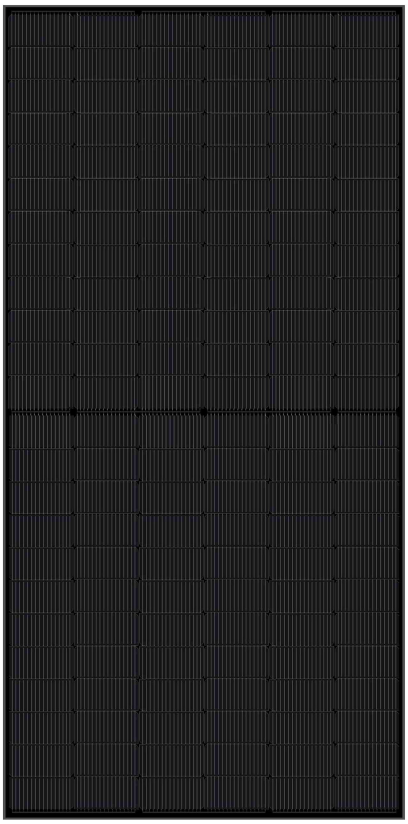
Polycrown Solar

# Photovoltaic Module
# Monocrystalline144

## KEY FEATURES



High module efficiency through superior manufacturing technology

Due to the use of multi-busbar solar cells, the temperature coefficient has been improved, resulting in no power loss.

EL

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

5400 Pa

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

IEC 1500V

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

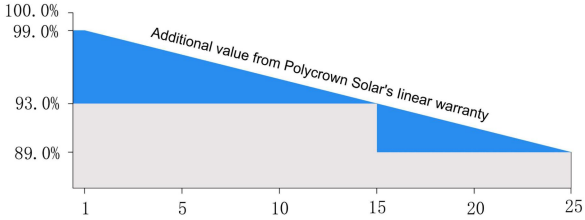
Using advanced low reflection and high light transmission glass and cell sheet surface cutting technology, in the weak light environment can also play a good performance.

## Certificates

- IEC61215,IEC61730,CQC、CE、TUV
- ISO9001:2015
- ISO14001:2015
- ISO45001:2018

## Warranties

- 15 years product warranty
- 25 years power warranty

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# Electrical Characteristics

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| Model | NS-430MH-144 | NS-440MH-144 | NS-450MH-144 | NS-460MH-144 |
|---|---|---|---|---|
| Maximum Power at STC(Pmax) | 430W | 440W | 450W | 460W |
| Optimum Operating Voltage (Vmp) | 41.11V | 41.51V | 41.91V | 42.31V |
| Optimum Operating Current (Imp) | 10.46A | 10.60A | 10.74A | 10.88A |
| Open-Circuit Voltage (Voc) | 48.78V | 49.18V | 49.58V | 49.98V |
| Short-Circuit Current (Isc) | 11.30A | 11.47A | 11.63A | 11.79A |
| Solar Cell Efficiency (%) | 21.99 | 22.17 | 23.02 | 23.53 |
| Solar Module Efficiency (%) | 19.72 | 20.18 | 20.64 | 21.10 |
| Operating Temperature | -40to85℃ | | | |
| Maximum System Voltage | DC1500V | | | |
| Maximum Series Fuse Rating | 20A | | | |
| Power Tolerance | 0~+3% | | | |
| STC:Irradiance 1000W/㎡,Modules Temperature 25℃,AM=1.5 | | | | |

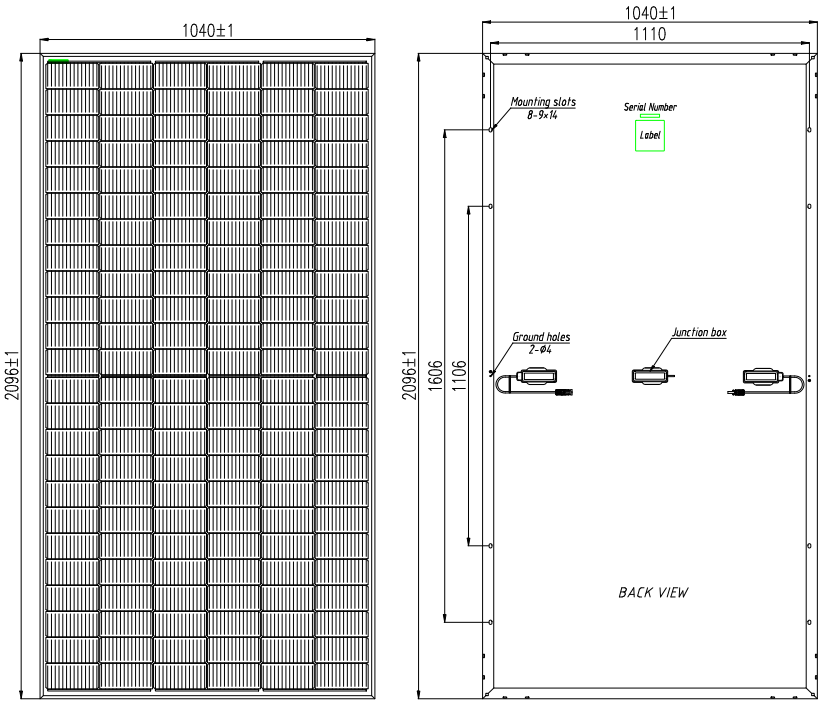
# Temperature Coefficient

| | |
|---|---|
| NOCT | 45℃±2℃ |
| Temperature Coefficient of Pmax | -0.29%/℃ |
| Temperature Coefficient of VOC | -0.25%/℃ |
| Temperature Coefficient of ISC | 0.045%/℃ |

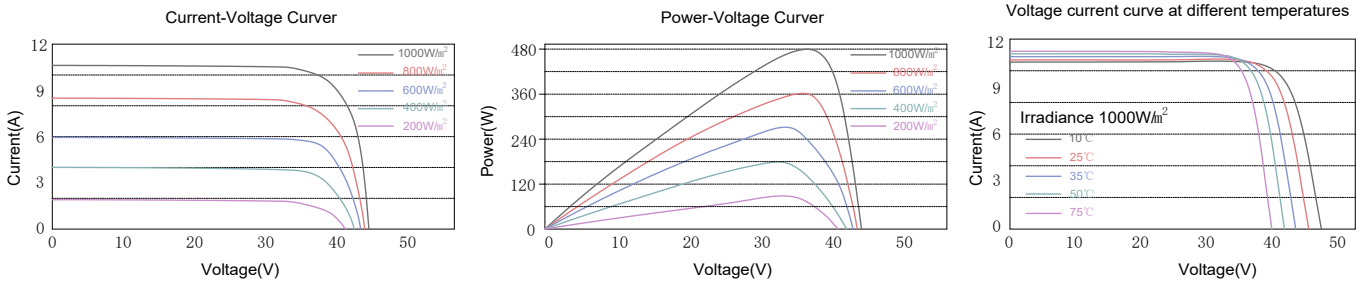
# Mechanical Characteristics

| | |
|---|---|
| No.of cells | 144(6×12+6×12) |
| Dimensions | 2096mm*1040mm*30mm |
| Weight | 24kg ±3% |
| Front glass | 3.2mm tempered glass |
| Frame | Anodized aluminium alloy |
| Junction box | IP68, three diodes |
| Connector | Plug and socket |
| Output cables | PV 4.0mm² |
| 1*40'HQ | 37pcs/Pallet,814pcs/ 40'HQ; |

# Engineering Drawings




# IV-Curves





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