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EnergyPal

Solar Panel Guide Specification Data Sheet

Nirmitee Solar Pvt. Ltd.

NS250-270P

NS270P

Also available on the web at
EnergyPal.com/nirmitee-solar-pvt-ltd-solar-panels/ns270p

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.

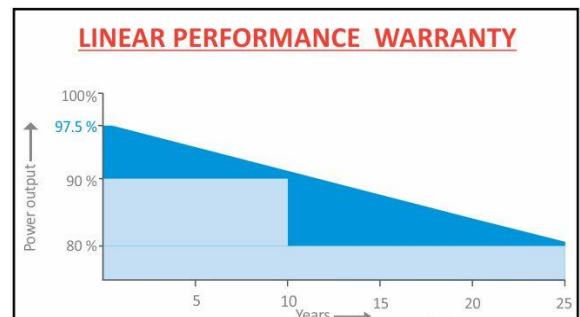
Guaranteed Performance

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/m², 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/m², 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

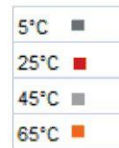
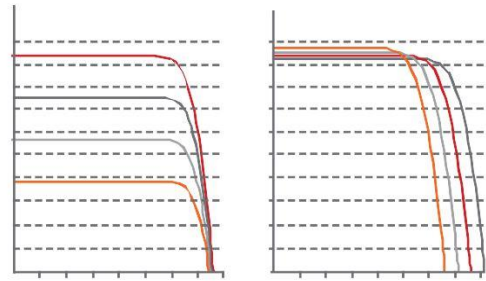
Temperature range	-40°C to +85°C
Maximum system voltage	1500 VDC
NOCT	45±2°C
Maximum surface load	Tested upto 5400Pa according to IEC61215
Hail resistance	Maximum diameter of 25mm with velocity 23m/s

Mechanical Specification

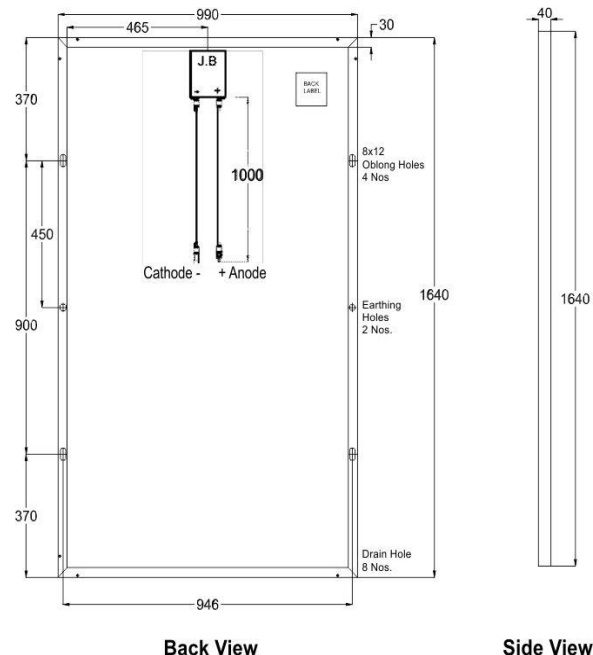
Solar Cell	60 pcs Poly crystalline Silicon (156mm x 156mm, 0~+1mm) , 4BB ,PID free
Cell encapsulation	Ultra-clear PID free EVA(Ethylene-Vinyl-Acetate)
Backsheet	UV protected reflective backsheet
Frame	Silver Anodised Aluminum Alloy
Front glass	3.2 mm, High transmission, AR Coated Tempered Glass
Dimensions (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 ² , 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