

SENZA[®] SOLAR

AMH SOLAR[™]



IT'S A SUNNY WORLD WITH SUN N SAND

COMPANY OVERVIEW

Senza Solar is the most integrated firm, which runs with the motto of using the immense power of Sun, to provide India wide solar energy. After minute and competitive market study of the solar power utility and demand in India, Senza Solar was established in the year 2016, in Haryana and second unit was established in the year 2019, in Punjab with additional brand names of AMH Solar & SunPro Solar. Which has increased our annual manufacturing capacity to **150MW**. The team Senza Solar is always with high believe in Research and Development. We aim to provide the ultimate power of Sun to all parts of India.

At Senza Solar, we focus on quality & performance. We make sure that our products are effective in every possible sense. The solar modules are produced with Cutting Edge Technology, that makes them the best in terms of power generation.

Our team of Engineers are innovative & creative. The R&D department works continuously towards developing new and effective products.

Senza solar is a part of SUN N SAND EXIM GROUP of companies which is a well known brand in the field of decorative construction material & Pre-Press business.

PRODUCTS & SERVICES



Solar Energy & Solar Products :

Solar power is most convenient because it is clean (does not produce fume), renewable (easily can be renewed every day by the Sun), and also quite (contrary to Diesel/Petrol generator). The cost of traditional mode of electricity is increasing consistently. The installation of the solar infrastructure may initially be a little high, but after this initial expense, there is no recurrence cost. On the other hand, Traditional power generation systems such as thermal etc are fast consuming natural resources where as solar generation is a renewable each day without any natural resource consumption. Consequently, we will soon be without these natural resources. That is why; solar power is useful, as it can be renewed every day with the rays of Sun.

EPC

The highly skilled and dedicated EPC Team at Senza Solar ensures the completion of each solar plant from concept to commissioning including its operation and maintenance for the complete lifespan of the plant. The company, over the years, has developed an internationally accredited expertise in engineering and technology, procurement and project management, construction and commissioning, with a strong command over asset management. Its business model ranges from the acquisition of developed sites to the servicing and maintenance of completed solar arrays throughout its lifespan.





Solar Rooftop System:

Solar rooftop system is a useful way of producing cost effective electricity for domestic and commercial purpose. This infrastructure can be mounted on the roof of houses and offices for domestic power generation. For commercial power generation usually large commercial fields are required. It is made up of a set of PV modules, and it converts solar power into electrical power.

Solar Street Light

Solar Street Light are a independent light sources which are wireless and not connected to any electricity provider. That is why the risk of the accident is minimized than the conventional light. Solar street light are dependent of the heat energy given off by the SUN, storing as much of it throughout the day. These light have lower chances of overheating compare than the conventional light. Solar Street Lightning systems are more efficient & handy solution to the lightning problems in remote areas.



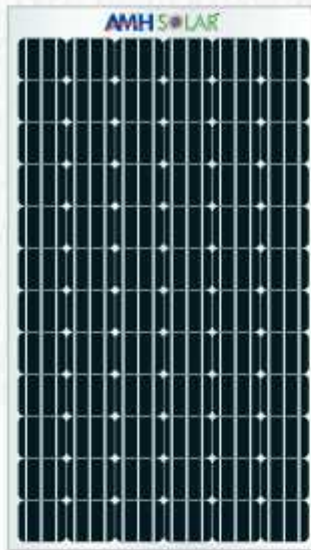
Solar Pump:

Solar Pump has a small power house and calibrated solar modules. It can be tuned with any particular pumping system for any particular work, like irrigation pump, submersible pump. Deep or surface well can easily be associated with this drip irrigation for enhancing the results.

Water Heating system

Water Heating System powered by solar energy is very cost effective and eco friendly. This system is very effective in any climate. Generally two types of Solar Water Heating systems are available in the market; these are Active Solar Water Heating System and another is Passive Water Heating System.





MECHANICAL DATA

Cell Type	: 156.75mm x 156.75mm
Cell Arrangement	: 72Cells / 60 Cells in series
Dimensions	: 1965 x 990 x 40/35mm / 1645 x 990 x 35mm
Weight	: 22.00kg / 18.00 kg
Front Cover	: 3.2 mm tempered glass
Frame Material	: Anodized Aluminium Alloy
J-Box	: IP67, 3 diodes
Cable	: 4mm ²

MODULE:

350W-370W (72 CELLS)
270W-280W (60 CELLS)

ELECTRICAL SPECIFICATION

Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m², Cells Temperature 25°C)

Model Type	SNS-275	SNS-280	SNS-350	SNS-360	SNS-370
Nominal Maximum Power (P _{max})	275W	280W	350W	360W	370W
Optimum Operating Voltage (V _{mp})	31.70V	31.80V	39.5V	40.2V	40.9V
Optimum Operating Current (I _{mp})	8.68A	8.81A	8.92A	9.00A	9.10A
Open Circuit Voltage (V _{oc})	37.80V	38.00V	47.16V	47.68V	48.20V
Short Circuit Current (I _{sc})	9.33A	9.45A	9.52A	9.62A	9.70A
Module Efficiency (%)	16.88	17.19	17.99	18.50	19.02
Power Tolerance			0 to +6W		
Maximum System Voltage			DC 1000V / 1500V		
Operating Temperature			-40°C – +85°C		
Maximum Series fuse Rating			20A		
Numbers of Bypass Diode			3		



QUALITY DESIGN | GREAT DURABILITY | EASY INSTALLATION

Also Available In a range of WP as per Customer Requirement

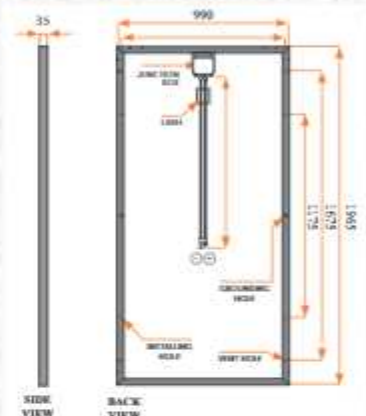
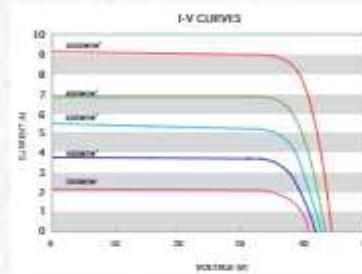
* All data as per standard test condition * Actual product specification make vary * Please check actual test report attached with each panel.



MODULE :
315W-350W (72 CELLS)

MECHANICAL DATA

Cell Type	: 156.75mm x 156.75mm
Cell Arrangement	: 72 Cells in series
Dimensions	: 1965 x 990 x 40/35mm
Weight	: 22.00kg
Front Cover	: 3.2 mm tempered glass
Frame Material	: Anodized Aluminium Alloy
J-Box	: IP67, 3 diodes
Cable	: 4mm ²



ELECTRICAL SPECIFICATION

Electrical parameters at standard test conditions (STC: AM=1.5, 1000W/m², Cells Temperature 25°C)

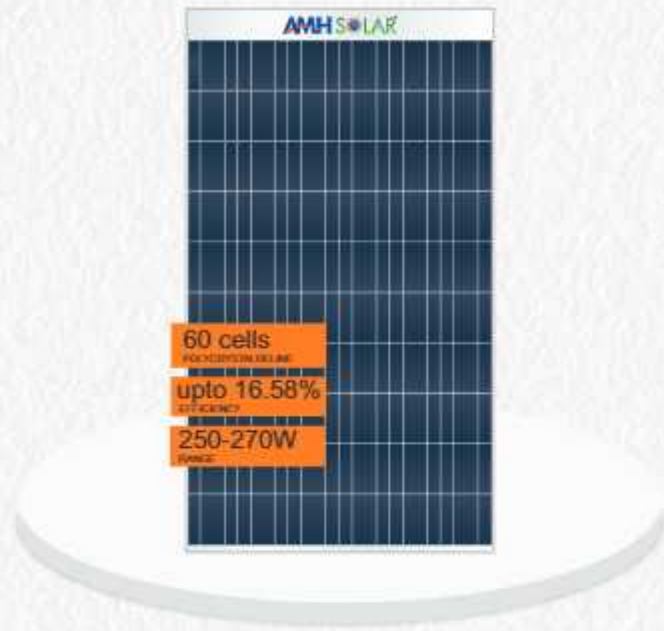
Model Type	SNS-315	SNS-320	SNS-325	SNS-330	SNS-335	SNS340	SNS-350
Nominal Maximum Power (Pmax)	315W	320W	325W	330W	335W	340W	350W
Optimum Operating Voltage (Vmp)	37.48V	37.78V	38.10V	38.42V	37.99V	38.25V	38.76V
Optimum Operating Current (Imp)	8.41A	8.47A	8.53A	8.59A	8.82A	8.91A	9.03A
Open Circuit Voltage (Voc)	45.07V	45.29V	45.50V	45.79V	45.80V	45.13V	45.73V
Short Circuit Current (Isc)	8.80A	8.87A	8.94A	9.01A	9.30A	9.38A	9.50A
Module Efficiency (%)	16.11	16.37	16.62	16.88	17.13	17.39	17.90
Power Tolerance	0 to +6W						
Maximum System Voltage	DC 1500V						
Operating Temperature	-40C - +85C						
Maximum Series fuse Rating	20A						
Numbers of Bypass Diode	3						



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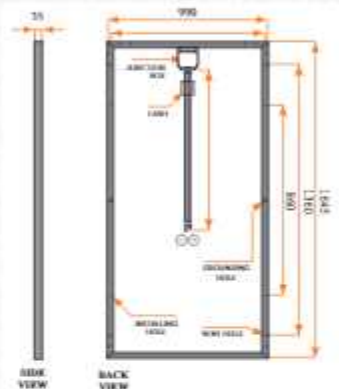
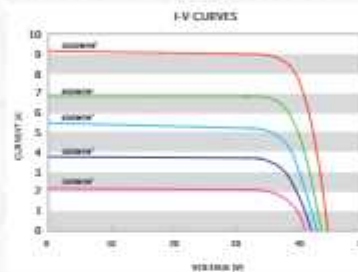
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MODULE :
250W-270W (60 CELLS)

MECHANICAL DATA

- Cell Type : 156.75mm x 156.75mm
- Cell Arrangement : 60 Cells in series
- Dimensions : 1645 x 990 x 35mm
- Weight : 18.00kg
- Front Cover : 3.2 mm tempered glass
- Frame Material : Anodized Aluminium Alloy
- J-Box : IP67, 3 diodes
- Cable : 4mm²



ELECTRICAL SPECIFICATION

Electrical parameters at standard test conditions (STC: AM=1.5, 1000W/m², Cells Temperature 25°C)

Model Type	SNS-250	SNS-255	SNS-260	SNS-265	SNS-270
Nominal Maximum Power (Pmax)	250W	255W	260W	265W	270W
Optimum Operating Voltage (Vmp)	30.30V	30.72V	31.06V	31.40V	32.46V
Optimum Operating Current (Imp)	8.254A	8.30A	8.37A	8.44A	8.48A
Open Circuit Voltage (Voc)	37.08V	37.26V	37.50V	37.68V	38.16V
Short Circuit Current (Isc)	8.67A	8.78A	8.83A	8.85A	8.96A
Module Efficiency (%)	15.35	15.66	15.96	16.27	16.58
Power Tolerance	0 to +6W				
Maximum System Voltage	DC 1000V				
Operating Temperature	-40C ~ +85C				
Maximum Series fuse Rating	20A				
Numbers of Bypass Diode	3				



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MODULE :
200W-220W



MODULE :
160W



MODULE :
100W-110W

MECHANICAL DATA	MODULE : 200-220W	MODULE : 160W	MODULE : 100-110W
Cell Type	: 104mm x 156.75mm	78.37mm x 156.75mm	104/52mm x 156.75mm
Cell Arrangement	: 72 Cells in series	72 Cells in series	36/72 Cells in series
Dimensions	: 1335x990x35mm	1490x670x35mm	1010x665x35mm
Weight	: 13.50kg	12kg	7.8kg
Front Cover	: 3.2 mm tempered glass	3.2 mm tempered glass	3.2 mm tempered glass
Frame Material	: Anodized Aluminium Alloy	Anodized Aluminium Alloy	Anodized Aluminium Alloy
J-Box	: IP67, 3 diodes	IP67, 2 diodes	IP67, 2 diodes
Cable	: 4mm ²	4mm ²	

ELECTRICAL SPECIFICATION

Electrical parameters at standard test conditions (STC: AM=1.5, 1000W/m², Cells Temperature 25°C)

Model Type	SNS-220	SNS-200	SNS-160	SNS-110	SNS-100
Nominal Maximum Power (P _{max})	: 220W	200W	160W	110W	100W
Optimum Operating Voltage (V _{mp})	: 19.35V	19.04V	19.35	19.00	18.95V
Optimum Operating Current (I _{mp})	: 11.37A	10.09A	8.46A	5.89A	5.29A
Open Circuit Voltage (V _{oc})	: 23.69V	23.39V	23.01V	22.97V	22.68V
Short Circuit Current (I _{sc})	: 11.97A	11.06A	8.84A	5.99A	5.53A
Module Efficiency (%)	: 16.52	15.02	15.83	15.91	14.46
Power Tolerance			0 to +6W		
Maximum System Voltage			DC 1000V		
Operating Temperature			-40C ~ +85C		
Maximum Series fuse Rating	: 20A	20A	10A	10A	10A
Numbers of Bypass Diode	: 3	3	2	2	2



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MODULE : 160W



MODULE : 150W



MODULE : 140W



MODULE : 120W

MECHANICAL DATA	MODULE : 160W	MODULE : 150W	MODULE : 140W	MODULE : 120W
Cell Type	: 156.75mm x 156.75mm	: 156.75mm x 156.75mm	: 136mm x 156.75mm	: 120mm x 156.75mm
Cell Arrangement	: 36 Cells in series	: 36 Cells in series	: 36 Cells in series	: 36 Cells in series
Dimensions	: 1490x670x35mm	: 1490x670x35mm	: 1305x 665 x 35mm	: 1165x 665 x 35mm
Weight	: 12kg	: 12kg	: 10.5kg	: 9.5kg
Front Cover	: 3.2 mm tempered glass	: 3.2 mm tempered glass	: 3.2 mm tempered glass	: 3.2 mm tempered glass
Frame Material	: Anodized Aluminium Alloy	: Anodized Aluminium Alloy	: Anodized Aluminium Alloy	: Anodized Aluminium Alloy
J-Box	: IP67, 2 diodes	: IP67, 2 diodes	: IP67, 2 diodes	: IP67, 2 diodes

ELECTRICAL SPECIFICATION

Electrical parameters at standard test conditions (STC: AM=1.5, 1000W/m², Cells Temperature 25°C)

Model Type	SNS-160	SNS-150	SNS-140	SNS-120
Nominal Maximum Power (P _{max})	: 160W	: 150W	: 140W	: 120W
Optimum Operating Voltage (V _{mp})	: 18.89V	: 18.18V	: 19.03V	: 18.71V
Optimum Operating Current (I _{mp})	: 8.47A	: 8.25A	: 7.36A	: 6.42A
Open Circuit Voltage (V _{oc})	: 22.64V	: 22.25V	: 22.72V	: 22.54
Short Circuit Current (I _{sc})	: 8.87A	: 8.67A	: 7.72A	: 6.7A
Module Efficiency (%)	: 16.45	: 15.14	: 16.07	: 15.49
Power Tolerance		: 0 to +6W		
Maximum System Voltage		: DC 1000V		
Operating Temperature		: -40C ~ +85C		
Maximum Series fuse Rating	: 10A	: 10A	: 10A	: 10A
Numbers of Bypass Diode	: 2	: 2	: 2	: 2



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MECHANICAL DATA	MODULE : 80W	MODULE : 75W	MODULE : 60W	MODULE : 50W	MODULE : 40W
Cell Type	: 78.37mm x 156.75mm	78.37mmx156.75mm	62mmx156.75mm	52.25mmx156.75mm	39x156mm.75mm
Cell Arrangement	: 36 Cells in series	36 Cells in series	36 Cells in series	36 Cells in series	36 cells in series
Dimensions	: 780 x 665 x 30mm	780 x 665 x 30	630 x 665 x 30	545 x 665 x 30	435 x 665 x 30
Weight	: 6.2kg	6.2kg	4.8kg	4.6kg	3.8kg
Front Cover	: 3.2 mm tempered glass	3.2mm tempered glass	3.2mm tempered glass	3.2mm tempered glass	3.2mm tempered glass
Frame Material	: Anodized Aluminium Alloy	Anodized Aluminium alloy	Anodized Aluminium alloy	Anodized Aluminium alloy	Anodized Aluminium alloy
J-Box	: IP65, 2 diodes	IP65 , 2 diodes	IP65 , 2 diodes	IP65 , 2 diodes	IP65 , 2 diodes

ELECTRICAL SPECIFICATION

Electrical parameters at standard test conditions (STC: AM=1.5, 1000W/m², Cells Temperature 25°C)

Model Type	SNS- 80W	SNS- 75W	SNS- 60W	SNS- 50W	SNS- 40W
Nominal Maximum Power (P _{max})	: 80W	75W	60W	50W	40W
Optimum Operating Voltage (V _{mp})	: 18.91V	18.45V	18.52V	18.43V	19.00V
Optimum Operating Current (I _{mp})	: 4.23A	4.06A	3.24A	2.71A	2.10A
Open Circuit Voltage (V _{oc})	: 22.68V	22.25V	22.32V	22.28V	22.68V
Short Circuit Current (I _{sc})	: 4.42A	4.34A	3.45A	2.88A	2.21A
Module Efficiency (%)	: 15.42	14.26	14.32	13.80	13.83
Power Tolerance	: 0 TO +2%				
Maximum System Voltage	: DC 600V				
Operating Temperature	: -40°C - +85°C				
Maximum Series fuse Rating	: 10A	10A	6A	6A	6A
Numbers of Bypass Diode	: 2	2	2	2	1



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-  PID and snail trails free
-  Excellent performance under low irradiance
-  Additional environmental tested for salt mist \ ammonia \ sand, Ensure performance in harsh environment
-  Power tolerance 0~+5w Guaranteed power output
-  Additional yield and easy maintenance with high transparent self-cleaning glass
-  2 times EL testing during manufacturing, defect-free modules

Industry leading module power output warranty.

International quality, safety and performance certifications

Manufacturing facility certified to ISO9001 quality management system standards

Beautiful appearance, good durability & easy installation

Special design in accordance with requirement of customers



25 Years Performance Warranty
05 years product warranty
10 years workmanship
10 years warranty for 90% minimum power output
25 years warranty for 80% minimum power output

*T&C Apply

Marketing Partner

- Solar Modules
- Charge Controllers
- AC Distribution Boards
- DC Distribution Boards
- EPC Services

IS 14286 / IEC 61215
IS / IEC 61730 (Part 1)
IS / IEC 61730 (Part 2)



R-91004502

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