

INDIA'S
PREMIUM QUALITY
SOLAR MANUFACTURER

3 GW
MODULE CAPACITY

2 GW
CELL CAPACITY*



SUN132P (610Wp-640Wp)

N-TOPCon
Bifacial Glass To Glass Module

2382x1134x30

Dimensions (mm)

132CELL **610Wp-640Wp**

Mono TOPCon

Power output

1500 VDC

Max. system voltage

23.60%

Max. efficiency



KEY FEATURES

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Higher Power Output
 Module power increases by 5-25% generally, bringing significantly lower LCOE and higher IRR. 0-5w positive tolerance output warranty.
- 

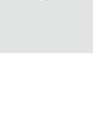
Optimal Choice for Ultra-large Power Plants
 Contribute to Lower BOS cost and LCOE.
- 

ZERO LID
 N-Type cell is characterized by "0" LID, which generates more power.
- 

PID Resistance
 Excellent Anti-PID performance guarantee via optimized mass-production process and material control.
- 

Durability Against Extreme Environmental Conditions
 High salt mist and ammonia resistance certified by TUV NORD. Lower temperature coefficient and operating temperature.
- 

More Outstanding Low-light Performance
 Higher power output even under low-light environments like on cloudy days
- 

Enhanced Mechanical Load
 Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).
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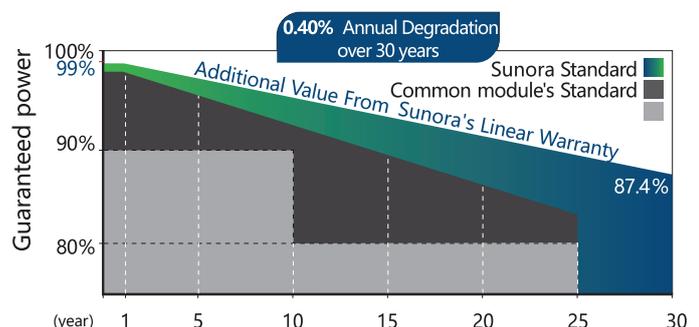
3 EL Full Inspection
 100% EL Inspection.

Comprehensive Products and System Certificates

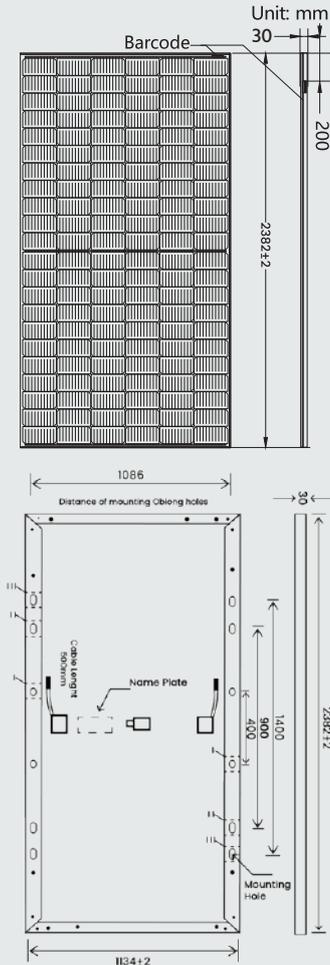
- IEC61215/IEC61730/IEC61701/IS14286/IEC61853-1/IEC62804-1
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO 27001: Information Security Management System
- GMP-Good Manufacturing Practices
- ISO 14064: Greenhouse Gases Emissions Verification
- OHSAS 18001: Occupational Health and Safety Management System

LINEAR PERFORMANCE WARRANTY

12-year product warranty / 30-year linear power warrant



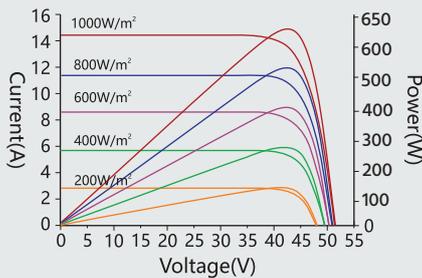
Dimensions of PV Module



SUN132P (610Wp-640Wp)

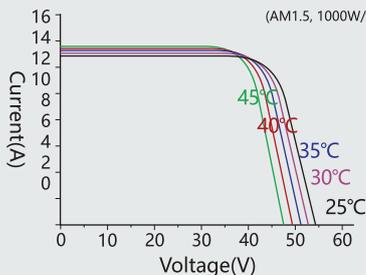
I-V characteristics at different irradiances

Cells temp. = 25°C



I-V characteristics at different temperatures

(AM1.5, 1000W/m²)



ELECTRICAL CHARACTERISTICS (STC*)

Rated Power in Watts-Pmax(Wp)	SUN132P610	SUN132P615	SUN132P620	SUN132P625	SUN132P630	SUN132P635	SUN132P640
Open Circuit Voltage-Voc(V)	49.00	49.30	49.60	49.90	50.20	50.50	50.80
Short Circuit Current-Isc(A)	15.86	15.90	15.94	15.98	16.02	16.06	16.10
Max. Power Voltage-Vmpp(V)	40.80	41.00	41.20	41.40	41.60	41.80	42.00
Max. Power Current-Impp(A)	14.96	15.00	15.05	15.15	15.20	15.25	15.30
Module Efficiency(%)	22.60	22.80	23.00	23.20	23.40	23.60	23.80
Maximum system voltage	1500 vdc						
Fuse Rating(A)	35A						
Temperature coefficient Pmax	-0.29%/°C						
Temperature coefficient Isc	+0.043%/°C						
Temperature coefficient Voc	-0.24%/°C						
Refer. Bifacial Factor	80%±5%						

*STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

WORKING CHARACTERISTICS (NOCT*)

Rated Power in Watts-Pmax(Wp)	466	470	473	476	479	482	485
Open Circuit Voltage-Voc(V)	46.50	46.80	47.10	47.40	47.70	48.00	48.30
Short Circuit Current-Isc(A)	12.78	12.81	12.84	12.87	12.90	12.93	12.96
Max. Power Voltage-Vmpp(V)	38.30	38.50	38.70	38.90	39.10	39.30	39.50
Max. Power Current-Impp(A)	12.16	12.21	12.23	12.24	12.26	12.28	12.30
Power tolerance	0~+3%						
NOCT	43°C±2°C						
Operating Temperature	-40°C~85°C						

*NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

Electrical characteristics with different rear side power gain

Pmax gain	10%	15%	20%	25%	30%	35%	40%
Pmax /W	677	707	732	763	793	823	853
Vmpp /V	41.00	41.00	41.00	41.00	41.00	41.00	41.00
Impp /A	16.50	17.25	18.00	18.75	19.50	20.25	21.00
Voc /V	49.30	49.30	49.30	49.30	49.30	49.30	49.30
Isc /a	17.49	18.29	19.08	19.88	20.68	21.48	22.28

The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

MECHANICAL CHARACTERISTICS

Number of cells	132pcs	Type of frame	Anodized Aluminum Alloy
Size of cell(mm)	182.2 X 105	Size of module(mm)	2382x1134x30
Type of cell	N-TOPCon Mono	Weight(kg)	34.5
Thickness of glass(mm)	2.0	Cables/connectors	4.0mm², MC4 compatible
Junction box	IP68	Length of Cabel	+300mm/-300mm(connector included)

PACKAGING CONFIGURATION

Height of Modules (mm)	35	30
Number of Modules Per Pallet	31	36
Packaging Box Dimensions (l×w×h) (mm)	2300×1120×1260	2300×1120×1260
Box Gross Weight (kg)	1084	1210
Number of Modules Per 40ft (HQ) Container	620	720
Number of Pallets Per 40ft (HQ) Container	20	20

Caution: Please read safety and installation instructions before using the product

*Warranty: As per Product warranty. Disclaimer: Sunora Solar reserves the right to make any adjustment to the information described here. Dataset contained in this specification do not from a representative of a single module data. @T&C Apply.

SUN144TXXX(XXX=570-600Wp)

N-TOPCon
Bifacial Monocrystalline Module

2279x1134x30

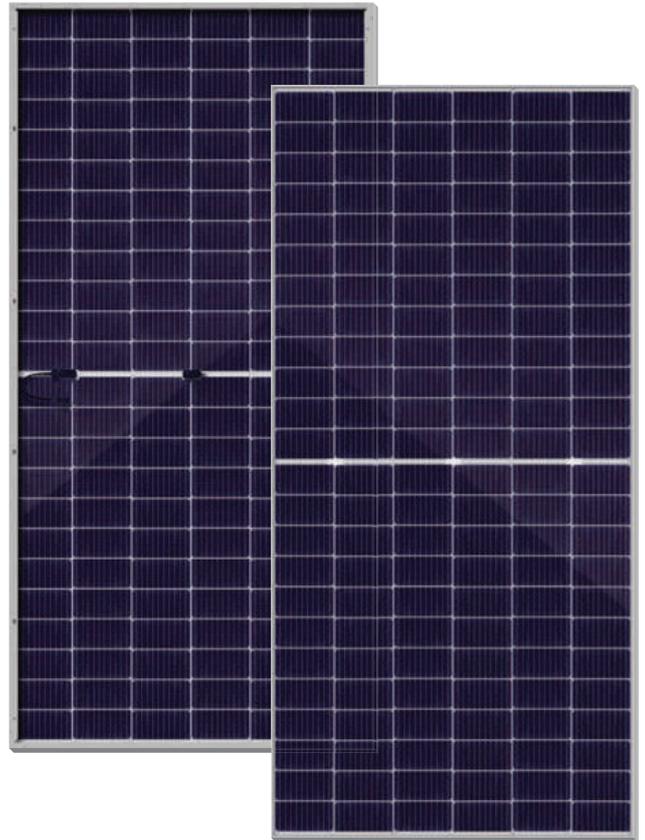
Dimensions (mm)

144 CELL **570-600Wp**

Mono TOPCon Power output

1500 VDC **22.83%**

Max. system voltage Max. efficiency



KEY FEATURES

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 Module power increases by 5-25% generally, bringing significantly lower LCOE and higher IRR. 0-5w positive tolerance output warranty.
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 Excellent Anti-PID performance guarantee via optimized mass-production process and material control.
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Durability Against Extreme Environmental Conditions
 High salt mist and ammonia resistance certified by TUV NORD. Lower temperature coefficient and operating temperature.
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More Outstanding Low-light Performance
 Higher power output even under low-light environments like on cloudy days
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Enhanced Mechanical Load
 Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).
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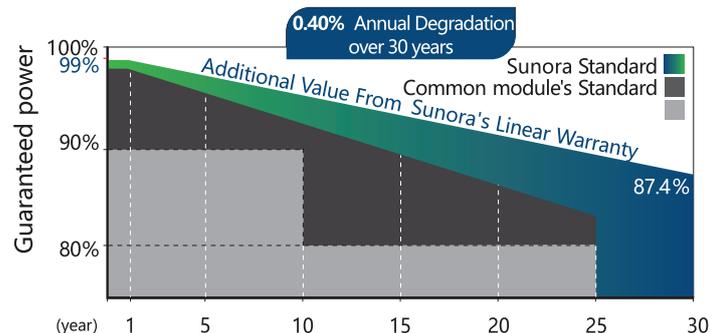
3 EL Full Inspection
 100% EL Inspection.

Comprehensive Products and System Certificates

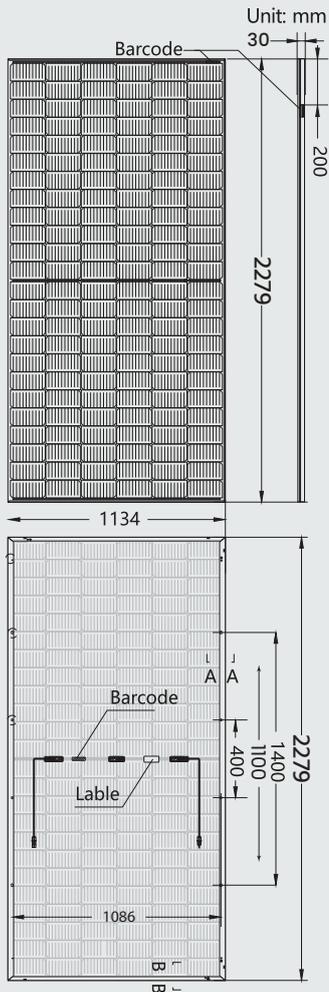
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- ISO 14064: Greenhouse Gases Emissions Verification
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LINEAR PERFORMANCE WARRANTY

12-year product warranty / 30-year linear power warrant

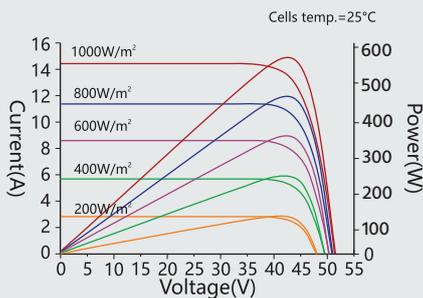


Dimensions of PV Module

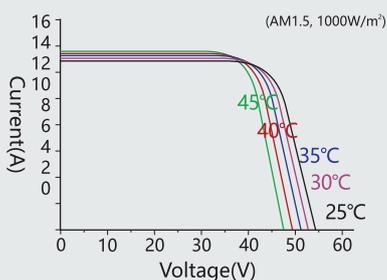


SUN144TXXX(XXX=Wp) (570Wp-600Wp)

I-V characteristics at different irradianations



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

Rated Power in Watts-Pmax(Wp)	SUN144T570	SUN144T575	SUN144T580	SUN144T585	SUN144T590	SUN144T600
Open Circuit Voltage-Voc(V)	51.07	51.27	51.47	51.67	51.87	52.27
Short Circuit Current-Isc(A)	14.25	14.31	14.37	14.43	14.49	14.61
Max. Power Voltage-Vmpp(V)	42.29	42.44	42.59	42.74	42.89	43.19
Max. Power Current-Impp(A)	13.48	13.55	13.62	13.69	13.76	13.90
Module Efficiency(%)	22.06	22.25	22.44	22.64	22.83	23.26
Maximum system voltage	1500 vdc					
Fuse Rating(A)	30					
Temperature coefficient Pmax	-0.3561%/ C					
Temperature coefficient Isc	0.0547%/ C					
Temperature coefficient Voc	-0.2853%/ C					
Refer. Bifacial Factor	80±5%					

*STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

WORKING CHARACTERISTICS (NOCT*)

Rated Power in Watts-Pmax(Wp)	428	431	435	439	443	452
Open Circuit Voltage-Voc(V)	48.52	48.71	48.90	49.09	49.28	49.65
Short Circuit Current-Isc(A)	11.40	11.45	11.50	11.54	11.59	11.80
Max. Power Voltage-Vmpp(V)	39.33	39.47	39.61	39.75	39.89	40.30
Max. Power Current-Impp(A)	10.78	10.84	10.90	10.95	11.01	11.18
Power tolerance	0~+3%					
NOCT	45°C±2°C					
Operating Temperature	-40°C~85°C					

*NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

Electrical characteristics with different rear side power gain

5%	Pmax(Wp)	599	604	609	614	620	632
	Efficiency(%)	22.75	22.55	22.35	22.14	21.94	24.37
15%	Pmax(Wp)	656	661	667	673	679	691
	Efficiency(%)	24.92	24.70	24.47	24.25	24.03	24.37
25%	Pmax(Wp)	713	719	725	731	738	752
	Efficiency(%)	27.09	26.84	26.60	26.36	26.12	29.02

The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

MECHANICAL CHARACTERISTICS

Number of cells	144pcs	Type of frame	Anodized Aluminum Alloy
Size of cell(mm)	182.2 x 91/91.8	Size of module(mm)	2279×1134×30
Type of cell	N-TOPCon Mono	Weight(kg)	33
Thickness of glass(mm)	2.0	Cables/connectors	4.0mm ² , MC4 compatible
Junction box	IP68	Length of Cabel	+300mm/-300mm(connector included)

PACKAGING CONFIGURATION

Height of Modules (mm)	35	30
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PRODUCT BY

ON-GRID INVERTER

Range From 2.3kW-110kW



Single Phase ON GRID
2.3 kW – 6 kW

- Power-Export limitation function
- LCD Display
- Wi-fi/GPRS/Lan Communication Optional
- Smart Cooling Fan
- Compact & Easy to install

- Max. efficiency up to 99.9%
- Feed-in limitation function
- Natural cooling, with fans-low noise
- Sic Power Components
- IP66 with C5 Anti Corrosion Rating
- Two MPPTs with 150% DC overload



Three Phase ON GRID
4 kW – 15 kW



Three Phase ON GRID
18 kW – 25 kW

- Type II Ac/Dc Surge Protection
- Smart & Efficient Grid Integration
- Regular Firmware Update
- Smart IV Curve Scanning
- Smart Management

- 99.8% Efficiency
- Smart & Efficient Grid Integration
- Optimize For Every Climate
- Integrated Anti PID Components



Three Phase ON GRID
30kW – 50kW



Three Phase ON GRID
80kW - 110kW

-  Dedicated Cooling System
-  3 Layer Waterproof Design
-  Early Fault Detection
-  WI-FI / GPRS

HYBRID INVERTER

Range From 3kW-13kW

-  Smart Protection System
-  Ip65 Water & Dust Resistant
-  Direct Mode Operation
-  Low Maintenance
-  Smart Energy Management
-  Compact & Modern design



HYBRID SINGLE PHASE
3kW - 6kW



HYBRID THREE PHASE
5kW - 13kW

-  3- ϕ Power Optimization
-  Advance Energy Management
-  High Conversion Efficiency
-  Optimized for Higher Loud
-  Dual Mode Operation



SUNORA[®]

SOLAR

📍 Corporate Office :

365/366, Laxmi Enclave-2, Katargam, Surat, Gujarat - 395004.

📍 Manufacturing Unit 1

BL No. 2281/2/1/1, Near Salasar Minor Canal, Village- Tadkeshwar,
Taluka-Mandvi, Surat, Gujarat-394 170.

📍 Manufacturing Unit 2

BL NO. 73-74 Near PP Savani University, Village - Nandav,
Kim Ankleshwar Highway, Taluka - Mangrol, Surat, Gujarat, India.



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FOR MORE INFO