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**Solar Panel Guide
Specification Data Sheet**

**Nirmitee Solar Pvt. Ltd.
NS150-160P
NS160**

Also available on the web at
EnergyPal.com/nirmitee-solar-pvt-ltd-solar-panels/ns160

RECOMENDED FOR



RESIDENTIAL



COMMERCIAL

KEY FEATURES



- Plus power tolerance (upto +3%) output guaranteed.
- Excellent module conversion efficiency up o 16 %.
- 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

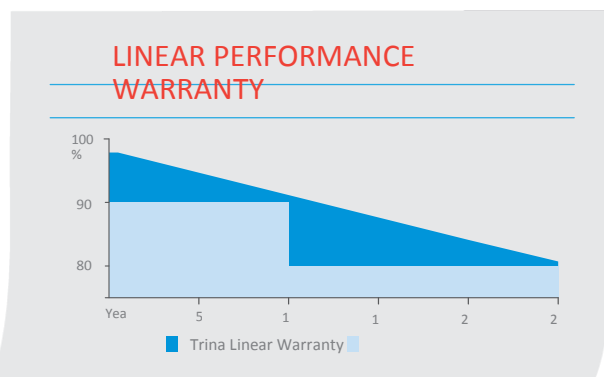
Guaranteed Performance



Manufacturing workmanship Warranty



Linear Power output warranty



Electrical Parameter at STC

Model Type	NS150P	NS155P	NS160P		
Capacity range- Pmax(Wp)	150	155	160		
Power Tolerance(%)	0~3	0~3	0~3		
module efficiency (%)	15.09	15.59	16.09		
Rated Voltage - Vmp (V)	18	18.2	18.4		
Rated Current -Imp (A)	8.35	8.52	8.7		
Open Circuit Voltage -Voc (V)	22.5	22.7	22.9		
Short Circuit Current -Isc (A)	8.7	8.85	9		

Under Standard Test Condtions (STC) of irradiance of 1000W/m², 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

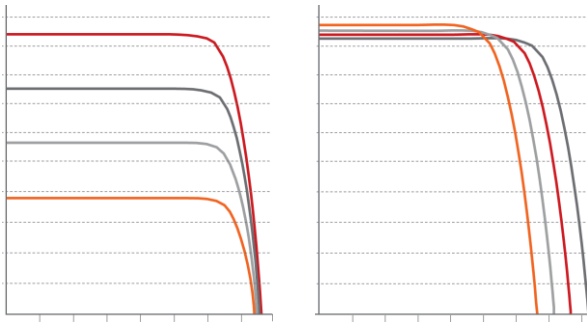
Temperature range	-40°Cto+85°C
Maximum system voltage	1500 VDC
NOCT	45±2°C
Maximum surface load	Tested upto 5400Pa according to IEC61215
Hail resistance	Maximum diameter of 25mm with velocity 23m/s

Mechanical Specification

Solar Cell	36 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 665mm x 36mm
Weight	12.2 kgs
Juncon box	IP65 cerfied , 3-rail, 2 diodes juncon box
Cables & Connectors	Solar cables 1000mm length, 4mm ² , MC4 compaitable connectors
ApplicaonClass	ClassA
Electrical Safety	Class II
Fire Safety	ClassC (Type1)

Packing Information

Each Module in a Inner carton & 5 Modules in a Master Carton



1000w/m²	■
800w/m²	■
600w/m²	■
400w/m²	■

5°C	■
25°C	■
45°C	■
65°C	■

