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# **EnergyPal**

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

**Nirmitee Solar Pvt. Ltd.**

**NS250-270P**

**NS250P**

Also available on the web at  
[EnergyPal.com/nirmitee-solar-pvt-ltd-solar-panels/ns250p](http://EnergyPal.com/nirmitee-solar-pvt-ltd-solar-panels/ns250p)

# Nirmitee

Solar

## AMEYRA 60 CELL SERIES

RECOMMENDED FOR



RESIDENTIAL



COMMERCIAL



UTILITY SCALE GROUND MOUNTED

### KEY FEATURES

- Plus power tolerance ( upto +3%) output guaranteed.
- Excellent module conversion efficiency upto 16.63%.
- 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 )
  - Potential Induced Degradation Test.
  - Salt mist Corrosion Test
  - Ammonia Corrosion Test
  - Hail Resistance
- 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 power output warranty.
- Certified from TUV SAAR & UL India.
- IP67 rated junction box for long-term weather endurance.
- 4BB design improves module reliability & conversion efficiency.
- Certified for hail resistance.
- Manufactured in an ISO 9001:2015, ISO 14001:2015 certified facility.
- Manufactured by using highest grade raw materials from reputed international suppliers.

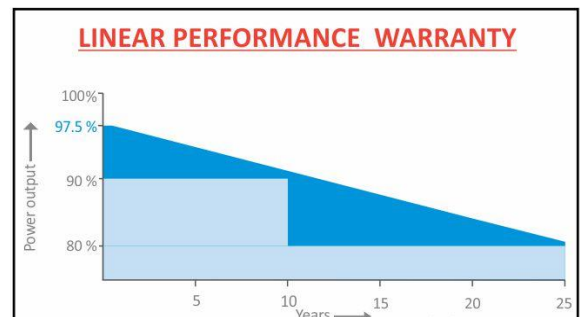
### Guaranteed Performance

10  
Years

Manufacturing workmanship Warranty

25  
Years

Linear Power output warranty



# AMEYRA 60 CELL SERIES

## Electrical Parameter at STC

Model Type	NS250P	NS255P	NS260P	NS265P	NS270P
Capacity range- Pmax(Wp)	250	255	260	265	270
Power Tolerance(%)	0~3	0~3	0~3	0~3	0~3
module efficiency (%)	15.37	15.71	16.01	16.32	16.63
Rated Voltage - Vmp (V)	30.4	30.2	30.3	30.5	30.8
Rated Current -Imp (A)	8.22	8.46	8.59	8.69	8.77
Open Circuit Voltage -Voc (V)	37.3	37.9	38.2	38.4	38.55
Short Circuit Current -Isc (A)	8.74	8.7	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

## Electrical Parameter at NOCT

Model Type	NS250P	NS255P	NS260P	NS265P	NS270P
Capacity Pmax (Wp)	180.05	183.61	187.21	190.81	201.61
Rated Voltage - Vmp (V)	27.45	27.57	27.66	27.84	28.12
Rated Current -Imp (A)	6.57	6.67	6.77	6.85	6.91
Open Circuit Voltage -Voc (V)	34.48	34.86	35.13	35.32	35.45
Short Circuit Current -Isc (A)	6.84	6.92	7	7.12	7.2

# NOCT irradiance of 800W/m<sup>2</sup>, ambient temperature of 20°C Wind speed 1m/sec

## Temperature coefficients (TC)

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

## Permissible Operating Conditions

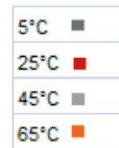
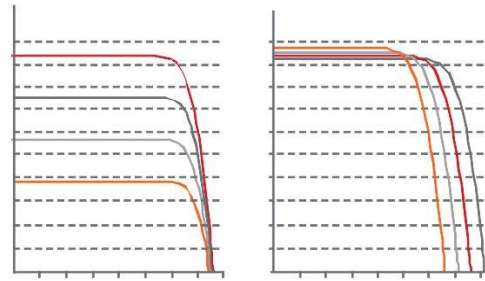
Temperature range	-40°C to +85°C
Maximum system voltage	1500 VDC
NOCT	45±2°C
Maximum surface load	Tested upto 5400Pa according to IEC61215
Hail resistance	Maximum diameter of 25mm with velocity 23m/s

## Mechanical Specification

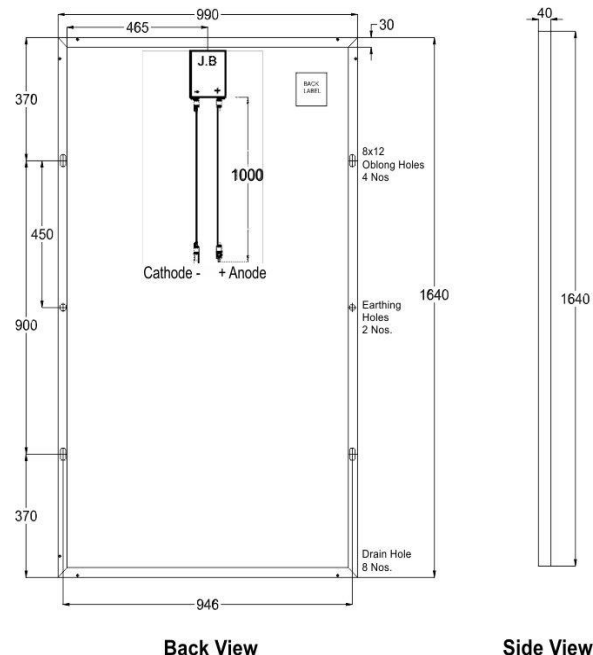
Solar Cell	60 pcs Poly crystalline Silicon (156mm x 156mm, 0~+1mm) , 4BB ,PID free
Cell encapsulation	Ultra-clear PID free EVA(Ethylene-Vinyl-Acetate)
Backsheet	UV protected reflective backsheet
Frame	Silver Anodised Aluminum Alloy
Front glass	3.2 mm, High transmission, AR Coated Tempered Glass
Dimensions (LxWxH)	1640mm x 990mm x 40mm
Weight	18.3kgs
Junction box	IP67 certified , 4-rail, 3 diodes Junction box
Cables & Connectors	Solar cables 1000mm length, 4mm <sup>2</sup> , MC4 compatible connectors
ApplicaonClass	Class A
Electrical Safety	Class II
Fire Safety	ClassC (Type1)

## Packing Information

Container	20'GP	40'HC
Pallets/container	10	28
Modules/container	290	812



## Mechanical Drawing



Back View

Side View