



**Neosol Technologies Pvt. Ltd.**

**“Solar makes  
your life better”**

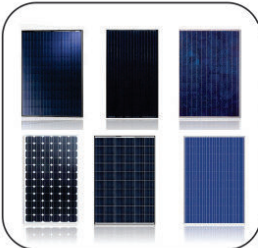


## Company Profile



Neosol Technologies Pvt. Ltd. is the Leading organization in the field of renewable energy attached with some leading companies in the power sector of India and abroad and is proud to be among the list of 100% renewable companies with its focus on **"Designing, Engineering, Manufacturing, Supplying, Installing, Testing and Commissioning of any kind of Solar Photovoltaic plants, equipments and systems that cater to both domestic and Industrial needs."**

Strong vision coupled with professional and ethical business practices have helped it achieve good position in the markets it serves in India.



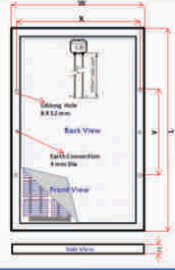
As part of its growth strategy, NTPL ventured in to high technology area and has set up a State of the Art Solar PV Modules manufacturing plant in the state of Haryana with technology and production plant sourced from Outside India. Its manufacturing plant is an ISO 9001 :2008 and ISO 14001 :2004 certified facility and produces full range of regular PV modules ranging from 3W-350Wp

### Product Features of PV Modules

- Extra Long life
- Extra Energy/Power
- Extremely Compact Size
- Made of A Grade Solar Cells with up to 20.8% cells efficiency
- One of the most compact and efficient 156mm, 60/72 Cells Module
- Module stability and reliability due to high – quality raw materials
- Positive Power Tolerance
- Snow and wind load tested
- ARC glass with UV-T & UV-C encapsulant ensure higher module efficiency
- Reliable schottky bypass diode minimizes power drop by shed
- All weather- resistance junctions box and crosslink cable
- PID resistance cells & encapsulants yield efficient performance under hot & humid weather.
- TUV : IEC61215, IEC61730 certified from 3W – 300W



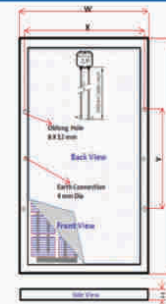
## Solar Module Specification

Electrical Characteristics	NS-10 Wp	NS-20 Wp	NS-40 Wp	NS-50 Wp	NS-60 Wp	NS-75 Wp	NS-100 Wp	NS-125 Wp	NS-150 Wp
Peak Power (WP)	10	20	40	50	60	75	100	125	150
Open Circuit Voltage Voc (V)	21.60								
Short Circuit Current Isc (A)	.78	1.28	2.41	3.06	3.54	4.59	6.22	7.45	8.72
Voltage at maximum Power (Vmp) (V)	17.54	18	18	18	18	18	18	18	18
Current at maximum Power (Imp) (A)	.68	1.15	2.24	2.82	3.35	4.21	5.75	6.95	8.35
Maximum System Voltage (V)	600								
<b>Physical Parameters</b>									
Solar Cell Type (MC)	Multi								
Solar Cell Per Module (Units)	36								
Arrangement of cells(L*B) (nos.)	9*4	9*4	9*4	9*4	9*4	9*4	9*4	9*4	9*4
Weight (kg)	1.200	2.200	3.700	4.320	4.90	6.580	8.300	9.70	11.10
Hole to hole dimension (mm)(CTC)	X = 315 Y = 145	X = 315 Y = 260	X = 645 Y = 212	X = 645 Y = 267	X = 645 Y = 297	X = 645 Y = 386	X = 630 Y = 505	X = 630 Y = 627	X = 630 Y = 742
Module Size L x W x H (mm)	340*295*22	525*340*22	660*425*38	660*535*38	660*595*38	773*660*38	1010*665*35	1255*665*35	1485*665*35
Measurement Tolerance on power +/-3 %. All electrical parameters specified at: STC: 25 C cell temperature; 1000W/m2 Irradiance									
Other Characteristics	All dimension in mm tolerances ± 2MM								
Type of Cell	Multi Crystalline Silicon								
Front Face	Tempered Glass (Low Iron), 3.2mm								
Encapsulate	Ethylene Vinyl Acetate (PID)								
Frame	=17µ Anodize Thickness Aluminium Frame with Twin Profile								
Junction Box	IP 65/67, 3 Terminal, 2 Diodes								
Temp. Coefficients of Pmax (%/oC)	-0.45								
Temp. Coefficients of Voc (%/oC)	-0.35								
Temp. Coefficients of Isc (%/oC)	0.05								



## Solar Module Specification

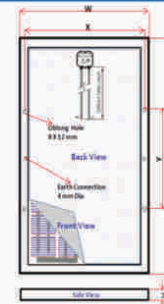
Electrical Characteristics	NS-200Wp	NS-200Wp	NS-250Wp	NS-250Wp	NS-250Wp	NS-260Wp	NS-270Wp	NS-280Wp	
Peak Power (WP)	200	200	250	250	250	260	270	280	
Open Circuit Voltage Voc (V)	21.60	36.8	37.36	21.6	44.64	37.85	38.46	38.54	
Short Circuit Current Isc (A)	12	7.26	8.57	15	7.26	8.78	9.10	9.85	
Voltage at maximum Power (Vmp) (V)	17.64	30.68	30.82	17.64	35.06	31.38	31.52	31.65	
Current at maximum Power (Imp) (A)	11.35	6.54	8.14	14.2	7.15	8.29	8.54	8.75	
Hole to hole dimension (mm)(CTC)	X = 945 Y = 740		X = 945 Y = 822						
Module size LxWxH (mm)	1485*982*35			1644*982*35					
Solar Cell Per Module (Units)	72	60	60	72		60			
Solar Cell Type (MC)					Multi			Mono	
Maximum System Voltage (V)	1000 (TUV)								
Arrangement of cells(L*B) (nos.)	12*6	10*6		12*6		10*6			
Weight	16.8	16.8	17.6						
Junction Box (IP67)	4 terminal with 3 bypass diodes(20A)								
Tolerance of electrical parameters	±3%,Pin Positive Tolerance					Guarantee & Certifications: Product Warranty: 25 Years			
Temperature Coefficients						Performance Guaranteed Power: Output of 90%			
Coefficients of currents a (%/°C)	0.05±0.02					for 10 Years & 80% for 25 Years			
Coefficients of Voltage b (%/°C)	-0.35±0.01					Approval & Certificates: MNRE, IEC & ISO			
Coefficients of Power b (%/°C)	-0.44±0.02					TUV: IEC 61215 ed. IEC 61730			
Maximum System Voltage (V)	1000(TUV)					Packing Information: Quantity/Pallet: 2 in 1			
Temperature Range	-40°C to +85°C								
Efficiency Reduction at 200wm <sup>2</sup> ,25°C	<5%								
Standard Test Condition (STC)	Irradiance 1000W/m <sup>2</sup> , Temperature 25°C,AM 1.5								
Mechanical Specification									
Cabel & Connections	4mm <sup>2</sup> . TUV Certified, 1000 mm (Optional)								
Application Class	Class A (Safety Class)								
Front Cover	High Transmission, Low Iron, Tempered Glass								
Cell Incapsulate	Ethylene Vinyl Acetate (PID)								
Back Cover	Composite Film								
Frame	=17µ Anodize Thickness Aluminium Frame with Twin Profile								





## Solar Module Specification

Electrical Characteristics	NS-300Wp	NS-305Wp	NS-310Wp	NS-315Wp	NS-320Wp	NS-330Wp	NS-340Wp	NS-350Wp	
Peak Power (WP)	300	305	310	315	320	330	340	350	
Open Circuit Voltage Voc (V)	45.36	45.38	45.67	46.04	46.12	46.42	47.26	47.44	
Short Circuit Current Isc (A)	8.64	8.68	8.76	8.89	8.98	9.40	9.81	9.85	
Voltage at maximum Power (Vmp) (V)	37.66	37.43	37.54	37.76	37.82	37.85	37.89	37.93	
Current at maximum Power (Imp) (A)	7.99	8.15	8.26	8.34	8.47	8.72	9.04	9.24	
Hole to hole dimension (mm)(CTC)						X = 940 Y = 980			
Module size L x W x H (mm)						1960*982*35			
Solar Cell Per Module (Units)						72			
Solar Cell Type (MC)						Multi	Mono		
Maximum System Voltage (V)						1000 (TUV)			
Arrangement of cells(L*B) (nos.)						12*6			
Weight						21.8			
Junction Box (IP67)						4 terminal with 3 bypass diodes(20A)			
Tolerance of electrical parameters						±3%,Prn Positive Tolerance	Guarantee & Certifications: Product Warranty: 25Years		
Temperature Coefficients						Performance Guaranteed Power: Output of 90% for 10 Years & 80% for 25 Years			
Coefficients of currents a (%/°C)						0.05±0.02	Approval & Certificates: MNRE, IEC & ISO		
Coefficients of Voltage b (%/°C)						-0.35±0.01	TUV IEC 61215 ed. IEC 61730		
Coefficients of Power b (%/°C)						-0.44±0.02	Packing Information: Quantity/Pallet: 2 in 1		
Maximum System Voltage (V)						1000(TUV)			
Temperature Range						-40°C to +85°C			
Efficiency Reduction at 200wm <sup>2</sup> ,25°C						<5%			
Standard Test Condition (STC)						Irradiance 1000Wm <sup>2</sup> , Temperature 25°C,AM 1.5			
Mechanical Specification									
Cabel & Connections						4mm <sup>2</sup> , TUV Certified, 1000 mm (Optional)			
Application Class						Class A (Safety Class)			
Front Cover						High Transmission, Low Iron, Tempered Glass			
Cell Incapsulate						Ethylene Vinyl Acetate (PID)			
Back Cover						Composite Film			
Frame						=17μ Anodize Thickness Aluminium Frame with Twin Profile			





## Certifications

*Certificate of Registration*

**ISO 9001:2015**

M14450915N

This is to certify that the Quality Management System of

**NEOSOL TECHNOLOGIES PVT. LTD.**

OFFICE - 6/65, PLAZ NO. 7, 2ND FLOOR, PUNJABI BAGH WEST,  
NEW DELHI - 110064, INDIA.  
WORKS - PLOT NO. 173, SECTOR - 6, IIT MANESAR,  
GURGAON - 122001, HARYANA, INDIA.

has been audited and conformed to be in accordance with the requirements of

**ISO 9001:2015**

The Quality Management System is Applicable to :

MANUFACTURING OF SOLAR PV MODULES AND SUPPLY, INSTALLATION COMMISSIONING, OPERATIONS AND MAINTENANCE OF SOLAR PV POWER PROJECTS, SOLAR THERMAL PROJECTS AND SOLAR LIGHTING SYSTEMS.

Certificate No: 16QAY97      Issuance Date: 21/12/2016  
Initial Registration Date: 21/12/2016      Date of Expiry\*: 20/12/2019  
First Surveillance Date: 21/11/2017  
Second Surveillance Date: 21/11/2018

DIRECTOR

ACCURATE BUSINESS CERTIFICATION PRIVATE LIMITED  
144, 7th Floor Puda 11, Sector 24, Gurgaon, New Delhi - 110061 Email: info@abctest.in

*Certificate of Registration*

**ISO 14001:2015**

M14450915N

This is to certify that the Environmental Management System of

**NEOSOL TECHNOLOGIES PVT. LTD.**

OFFICE - 6/65, PLAZ NO. 7, 2ND FLOOR, PUNJABI BAGH WEST,  
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Certificate No: 16EA187      Issuance Date: 21/12/2016  
Initial Registration Date: 21/12/2016      Date of Expiry\*: 20/12/2019  
First Surveillance Date: 21/11/2017  
Second Surveillance Date: 21/11/2018

DIRECTOR

ACCURATE BUSINESS CERTIFICATION PRIVATE LIMITED  
144, 7th Floor Puda 11, Sector 24, Gurgaon, New Delhi - 110061 Email: info@abctest.in

**TÜV SÜD**

ZERTIFIKAT NR. PV/71/2201/4/0061      SEITE 1/2

GENÜHMIGUNGSNABER: NEOSOL TECHNOLOGIES PRIVATE LTD.  
PLOT NO.173, SECTOR-6, IIT MANESAR, GURGAON-122001, HARYANA, INDIA.

FERTIGUNGSSTÄTTE: NEOSOL TECHNOLOGIES PRIVATE LTD.  
PLOT NO.173, SECTOR-6, IIT MANESAR, GURGAON-122001, HARYANA, INDIA.

Produkt-Bau-ID: SHE16100004PV 306169

GENÜHMIGTES PROFIZIEN: IEC 61218:2008, EN 61218:2009, IEC 61730-1:2013 und I.3.1: EN 61730-1:2007, EN 61730-2:2007

Zertifizierte(r) Produkt(e): Crystalline Silicon PV Modules

Markenzeichen: NEOSOL

Zertifizierungsstelle: TÜV SÜD Star Center

14.07.2014

Mickael Spies

**TÜV SÜD**

ZERTIFIKAT NR. PV/71/2201/4/0061      SEITE 2/2

GENÜHMIGUNGSNABER: NEOSOL TECHNOLOGIES PRIVATE LTD.  
PLOT NO.173, SECTOR-6, IIT MANESAR, GURGAON-122001, HARYANA, INDIA.

FERTIGUNGSSTÄTTE: NEOSOL TECHNOLOGIES PRIVATE LTD.  
PLOT NO.173, SECTOR-6, IIT MANESAR, GURGAON-122001, HARYANA, INDIA.

Technische Daten: Details of certified solar modules are documented on the test report.

Bemerkungen: The certificate is for type approval and based on voluntary product tests. Any changes to the design, materials, or components or producing new batches of modules of the manufacturer shall be in order to retain type approval.

Umfang: 13.07.2014

Zertifizierungsstelle: TÜV SÜD Star Center

14.07.2014

Mickael Spies





### Factory Address

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173, Sector-6, IMT, Mnesar,  
Gurgaon-122 051 (Haryana)

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### Regd. Office

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