

HIGHWAY DG

HT48-156P(PD)
HT48-156P(PD)-F
HT48-156P(PDV)
HT48-156P(PDV)-F
205W-225W

* V means 1500V module

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IEC 61215:2016
IEC 61730:2016



Products Warranty



13.7%
Module Efficiency



Warranty on power output



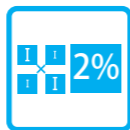
Advanced surface treatment, lower surface reflection and 5BB cell design can reduce the series resistance and improve the module efficiency



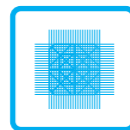
Microcrack resistant
Double glass structure enhance reliability, triple EL tested of high quality control.



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.



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



Strict quality control, meeting the highest international standards: ISO 9001, ISO14001 and OHSAS18001



PID resistant



Positive tolerance 0~+5w guaranteed

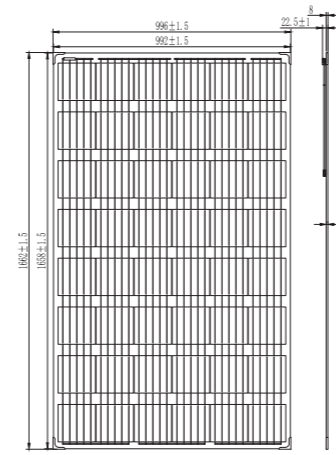
Comprehensive and first-rate certification system

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

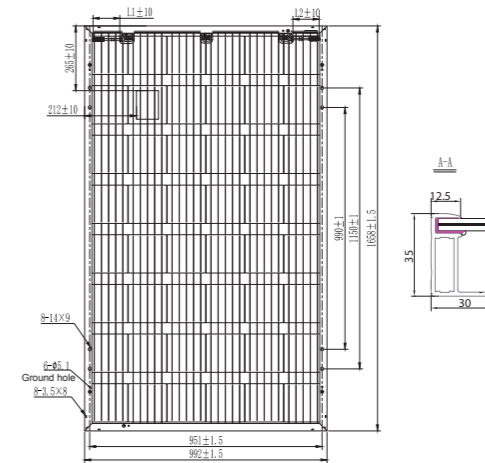


Engineering Drawing

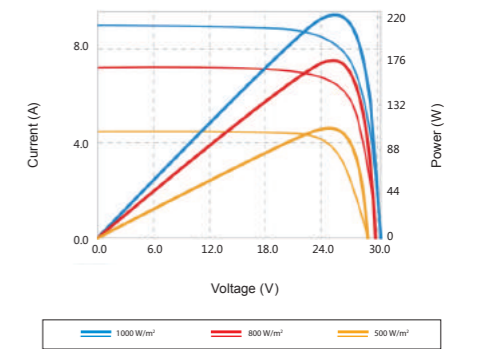
HT48-156P(PD) / HT48-156P(PDV)



HT48-156P(PD) -F/ HT48-156P(PDV)-F



Current-Voltage & Power-Voltage Curve



I-V Curves

Electrical Characteristics

Module	HT48-156P(PD)	HT48-156P(PD)-F	HT48-156P(PDV)	HT48-156P(PDV)-F
Maximum Power at STC(Pmax)	205W	210W	215W	220W
Open-Circuit Voltage(Voc)	30.0V	30.2V	30.4V	30.8V
Short-Circuit Current(Isc)	8.90A	8.97A	9.04A	9.36A
Optimum Operating Voltage (Vmp)	24.8V	25.2V	25.6V	24.7V
Optimum Operating Current(Imp)	8.29A	8.34A	8.41A	8.93A
Module Efficiency	12.5%	12.8%	13.1%	13.4%
Power Tolerance	0 ~ +5W			
Maximum System Voltage	1000V/1500V DC(IEC)			
Maximum Series Fuse Rating	15A			
Operating Temperature	-40 °C to +85 °C			

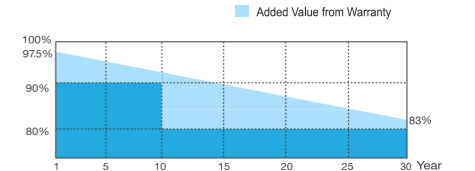
STC: Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

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)	0.05%/K

Warranty

- 10yrs 10-year product warranty
- 30yrs 30-year warranty on power output



NOCT

Module	HT48-156P(PD)	HT48-156P(PD)-F	HT48-156P(PDV)	HT48-156P(PDV)-F
Maximum Power	152W	155W	159W	163W
Open Circuit Voltage (Voc)	28.3V	28.4V	28.6V	29.0V
Short Circuit Current (Isc)	7.18A	7.24A	7.30A	7.56A
Maximum Power Voltage (Vmp)	23.4V	23.7V	24.1V	23.6V
Maximum Circuit Current (Imp)	6.49A	6.56A	6.60A	6.99A
NOCT	43 °C ± 2 °C			

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

Mechanical Characteristics

Solar Cells	Polycrystalline 156.75 × 156.75mm
No. of Cells	48 (6 × 8)
Dimensions	1658 × 992 × 6.5mm/1658 × 992 × 35mm
Weight	25kg/27kg(F)
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67
Cable	4mm² (IEC)
Packaging Configuration	40pcs/box, 858pcs/40'HQ Container 26pcs/box, 1560pcs/17.5m Trailer; 30pcs/box, 780pcs/40'HQ Container (F)

Information Box

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

Factory: Lianyungang ShenZhou New Energy Co., Ltd.