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# **EnergyPal**

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

**Ningbo Jinshi Solar Electrical Science and  
Technology Co., Ltd.**

**NBJ-280M-60**

**NBJ-260M**

Also available on the web at  
[EnergyPal.com/ningbo-jinshi-solar-electrical-science-and-technology-co-ltd-solar-panels/nbj-260m](http://EnergyPal.com/ningbo-jinshi-solar-electrical-science-and-technology-co-ltd-solar-panels/nbj-260m)



- Solar cell: High efficiency crystalline solar cell. 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.
- EVA and TPT: Using high quality EVA and TPT to prevent destroying and water.
- All frames: Without screws corner 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 degradation of Eagle module caused by PID effect is guaranteed under 60°C/85% RH condition for mass production.
- High salt and ammonia resistance certified by TUVNORD



### Mechanical Characteristics:

Cell Size (mm)	156X156
No. of cells	60(6X10)
Module Size (mm)	1650X992X35
Module Weight (KG)	17.6

## NBJ-280M

JINSHI SOLAR MODEL

## 60 CELLS

MONOCRYSTALLINE MODULE

## 250-280W

POWER OUTPUT RANGE

## 17.1%

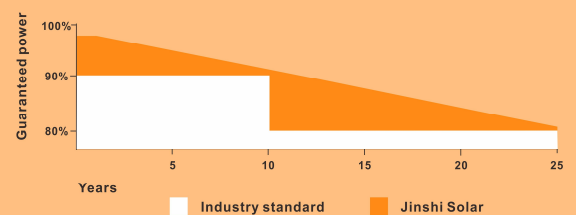
MAXIMUM EFFICIENCY

## 0~+3%

POWER OUTPUT GUARANTEE

### LINEAR PERFORMANCE WARRANTY

12 Year product warranty • 25 Year linear power warranty



### Packaging Specifications:

Number of modules per pallet	30
Number of pallets per 40' container	28
Packaging box dimensions (cm)	168x110x112
Box Weight (KG)	565

This publication summarizes product warranty and specification, which is subject to change without notice.

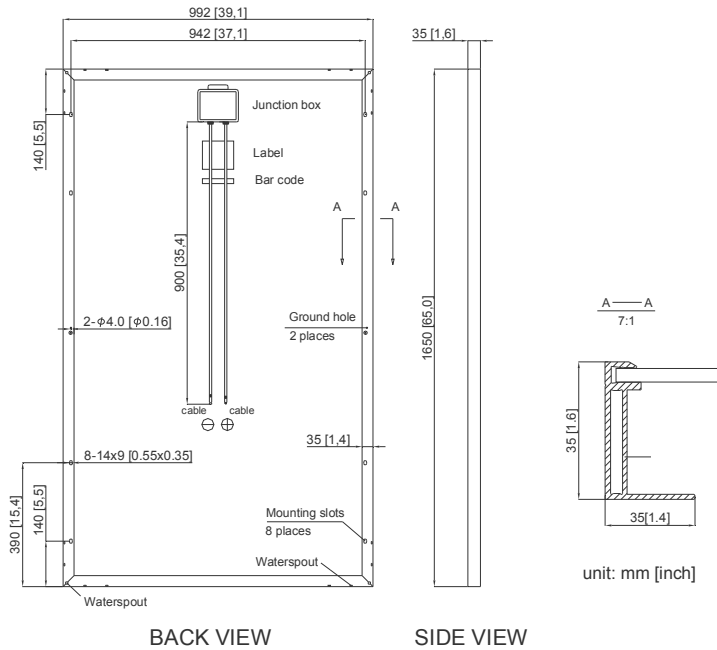


**Construction Materials:**

Front Glass	3.2mm, Low Iron, Tempered Glass
Frame	Anodized Aluminum 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
NOTC(°C)	(47±2) °C

**Operating Conditions:**

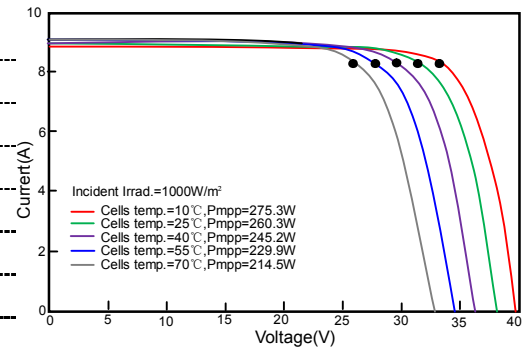
Max. system voltage	1500DVC (IEC)
Max. system fuse rating (A)	15
Operating temperature (°C)	-40~85
Max. static load, front (e.g., snow) pa	5400
Max. static load, back (e.g., wind) pa	2400

**Electrical Parameters at Standard Test Conditions (STC)**

Module type	NBJ-250M	NBJ-255M	NBJ-260M	NBJ-265M	NBJ-270M	NBJ-275M	NBJ-280M
Rated Maximum Power (Pmax/W)	250	255	260	265	270	275	280
Maximum Power Voltage (Vmp/V)	30.31	30.58	30.81	31.11	31.33	31.44	31.82
Open-circuit Voltage (Voc/V)	36.50	36.70	36.80	36.90	37.00	37.10	37.30
Maximum Power Current (Imp/A)	8.25	8.34	8.44	8.52	8.62	8.75	8.80
Short-circuit Current (Isc/A)	8.85	8.97	9.12	9.26	9.41	9.50	9.55
Module Efficiency (%)	15.3	15.6	15.9	16.2	16.5	16.8	17.1

STC: Irradiance 1000W/M<sup>2</sup> Module Temperature: 25°C AM=1.5

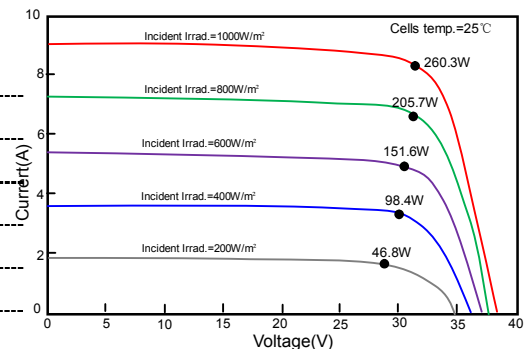
**I-V Curve:**



**Electrical Parameters at Nominal Operating Cell Temperature (NOCT)**

Module type	NBJ-250M	NBJ-255M	NBJ-260M	NBJ-265M	NBJ-270M	NBJ-275M	NBJ-280M
Max Power (Pmax/W)	183	186	190	194	197	201	204
Maximum Power Voltage (Vmp/V)	27.72	28.07	28.32	28.57	28.61	28.85	28.87
Open-circuit Voltage (Voc/V)	34.85	35.05	35.18	35.30	35.47	35.52	35.80
Maximum Power Current (Imp/A)	6.60	6.65	6.72	6.79	6.89	7.03	7.09
Short-circuit Current (Isc/A)	7.02	7.07	7.10	7.13	7.15	7.35	7.41

Under Nominal Operating Cell Temperature (NOCT), irradiance of 800 W/m<sup>2</sup>, spectrum AM1.5, ambient temperature 20°C, wind speed 1m/s.



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