



- Solar cell: High efficiency crystalline solar cel. Even if under the weak light, the solar module can produce maximum power output.
- Tempered glass: Anti-reflecting coating and high transmission rate glass increasing the power Output and mechanical strength of solar module.
- EVE and TPT: Using high quality EVA and TPT to prevent destroying and water.
- All frames: Without screw scormer connection. 8 holes on the frame can be installed easily.
- Junction box: Multi-functional and water-proof junction box.
- Good performance of preventing from atrocious weather such as wind and hails.
- Resisting moisture and etching effectively, not effected by geology.
- Certificates issued by international authorities: ISO Quality Management system. CE, TUV (IEC61215 and IEC61730).
- Limited power degradatoin of Each module caused by PID effect is quaranteed under 60°C/85% RH Conditio for mass production.
- High salt and ammonia resistance certified by TUV NORD



### Mechanical characteristics:

Cell size (mm)	156X156
No. of cells	72(6X12)
Module size (mm)	1956 X 992 X 40
Module weight (KG)	21

# NBJ-320M

JINSHI SOLAR

## 72 CELLS

MONOCRYSTALLINE MODULE

## 320W

OUTPUT POWER

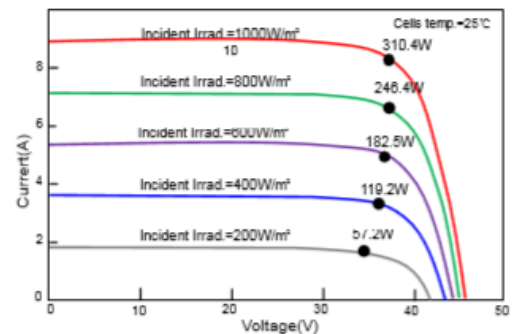
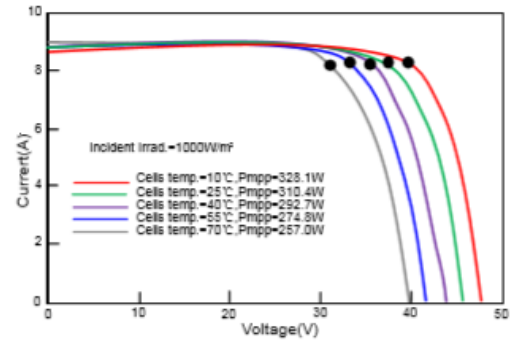
## 16.5%

MAXIMUM EFFICIENCY

## 0~+3%

POWER OUTPUT GUARANTEE

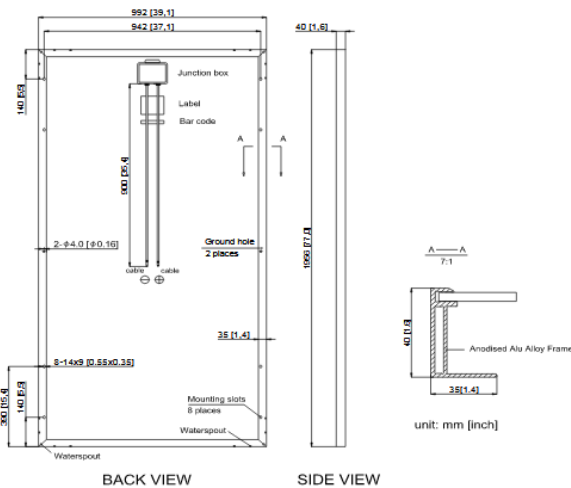
**12 year product warranty**  
**25 year linear power warranty**



## Construction materials:

Front glass	3.2 mm, Low Iron, Tempered Glass
Frame	Anodized Aluminium, Alloy type 6063-T5
Junction box	IP 65 rated (black)
Output cables	TUV 1x4mm <sup>2</sup> , length: 900mm
Connector	PV-ST101 (IP67)
Encapsulation material	EVA(0.45 0.03mm thickness)
Back foil	White TPT (0.32 0.03mm thickness)
Fixing adhesive	Silicone Sealant (White)

## Module diagram:



## Temperature coefficient:

Power tolerance	0~+3%
Temperature coefficient of Pmax	(-0.41±0.05)%/°C
Temperature coefficient of Voc	(-0.34±0.02)%/°C
Temperature coefficient of Isc	(0.05±0.01) %/°C
Nominal temperature	(47±2) °C

## Operating conditions:

Max. system voltage	1500DVC (IEC)
Max. system fuse rating (A)	15
Operating temperature (°C)	-40~85
Max. static load, front (pa)	5400
Max. static load, back (pa)	2400

## Electrical parameters at Standard Test Conditions (STC)

Module type	NBJ-300M	NBJ-305M	NBJ-310M	NBJ-315M	NBJ-320M	NBJ-325M	NBJ-330M
Rated maximum power (Pmax/W)	<b>300</b>	305	<b>310</b>	315	<b>320</b>	325	<b>330</b>
Maximum power voltage (Vmp/V)	<b>36.77</b>	36.93	<b>37.04</b>	37.15	<b>37.55</b>	37.65	<b>37.94</b>
Open-circuit voltage (Voc/V)	<b>45.20</b>	45.40	<b>45.50</b>	45.70	<b>45.80</b>	45.90	<b>46.00</b>
Maximum power current (Imp/A)	<b>8.16</b>	8.26	<b>8.37</b>	8.48	<b>8.53</b>	8.64	<b>8.70</b>
Short-circuit current (Isc/A)	<b>8.71</b>	8.78	<b>8.85</b>	8.92	<b>8.99</b>	9.05	<b>9.18</b>
Module efficiency (%)	<b>15.5</b>	15.7	<b>16.0</b>	16.2	<b>16.5</b>	16.7	<b>17.0</b>

STC: Irridance 100W/M<sup>2</sup> Module temperature: 25°C AM=1.5

## Electrical parameters at Nomianl Operating Cell Temperature (NOCT)

Module type	NBJ-300M	NBJ-305M	NBJ-310M	NBJ-315M	NBJ-320M	NBJ-325M	NBJ-330M
Rated maximum power (Pmax/W)	<b>219.60</b>	223.26	<b>226.92</b>	230.58	<b>234.24</b>	238.50	<b>242.68</b>
Maximum power voltage (Vmp/V)	<b>33.94</b>	34.03	<b>34.07</b>	34.16	<b>34.25</b>	34.52	<b>34.68</b>
Open-circuit voltage (Voc/V)	<b>42.07</b>	42.18	<b>42.23</b>	42.48	<b>42.72</b>	43.06	<b>43.21</b>
Maximum power current (Imp/A)	<b>6.47</b>	6.56	<b>6.66</b>	6.75	<b>6.84</b>	6.91	<b>7.00</b>
Short-circuit current (Isc/A)	<b>6.97</b>	7.02	<b>7.07</b>	7.13	<b>7.15</b>	7.18	<b>7.20</b>

Under Nominal Operating Cell Temperature (NOCT), Irridance of 800 W/m<sup>2</sup>, spectrum AM=1.5, ambient temperature 20°C, wind speed 1m/s