

# Nirmitee Solar

## AMEYRA 72 CELL SERIES

RECOMMENDED FOR



RESIDENTIAL



COMMERCIAL



UTILITY SCALE GROUND MOUNTED

### KEY FEATURES

- Plus power tolerance ( upto +3%) output guaranteed.
- Excellent module conversion efficiency upto 16.79%.
- 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.

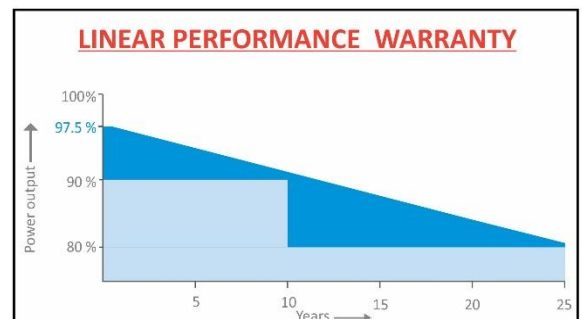
### Guaranteed Performance

10  
Years

Manufacturing workmanship Warranty

25  
Years

Linear Power output warranty

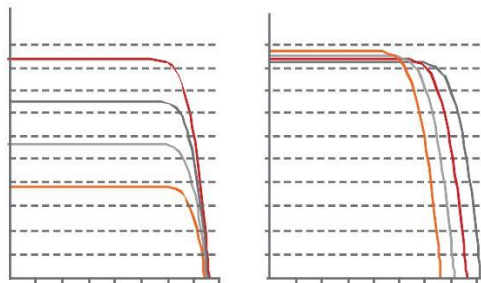


# AMEYRA 72 CELL SERIES

## Electrical Parameter at STC

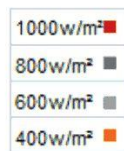
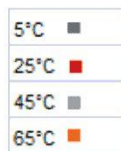
Model Type	NS300P	NS305P	NS310P	NS315P	NS320P	NS325P
Capacity range- Pmax(Wp)	300	305	310	315	320	325
Power Tolerance(%)	0~3	0~3	0~3	0~3	0~3	0~3
module efficiency (%)	15.5	15.76	16.02	16.28	16.53	16.79
Rated Voltage - Vmp (V)	36.6	36.8	36.9	37	37.1	37.2
Rated Current - Imp (A)	8.2	8.3	8.42	8.52	8.63	8.74
Open Circuit Voltage - Voc (V)	45.2	45.4	45.7	46	46.2	46.4
Short Circuit Current - Isc (A)	8.6	8.7	8.8	8.9	9	9.1

# 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	NS300P	NS305P	NS310P	NS315P	NS320P	NS325P
Capacity Pmax (Wp)	216.01	219.61	223.21	226.81	230.41	234.01
Rated Voltage - Vmp (V)	33.41	33.6	33.69	33.78	33.87	33.96
Rated Current - Imp (A)	6.46	6.54	6.64	6.72	6.8	6.89
Open Circuit Voltage - Voc (V)	41.57	41.75	42.03	42.31	42.49	42.67
NOCT (at irradiance of 800W/m <sup>2</sup> , ambient temperature of 20°C Wind speed 1m/s)	38.4	38.4	38.4	38.4	38.4	38.4
NOCT (at irradiance of 800W/m <sup>2</sup> , ambient temperature of 20°C Wind speed 1m/s)	7.16	7.16	7.16	7.16	7.16	7.24



## Temperature coefficients (TC)

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

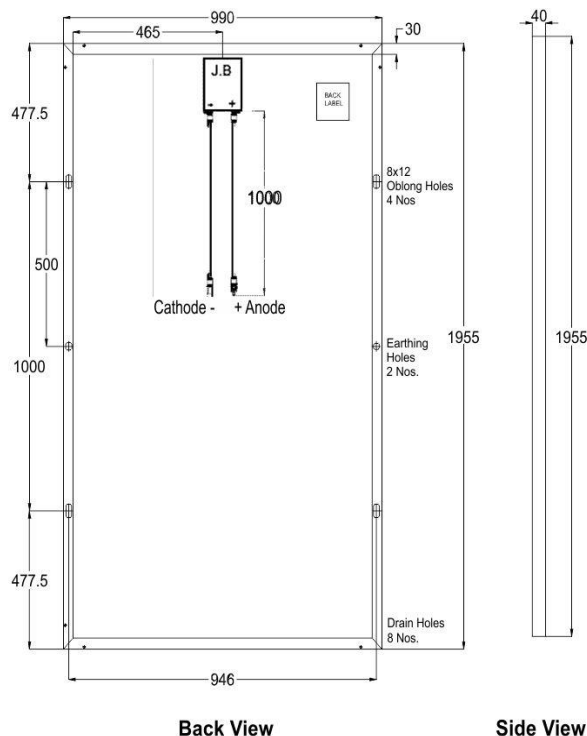
## Permissible Operating Conditions

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	72 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)	1955mm x 990mm x 40mm
Weight	22.0kgs
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)

## Mechanical Drawing



## Packing Information

Container	20'GP	40'HC
Pallets/container	10	24
Modules/container	250	600