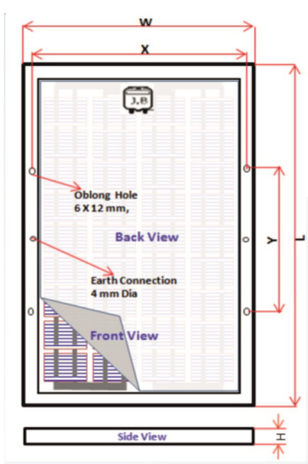
NEOSOL

NEOSOL PEARLS SERIES

Solar Module Specification

Electrical Characteristics	NS-40 WP	NS-50 WP	NS-60 WP	NS-75 WP	NS-100 WP	NS-125 WP	NS-160 WP	NS-170 WP	NS-175 WP
Peak Power (WP)	40	50	60	75	100	125	160	170	175
Open Circuit Voltage (VOC) (V)	22.82		22.93	20.73	22.82	23.14	22.82	23.25	23.62
Short Circuit Current (ISC) (A)	2.22	2.96	3.29	4.52	5.6	6.73	8.89	9.36	9.7
Voltage at maximum Power (Vmp) (V)	19.26		19.4	17.63	19.26	19.54	19.26	18.85	18.95
Current at maximum Power (Imp) (A)	2.09	2.78	3.09	4.42	5.26	6.35	8.35	9.05	9.25
Maximum system voltage (V)	600 (VDC)								
Physical Parameters									
Solar Cell Type	Multi							Mono	Mono
Solar Cell Per Module (Units)	36								
Arrangement of Cells (L*B) (nos)									
Weight (kg)	3.7	4.32	4.9	6.58	8.3	9.7	11.1	11.1	11.1
Hole to Hole Dimension (mm) (CTC)	X=633 Y=212.5	X=633 Y=270	X=633 Y=302.5	X=633 Y=387.5	X=633 Y=505	X=633 Y=612.5	X=633 Y=742.5	X=633 Y=742.5	X=633 Y=742.5
Module Size L × W × H × (mm)	425x665x35	540x665x35	605x665x35	775x665x35	1010x665x35	1225x665x35	1485x665x35		
Module Efficiency	≥14.32	≥14.2	≥15.3	≥14.7	≥15.01	≥15.1	≥16.28	≥17.38	≥17.85
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 / Mono Crystalline Silicon / MONO
Front Face	Tempered Glass (Low Iron), 3.2mm, ARC Coated
Cell Encapsulate	Ethylene Vinyl Acetate (PID)
Frame	≥ 17µ Anodize thickness aluminum frame with twin wall profile
Junction Box	IP 65/67,3 Terminal, 2 Diodes
Temp. Coefficients of Pmax (%/ °C)	-0.45
Temp. Coefficients of Voc (% / °C)	-0.35
Temp. Coefficients of ISC (%/°C)	0.05



IEC CAS CE CERTIFIED ISO 9001:2008 COMPANY Govt. of India MNRE APPROVED MAKE IN INDIA

Solar Module Specification

Electrical Characteristics	NS-210 WP	NS-210 WP	NS-210 WP	NS-260 WP	NS-260 WP	NS-260 WP	NS-270 WP	NS-280 WP	NS-295 WP
Peak Power (WP)	210	210	210	260	260	260	270	280	295
Open Circuit Voltage (VOC) (V)	22.68	37.24	45.55	22.38	37.8	45.64	38.46	38.54	38.88
Short Circuit Current (Isc) (A)	12.55	7.46	6.98	15.1	8.92	7.45	9.1	9.85	9.32
Voltage at maximum Power (Vmp) (A)	18.01	29.62	34.89	18.3	31.15	36.25	31.52	31.65	32.77
Current at maximum power (Imp) (A)	11.69	7.12	6.02	14.25	8.35	7.18	8.54	8.75	9.02
Hole to Hole Dimension (mm) (CTC)	X=950 Y=667.5			x = 945 y= 822					
Module Size L × W × H × (mm)	1335x985x35			1649x990x35 MM					
Module Efficiency	≥16.24	≥16.24	≥16.24	≥16.21	≥16.21	≥16.21	≥16.78	≥17.42	≥18.42
Solar Cell Per Module (Units)	72	60	72	72	60	72	60	60	60
Solar Cell type	Multi							Mono/PERC	
Maximum System Voltage (V)	1500 (VDC)								
Arrangement of Cells (L*B) (nos)	12*6	10*6	12*6	12*6	10*6	12*6	10*6	10*6	10*6
Weight (kg)	16.8			17.6					
Junction Box (IP 67/68)	4 terminal with 3 bypass diodes (20A)								
Tolerance of Electical Parameters:	± 3%, Pm positive tolerance					**Guarantee and Certification:** Product Warranty : 25 years			
Temperature Coefficients						Performance Guaranted Power Output of 90% for 10Years & 80% for 25 Years			
Coefficient of Current a (% °C)	0.05 ± 0.02					Approval & Certificates: MNRE, IEC & ISO, TUV: IEC 61215 ed,IEC 61730			
Coefficient of Voltage β (% °C)	-0.35 ± 0.01								
Coefficient of Power λ (% °C)	-0.44 ± 0.02								
Maximum System Voltage (V)	1500 (VDC)								
Temperature range	-40° C to + 85° C								
Efficiency Reduction at 200W/m² , 25 °C	<5%								
Standard Test Condition (STC)	Irradiance 1000W/m2, Temperature 25 °C, AM 1.5								
Mechanical specification:									
Cable & Connectors	4mm², TUV Certified,1000 mm(optional)								
Application Class	CLASS A (Safety class)								
Front Cover	HighTransmission, Low Iron, Tempered Glass, ARC Coated								
Cell Encapsulate	Ethylene Vinyl Acetate (PID)								
Back Cover	Composite film								
Frame	≥ 17µ Anodize thickness aluminum frame with twin wall profile