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# **EnergyPal**

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

**Nirmitee Solar Pvt. Ltd.**

**NS225-240P**

**NS225P**

Also available on the web at  
[EnergyPal.com/nirmitee-solar-pvt-ltd-solar-panels/ns225p](http://EnergyPal.com/nirmitee-solar-pvt-ltd-solar-panels/ns225p)

### RECOMENDED FOR



RESIDENTIAL



COMMERCIAL



UTILITY SCALE GROUND MOUNTED

### KEY FEATURES



- Plus power tolerance ( upto +3%) output guaranteed.
- Excellent module conversion efficiency up o 16.22%.
- Designed for high voltage systems of upto 1500VDC, saving on BoS Cost
- Module Certified By TUV for following
  - ✚ For Snow Zone III , withstand high level of wind loads (2400 Pa) & Snow loads (5400 Pa )
  - ✚ For PID Test. No Potential Induced Degradation caused by High Voltage Stress .
  - ✚ Salt mist Corrosion Test
  - ✚ Ammonia Corrosion Test
- Multi stages EL inspection (Pre & Post Lamination) to ensure micro crack-free modules .
- Junction Box & bypass diodes guarantee the module free from over heating & hot-spot effects
- Modules excellent performance under low light environment (morning , evening & cloudy days ) creates better KWH /KW ratio & produce average more electricity in the field .

### Reliable Quality

- ✚ Powerful and stable: manufactured as per stringent quality norms
- ✚ 25 years output warranty.
- ✚ Certified from TUV SAAR & UL India.
- ✚ IP67 rated junction box for long-term weather endurance.
- ✚ 4BB design module improves reliability & module conversion efficiency.
- ✚ Certified for hail resistance.
- ✚ Manufactured in an ISO 9001:2015, ISO 14001:2015 certified facility .
- ✚ Manufactured using highest grade raw materials from reputed international suppliers

### Guaranteed Performance

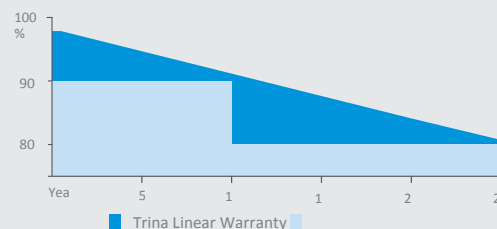


Manufacturing workmanship Warranty



Linear Power output warranty

#### LINEAR PERFORMANCE WARRANTY



## Electrical Parameter at STC

Model Type	NS225P	NS230P	NS235P	NS240P	
Capacity range- Pmax(Wp)	225	230	235	240	
Power Tolerance(%)	0~3	0~3	0~3	0~3	
module efficiency (%)	15.2	15.54	15.88	16.22	
Rated Voltage - Vmp (V)	27.6	27.7	27.8	27.9	
Rated Current -Imp (A)	8.16	8.31	8.46	8.61	
Open Circuit Voltage -Voc (V)	33.6	33.8	34	34.1	
Short Circuit Current -Isc (A)	8.65	8.8	8.95	9.05	

# Under Standard Test Conditions (STC) of irradiance of 1000W/m<sup>2</sup>, spectrum AM1.5 and cell temperature of 25°C

## Temperature coefficients (TC)

Temperature Coefficient (Voc)	-0.33%/°C
Temperature Coefficient (Isc)	0.034%/°C
Temperature Coefficient (Pmax)	-0.42%/°C

## Permissible Operating Conditions

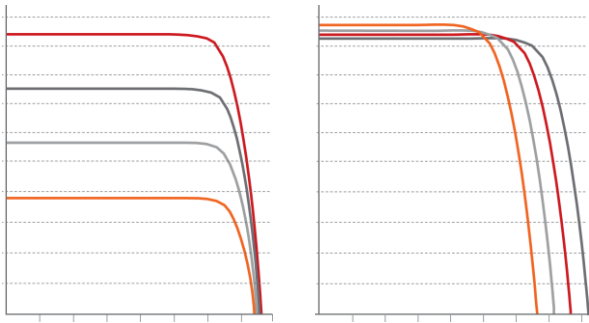
Temperature range	-40°C to +85°C
Maximum system voltage	1500 VDC
NOCT	45±2°C
Maximum surface load	Tested upto 5400Pa according to IEC61215
Hail resistance	Maximum diameter of 25mm with velocity 23m/s

## Mechanical Specification

Solar Cell	54 pcs Poly crystalline Silicon (156mm x 156mm, 0~+1mm) , 4BB ,PID free
Cell encapsulation	Ultra-clear PID free EVA(Ethylene-Vinyl-Acetate)
Backsheet	UV protected reflective backsheet
Frame	Silver Anodised Aluminum Alloy
Front glass	3.2 mm, High transmission, AR Coated Tempered Glass
Dimensions (LxWxH)	1495mm x 990mm x 36mm
Weight	16.0 kgs
Juncon box	IP67 certified , 4-rail, 3 diodes juncon box
Cables & Connectors	Solar cables 1000mm length, 4mm <sup>2</sup> , MC4 compatible connectors
ApplicaonClass	ClassA
Electrical Safety	Class II
Fire Safety	ClassC (Type1)

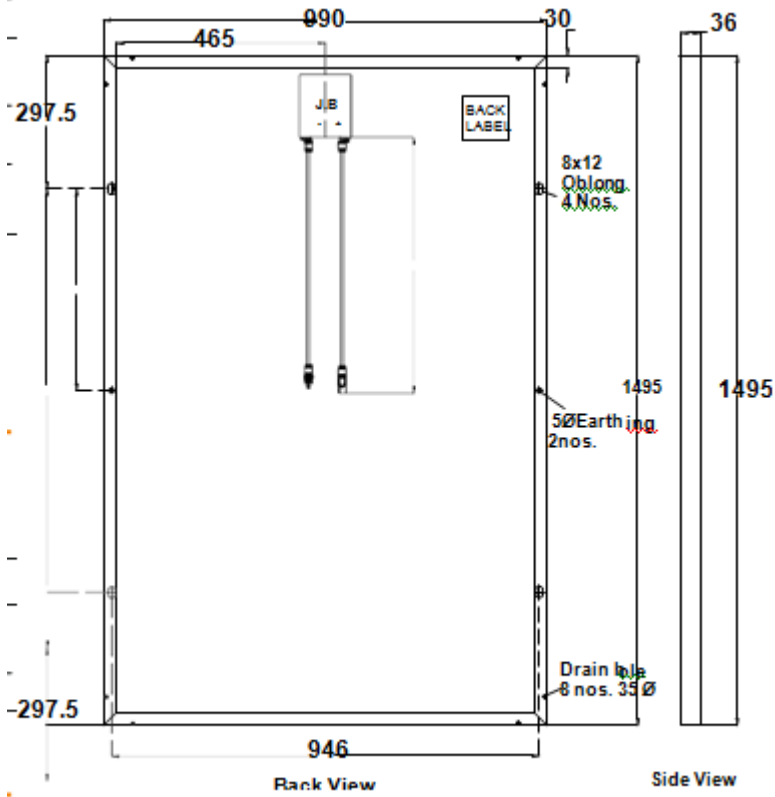
## Packing Information

Each Module in a Inner carton & 2 Modules in a Master Carton



1000w/m <sup>2</sup>	■
800w/m <sup>2</sup>	■
600w/m <sup>2</sup>	■
400w/m <sup>2</sup>	■

5°C	■
25°C	■
45°C	■
65°C	■



All dimensions are in mm

