

## 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



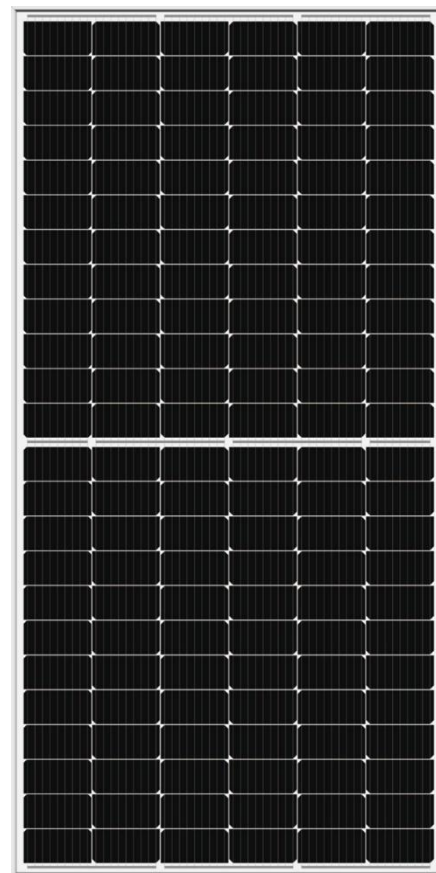
Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



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.



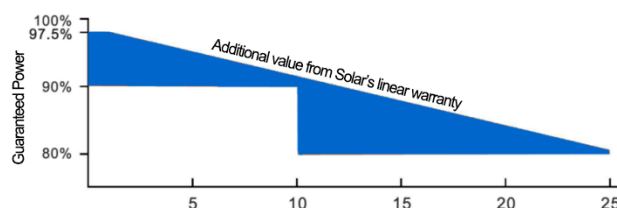
### Certificates

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



### Warranties

- 10 years product warranty
- 25 years power warranty

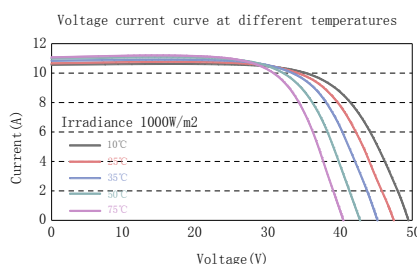
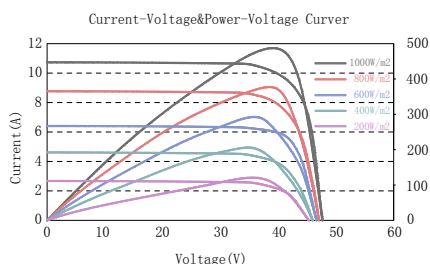


## Electrical Characteristics

Model	NS-425S6-24	NS-430S6-24	NS-435S6-24	NS-440S6-24	NS-450S6-24
Maximum Power at STC(Pmax)	425W	430W	435W	440W	450W
Optimum Operating Voltage (Vmp)	40.4V	40.6V	40.8V	41.0V	41.4V
Optimum Operating Current (Imp)	10.52A	10.60A	10.67A	10.74A	10.87A
Open-Circuit Voltage (Voc)	48.2V	48.4V	48.6V	48.8V	49.3V
Short-Circuit Current (Isc)	11.25A	11.32A	11.40A	11.47A	11.61A
Solar Cell Efficiency (%)	21.95	22.21	22.47	22.73	23.02
Solar Module Efficiency (%)	19.50	19.73	19.96	20.18	20.64
Operating Temperature	-40to85℃				
Maximum System Voltage	DC1000				
Maximum Series Fuse Rating	15A				
Power Tolerance	0~+3%				
STC:Irradiance 1000W/m²,Modules Temperature 25℃,AM=1.5					

## Temperature Coefficient and Mechanical Characteristics

Nominal Operating Cell Temperature (NOCT)	45℃+/-2℃
Temperature Coefficient of Pmax	-0.39%/℃
Temperature Coefficient of VOC	-0.29%/℃
Temperature Coefficient of ISC	+0.05%/℃
Solar cell	Mono166*83mm
No.of cells	144 (6*12+6*12)
Dimensions	2096mm*1040mm*40mm
Weight	28kg
Front glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction box	PV--*****
Connector	Plug and socket
Output cables	PV 4.0mm²
1*20'	260pcs
1*40'	572pcs
1*40'HQ	655pcs
13.6	676pcs
17.5	884pcs



## Engineering Drawings

