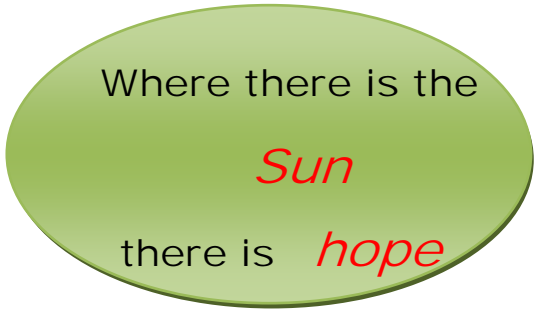


### Solar Modules

HBM(160W)14866m  
 HBM(150W) 14866m  
 HBM(145W) 14866m  
 HBM(140W) 14866m



### Features

- 36 mono 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

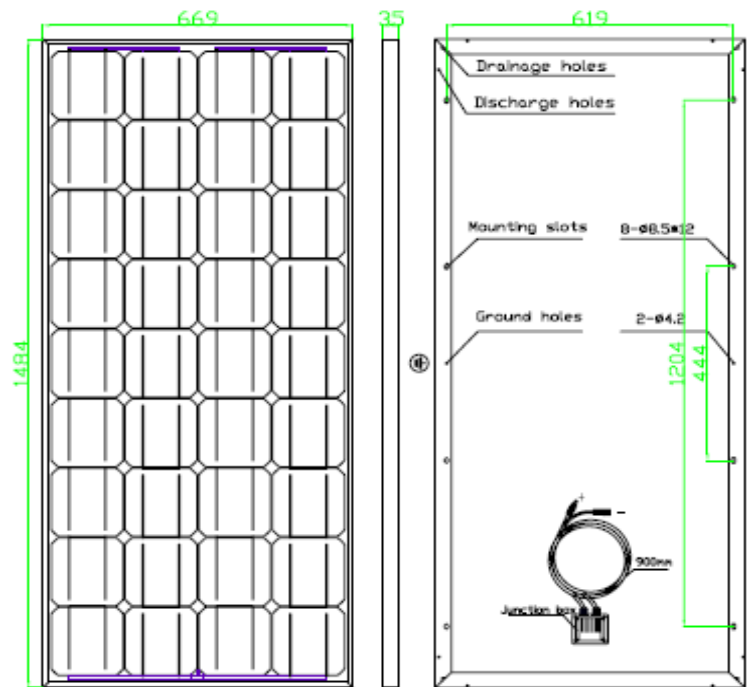
Module type	HBM(160W)14866m	HBM(150W)14866m	HBM(145W)14866m	HBM(140W)14866m
Maximum power voltage(Vmp)	18.7 V	18.6 V	18.6 V	18.4V
Maximum power current(Imp)	8.56 A	8.16 A	7.79 A	7.61A
Short circuit current(Isc)	9.15 A	8.48 A	8.3 A	8.15A
Open circuit voltage(Voc)	23.1 V	22.9 V	22.7 V	22.6V
Peak power(Pmax)	160W	150W	145W	140W
Cell Efficiency	18.8%	18.1%	17.4%	16.8%
Module Efficiency	16.12%	15.11%	14.60%	14.02%
Series fuse rating(A)	11A			
Normal Operating Cell Temperature	47±2℃			
Maximum system voltage	DC 1000V			
Number of bypass diode	2			

## Mechanical Specifications

Cell type	Monocrystalline 156*156mm
No. of cells	36 cells in series
Weight	13.5kg
Dimensions	1484*669*35mm
Max Load	2400Pascals
Glass Size	1478*663*3.2mm
Junction box	IP65 rated
	Cross section 4.0mm <sup>2</sup>
Output cables	Length(+/-) 900mm
	MC plug type

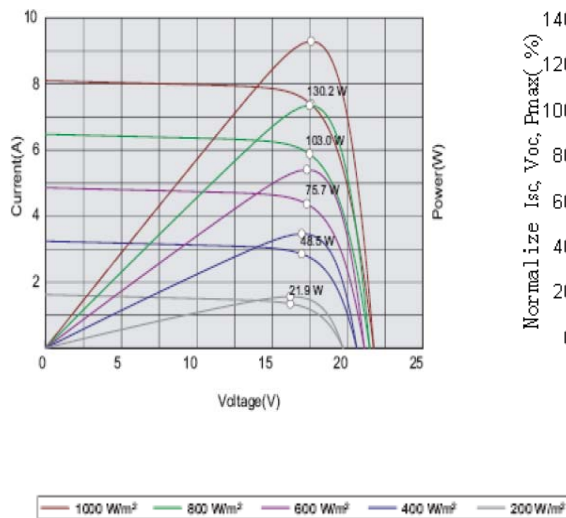
## Temperature Coefficient

Temp. Coeff. of Isc	0.017%/°C
Temp. Coeff. of Voc	-0.35%/°C
Temp. Coeff. of Pmax	-0.5%/°C
Power Tolerance	±3%

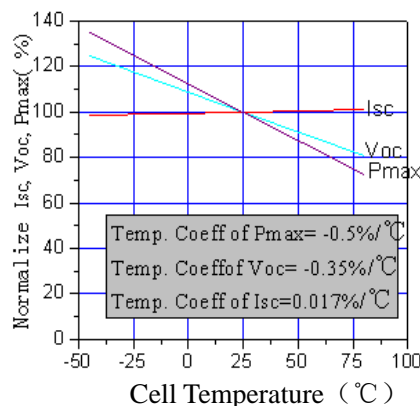


## Electrical Characteristics

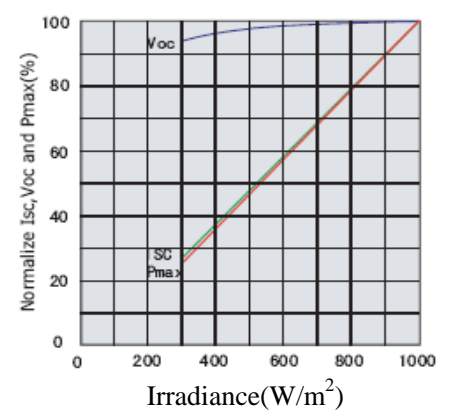
Electrical performance  
(cell temperature:25 °C)



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/m<sup>2</sup> solar irradiance, 1.5 Air Mass, and cell temperature of 25°C.

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