

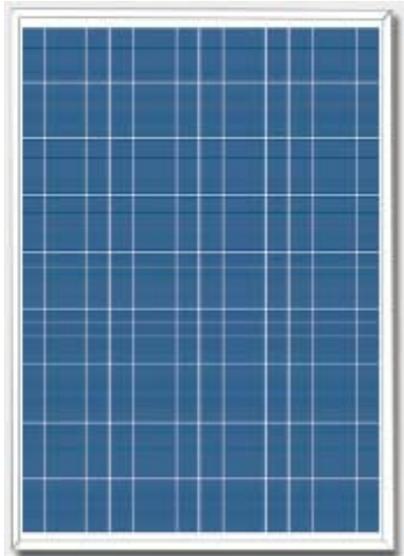


*Solar Modules*  
 HBM(100W)10166p  
 HBM(95W)10166p  
 HBM(90W)10166p  
 HBM(85W)10166p

Where there is the  
*Sun*  
 there is *hope*

**Features**

- 36 poly crystalline cells connected in series
- High module conversion efficiency, through superior manufacturing technology
- Entire module certified to withstand wind loads (2400 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**

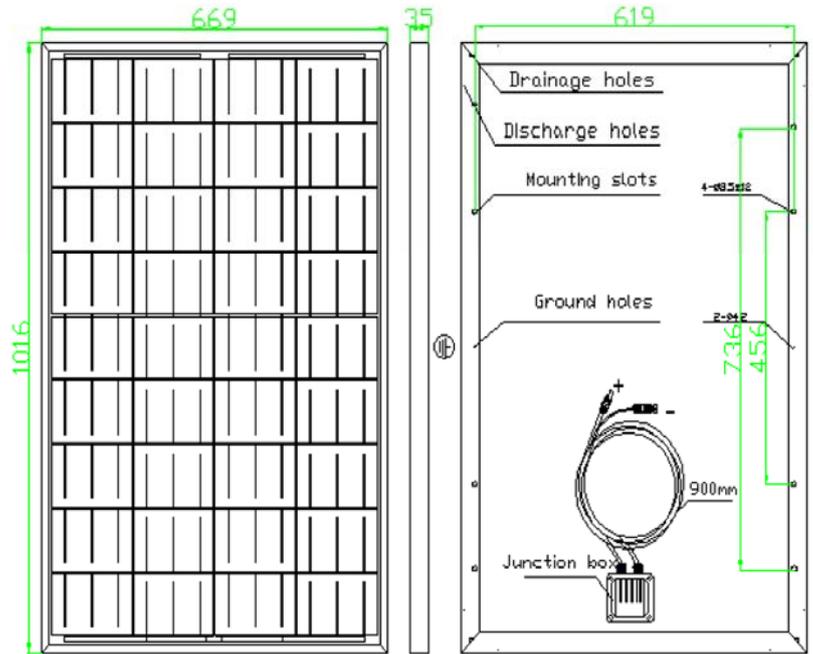
ISO9001 IEC61215 IEC61730 CE CEC

**Electrical Specifications**

Module type	HBM(100W)10166p	HBM(95W)10166p	HBM(90W)10166p	HBM(85W)10166p
Maximum power voltage(Vmp)	17.3 V	17.3 V	17.2 V	17.2 V
Maximum power current(Imp)	5.79 A	5.5 A	5.3 A	5.0A
Short circuit current(Isc)	6.03 A	5.95 A	5.63 A	5.32 A
Open circuit voltage(Voc)	21.8 V	21.8 V	21.86V	21.86V
Peak power(Pmax)	100W	95W	90W	85W
Cell Efficiency	17.7%	16.8%	15.9%	15.0%
Module Efficiency	14.71%	13.98%	13.24%	12.5%
Series fuse rating(A)	10A			
Normal Operating Cell Temperature	47±2℃			
Maximum system voltage	DC 750V			
Number of bypass diode	2			

## Mechanical Specifications

Cell type	Poly-crystalline 156*104mm
Number of cells	36 cells in series
Weight	9.1kg
Dimensions	1016*669*35mm
Max Load	2400Pascals
Glass Size	1010*663*3.2mm
Junction box	IP65 rated
	Cross section 4.0mm <sup>2</sup>
Output cables	Length(+/-) 900mm
	MC plug type

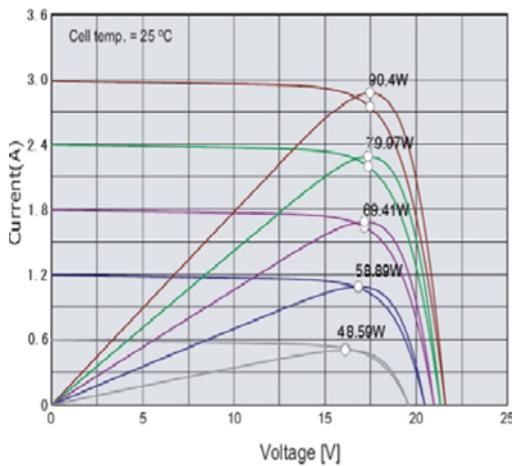


## Temperature Coefficient

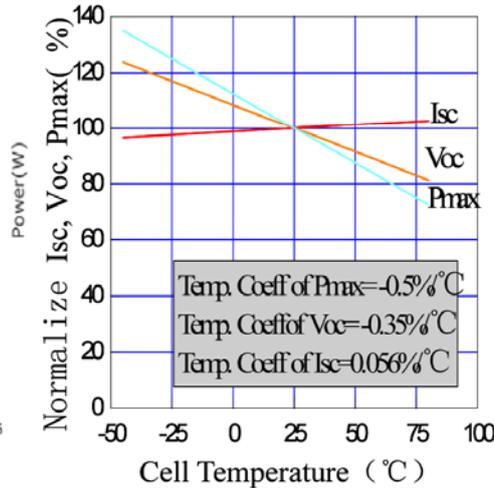
Temp. Coeff. of Isc	0.056%/°C
Temp. Coeff. of Voc	-0.35%/°C
Temp. Coeff. of Pmax	-0.5%/°C
Power Tolerance	±3%

## Electrical Characteristics

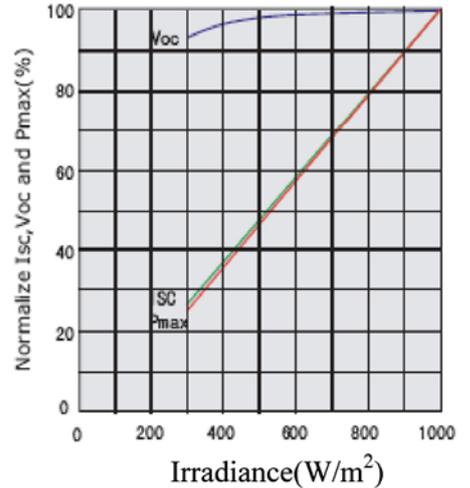
Electrical performance  
(cell temperature:25 °C)



Temperature dependence of Isc,  
Voc and Pmax



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



— 1000 W/m<sup>2</sup> — 800 W/m<sup>2</sup> — 600 W/m<sup>2</sup> — 400 W/m<sup>2</sup> — 200 W/m<sup>2</sup>

Note: the specifications are obtained under the Standard Test Conditions (STCs): 1000w/m<sup>2</sup> solar irradiance, 1.5 Air Mass, and cell temperature of 25°C.

Please contact [shichangbu@hopesolar.com.cn](mailto:shichangbu@hopesolar.com.cn) for technical support. The parameters are for reference only, and are subject to change without notice or obligation.