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# **EnergyPal**

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

**PolyCrown Solar Tech  
Half cell NS380-400S6-144  
NS-390S6-144**

Also available on the web at  
[EnergyPal.com/polycrown-solar-tech-solar-panels/ns-390s6-144](http://EnergyPal.com/polycrown-solar-tech-solar-panels/ns-390s6-144)

# Photovoltaic Module

## Monocrystalline144

### KEY FEATURES



High module efficiency through superior manufacturing technology



No power loss thanks to improved temperature co-efficient caused by 5 busbar solar cell



Strictly control the micro-crack of solar cells and the other non visible defect of internal modules



Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



Manufactured according to and certified international I Quality and Environment Management System



Using advanced low reflection and high light transmission glass and cell sheet surface cutting technology, in the weak light environment can also play a good performance.



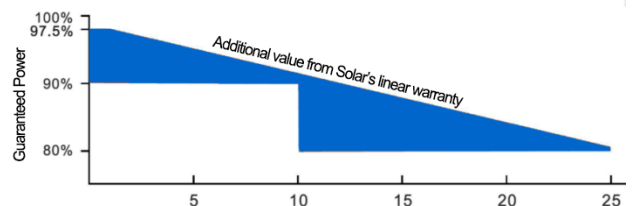
### Certificates

- IEC61215, IEC61730, CQC, CE, TUV
- ISO9001:2008
- ISO14001:2004
- BSOHSAS18001:2007



### Warranties

- 10 years product warranty
- 25 years power warranty



[www.policrown-solar.com](http://www.policrown-solar.com)

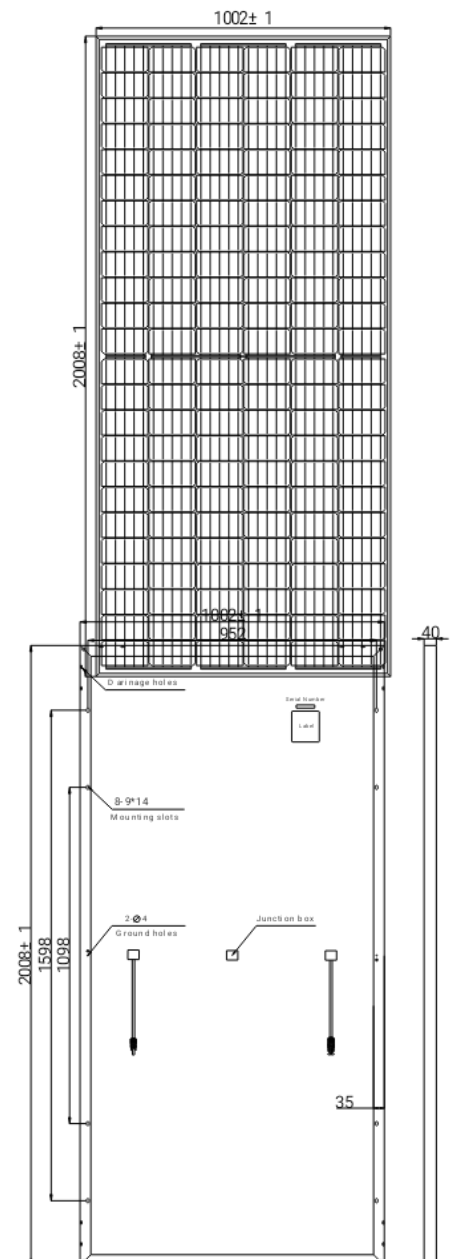
Maximum Power at STC(Pmax)	380W	385W	390W	395W	400W
Optimum Operating Voltage (Vmp)	40.03V	40.17V	40.33V	40.48V	40.63V
Optimum Operating Current (Imp)	9.493A	9.585A	9.671A	9.758A	9.845A
Open-Circuit Voltage (Voc)	47.99V	48.19V	48.32V	48.46V	48.61V
Short-Circuit Current (Isc)	10.217A	10.309A	10.415A	10.518A	10.686A
Solar Cell Efficiency (%)	21.91	22.20	22.49	22.77	23.05
Solar Module Efficiency (%)	18.88	19.13	19.38	19.63	19.88
Operating Temperature	-40to85°C				
Maximum System Voltage	DC1000				
Maximum Series Fuse Rating	15A				
Power Tolerance	0~+3%				
STC:Irradiance 1000W/m <sup>2</sup> ,Modules Temperature 25°C,AM=1.5					

## Electrical Characteristics

## Engineering Drawings

Nominal Operating Cell Temperature (NOCT)	45°C+/-2°C
Temperature Coefficient of Pmax	-0.39%/°C
Temperature Coefficient of VOC	-0.29%/°C
Temperature Coefficient of ISC	+0.05%/°C
Solar cell	Mono158.75*79.375mm
No.of cells	144 (6*12+6*12)
Dimensions	2008mm*1002mm*40mm
Weight	25kg
Front glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction box	PV-67
Connector	Plug and socket
Output cables	PV 4.0mm <sup>2</sup>
1*20'	260pcs
1*40'	572pcs
1*40'HQ	638pcs
13.6	676pcs
17.5	884pcs

## Temperature Coefficient and Mechanical Characteristics



## IV-Curves

