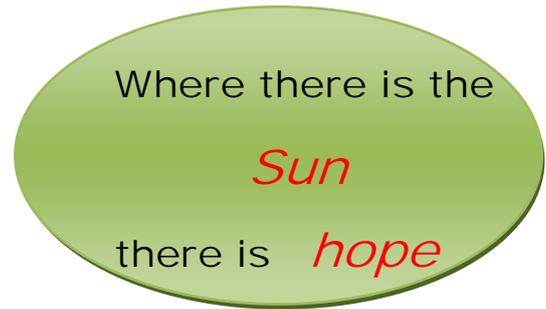


Solar Modules

- HBM(300W)19698p
- HBM(290W)19698p
- HBM(280W)19698p
- HBM(270W)19698p



Features

- 72poly crystalline cells connected in series
- High module conversion efficiency, through superior manufacturing technology
- Entire module certified to withstand wind loads (2400 Pascal) and snow loads (5400 Pascal)
- Anodized aluminum is mainly for improving corrosion resistance
- Highly transparent, low-iron, tempered glass and antireflective coating



Benefits

- 25 years transferrable power output warranty, 25 year/80%
- Product liability insurance
- Enhanced design for easy installation and long term reliability

Certifications

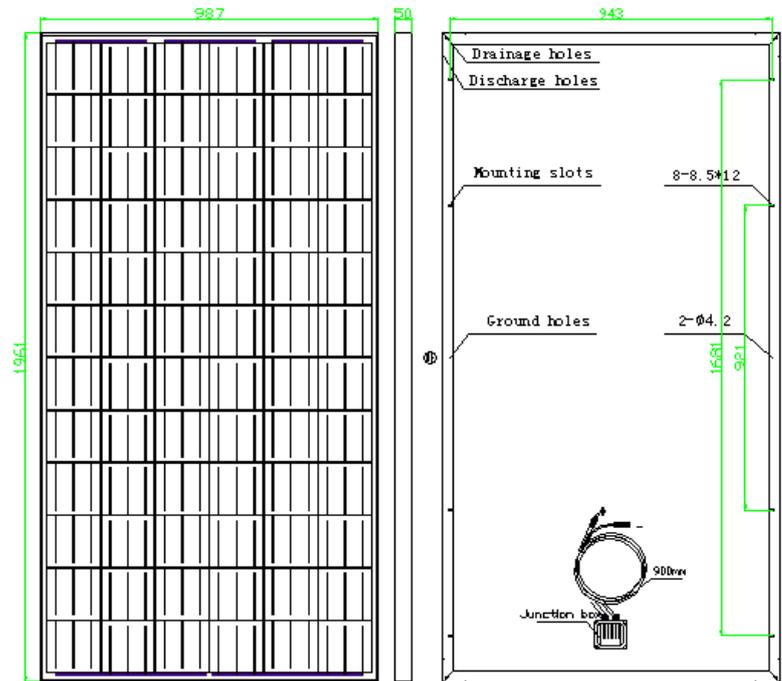
ISO9001 IEC61215 IEC61730 CE CEC

Electrical Specifications

Module type	HBM(300W)19698p	HBM(290W)19698p	HBM(280W)19698p	HBM(270W)19698p
Maximum power voltage(Vmp)	36.4 V	35.6 V	35.6 V	35.5 V
Maximum power current(Imp)	8.24 A	8.04 A	7.89 A	7.61 A
Short circuit current(Isc)	8.66 A	8.46A	8.38 A	8.24 A
Open circuit voltage(Voc)	45 .0V	44.6 V	44.1 V	43.9 V
Peak power(Pmax)	300W	290W	280W	270W
Cell Efficiency	17.65%	17.06	16.47%	15.89%
Module Efficiency	15.50%	14.98%	14.47%	13.95%
Series fuse rating(A)	15A			
Normal Operating Cell Temperature	47±2℃			
Maximum system voltage	DC 1000V			
Number of bypass diode	3			

Mechanical Specifications

Cell type	Polycrystalline 156*156mm
No. of cells	72 cells in series
Weight	25kg
Dimensions	1961*987*50mm
Max Load	5400Pascals
Front Glass	1955*981*4.0mm
Junction box	IP65 rated Cross section 4.0mm ²
Output cables	Length(+/-) 900mm MC plug type

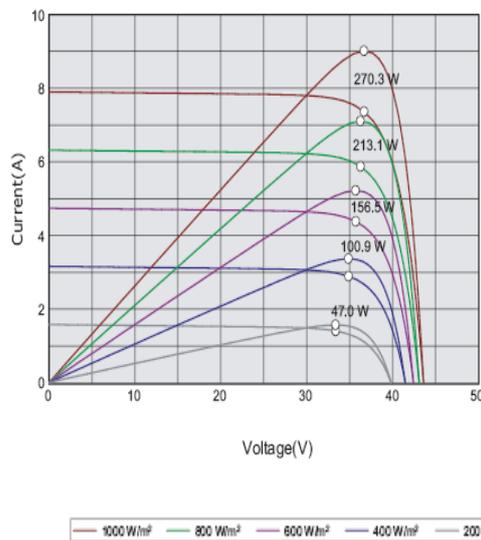


Temperature Coefficient

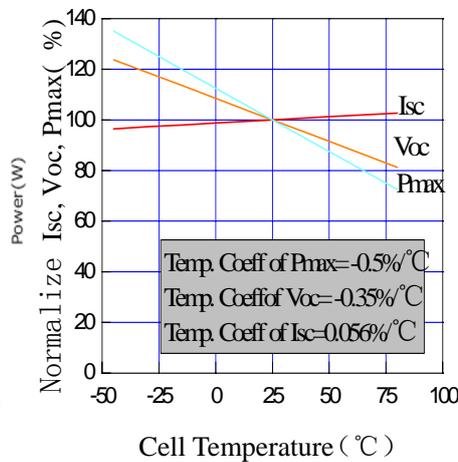
Temp. Coeff. of Isc	0.056%/°C
Temp. Coeff. of Voc	-0.35%/°C
Temp. Coeff. of Pmax	-0.5%/°C
Power Tolerance	±3%

Electrical Characteristics

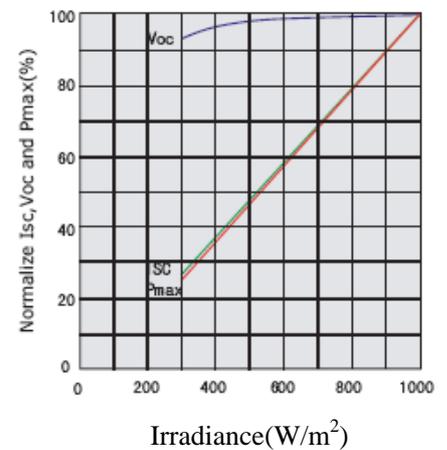
Electrical performance
(cell temperature:25 °C)



Temperature dependence of Isc, Voc and Pmax



Irradiance dependence of Isc, Voc and Pmax (Cell Temp:25 °C)



Note: the specifications are obtained under the Standard Test Conditions (STCs): 1000w/m² solar irradiance, 1.5 Air Mass, and cell temperature of 25°C.

Please contact jjshubu@hopesolar.com.cn for technical support. The parameters are for reference only, and are subject to change without notice or obligation.