Maximum Power at STC(Pmax)	290W	295W	300W	305W-
Open-Circuit Voltage(Voc)	39.0V	39.2V	39.4V	39.6V
Short-Circuit Current(Isc)	9.44A	9.49A	9.54A	9.58A
Optimum Operating Voltage (Vmp)	32.1V	32.4V	32.6V	32.9V
Optimum Operating Current(Imp)	9.04A	9.13A	9.22A	9.30A
Module Efficiency	17.6%	17.9%	18.2%	18.5%
Power Tolerance	0 ~ +5W			
Maximum System Voltage	1500V DC(IEC)			
Maximum Series Fuse Rating	15A			
Operating Temperature	-40 ℃ to + 85 ℃			

* Irradiance 1000W/m², module temperature 25, AM=1.5

NOCT

Module	HT60-156M(NDV) / HT60-156M(NDV)-F			
Maximum Power	213W	217W	220W	224W
Open Circuit Voltage （Voc）	36.0V	36.2V	36.4V	36.6V
Short-Circuit Current(Isc)	7.62A	7.66A	7.70A	7.74A
Optimum Operating Voltage (Vmp)	29.6V	29.8V	30.1V	30.3V
Maximum Circuit Current （Imp)	7.20A	7.27A	7.33A	7.40A
NOCT	43℃±2℃			

NOCT: Irradiance 800W/m², ambient temperature 20℃, wind speed 1 m/s

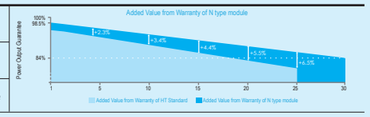
Mechanical Characteristics

Solar Cells	N type mono-crystalline cell 156.75*156.75mm 5BB
No.of Cells	60 (6 ×10)
Dimensions	1658mm×992mm×6.5mm / 1658mm×992mm×35mm
Weight	25kg/22.5kg(F)
Junction Box	IP67 , 3 diodes
Snow pressure	5400Pa
Wind pressure	2400Pa
Area	1.64m²
Light Transmittance	12.8%
Packaging Configuration	33pcs/box, 1584pcs/17.5m Trailer; 33pcs/box, 858pcs/40'HQ Container 26pcs/box, 1560pcs/17.5m Trailer; 30pcs/box, 840pcs/40'HQ Container（F）

Temperature Characteristics

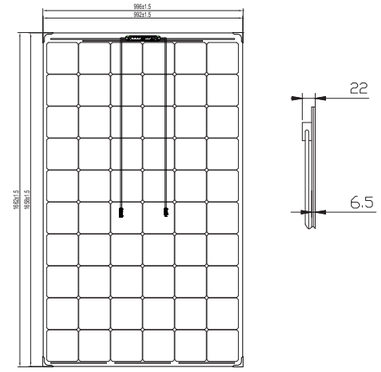
Temperature Coefficient of Pmax	γ (Pm)	-0.39%/K
Temperature Coefficient of Voc	β (Voc)	-0.28%/K
Temperature Coefficient of Isc	α (Isc)	0.045%/K

Warranty

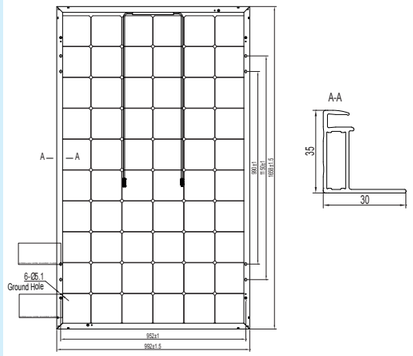
10-year product warranty	
30-year warranty on power output	
Specific information is referred to the product quality guarantee	

Information Box

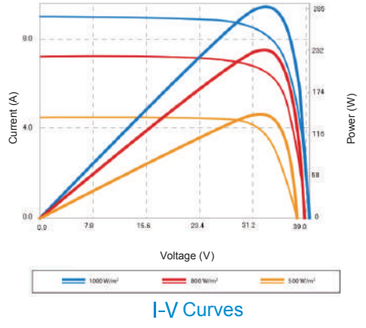
HT60-156M(NDV)



HT60-156M(NDV)-F



Current-Voltage & Power-Voltage Curve



I-V Curves

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

Factory : Lianyungang ShenZhou
New Energy Co., Ltd.

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