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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Sun Pacific Power Corp.  
BSM 300M -72 series  
BSM310M-72**

Also available on the web at  
[EnergyPal.com/sun-pacific-power-corp-solar-panels/bsm310m-72](http://EnergyPal.com/sun-pacific-power-corp-solar-panels/bsm310m-72)



# Sun Pacific Power

## BSM 300M-72 series

### Mono Solar Module

Power Range 290W-320W



High Module Conversion Efficiencies



Easy Installaton and Handling for Various Applicatons



Mechanical Load Capability of up to 5400 Pa



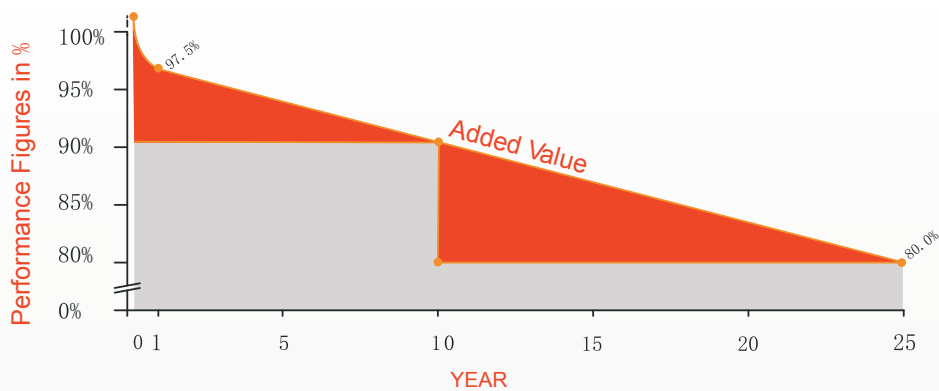
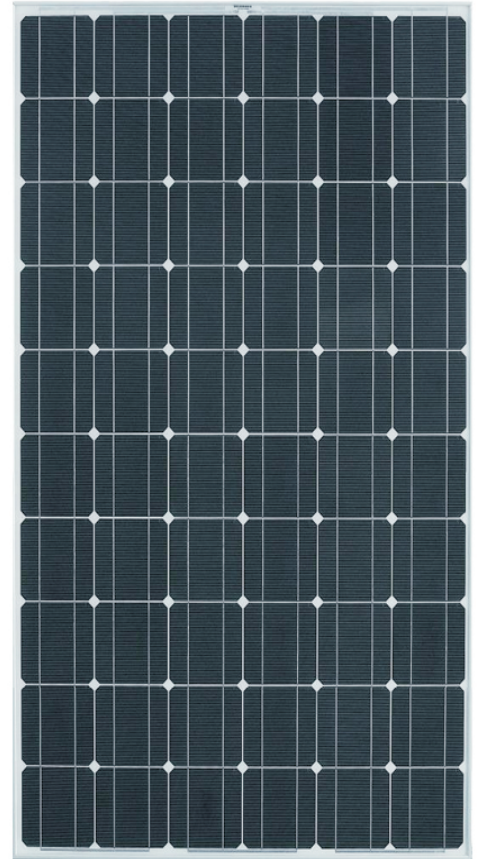
Conforms with IEC 61215 :2005 ,  
IEC 61730 : 2004 , UL 1703 PV Standards



ISO9001 , OHSAS18001 , ISO14001 Certificated



Applicaton Class A, Safety Class II, Fire Rating C



10-year

material & workmanship

25-year

linear power output

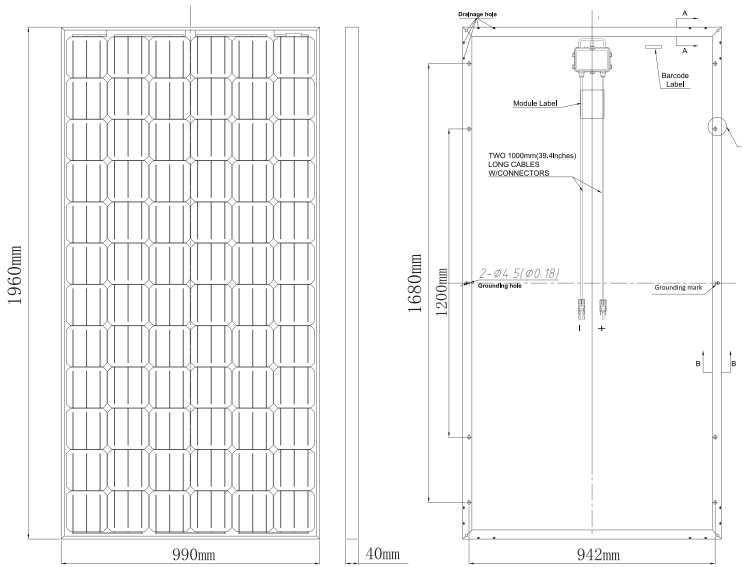


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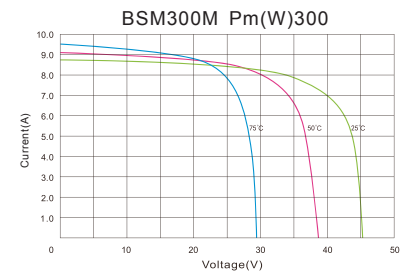
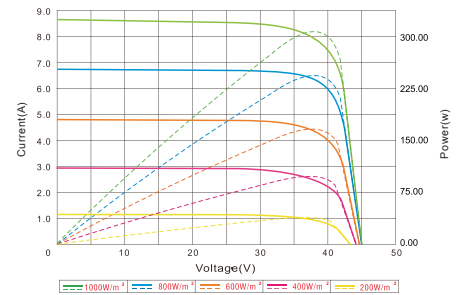
### Dimensions



Drawing only for reference

### I-V Curves

Output under different radiation and temperature conditions  
Electrical performance (Cell Temperature : 25°C )



Electrical Characteristics	STC	BSM290M-72	BSM295M-72	BSM300M-72	BSM305M-72
Maximum Power (Pmax)		290W	295W	300W	305W
Power Tolerance		0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency		14.96%	15.22%	15.48%	15.73%
Maximum Power Current (Imp)		7.89A	7.99A	8.09A	8.21A
Maximum Power Voltage (Vmp)		36.76V	36.93V	37.09V	37.15V
Short Circuit Current (Isc)		8.52A	8.56A	8.60A	8.65A
Open Circuit Voltage (Voc)		45.67V	45.78V	45.85V	45.96V

Values at Standard Test Conditions STC(Air Mass AM 1.5,Irradiance 1000W/m², Cell Temperature 25°C)

Electrical Characteristics	STC	BSM310M-72	BSM315M-72	BSM320M-72
Maximum Power (Pmax)		310W	315W	320W
Power Tolerance		0~+5W	0~+5W	0~+5W
Module Efficiency		15.99%	16.256%	16.51%
Maximum Power Current (Imp)		8.33A	8.44A	8.55A
Maximum Power Voltage (Vmp)		37.22V	37.33V	37.43V
Short Circuit Current (Isc)		8.71A	8.78A	8.81A
Open Circuit Voltage (Voc)		46.02V	46.31V	46.56V

Values at Standard Test Conditions STC(Air Mass AM 1.5,Irradiance 1000W/m², Cell Temperature 25°C)

### Mechanical Characteristics

Cell Type	Monocrystalline 156x156mm, 72(6x12) pcs in series
Glass	High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP65/IP67 rated, with bypass diodes
Dimension	1960 x 990 x 40 mm
Output Cable	4mm² (EU) / 12 AWG (US), 1000 mm
Weight	26.15Kg
Installation Hole Location	See Drawing Above
No. of Bypass Diodes	6

### Characteristics

Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.40%/°C
Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C

### Packing Information

Container	20'GP	40'GP	40'HQ
Pallets per Container	12	28	28
Pieces per Container	220	540	580

CAUTION: All rights reserved. Design and specification subject to change without prior notice.

### Maximum Ratings

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1000VDC (EU) / 600VDC (US)
Maximum Series Fuse Rating	20A (EU) / 20A (US)