

SUN120TXXX(XXX=460-490Wp)

N-TOPCon

Bifacial Monocrystalline Module

1906x1134x35/30

Dimensions (mm)

120 CELL

Mono TOPCon

460-490Wp

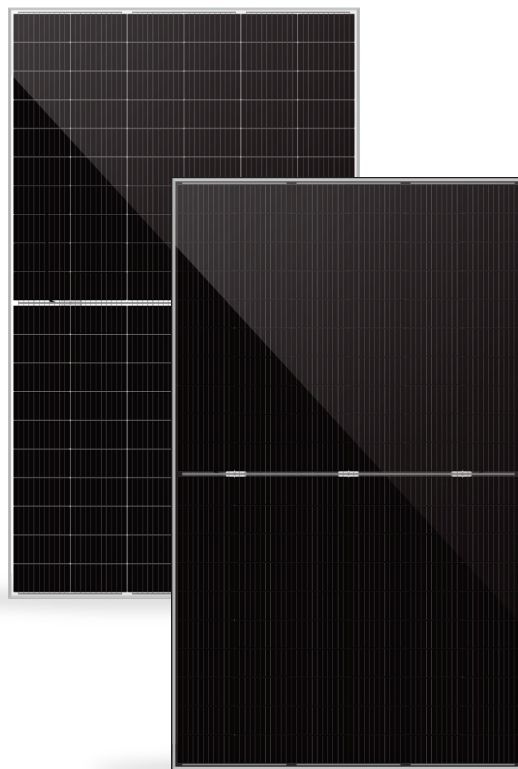
Power output

1500 VDC

Max. system voltage

22.67%

Max. efficiency



KEY FEATURES



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).



EL Full Inspection

Dual-stage 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

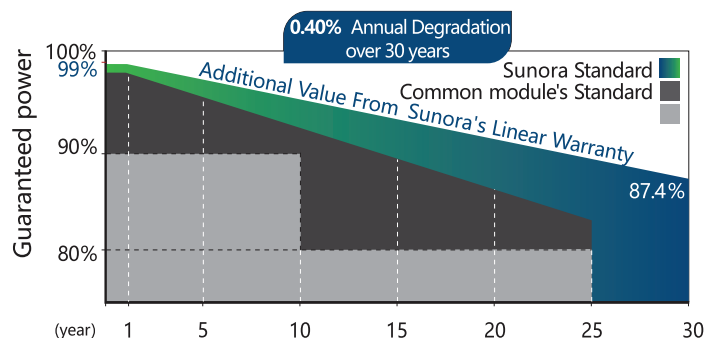
GMP-Good Manufacturing Practices

ISO 14064: Greenhouse Gases Emissions Verification

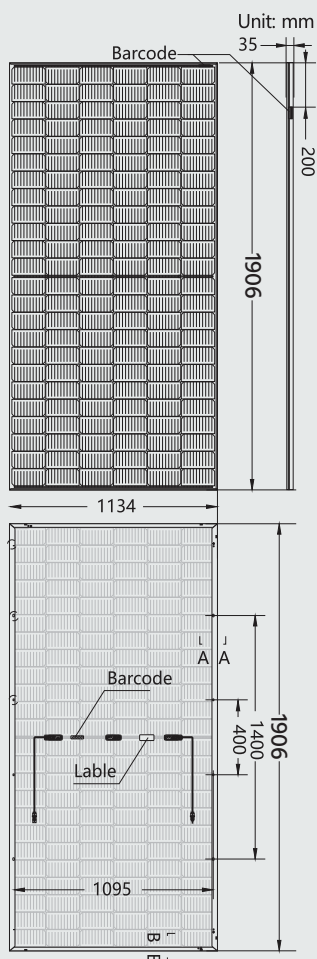
OHSAS 18001: Occupational Health and Safety Management System

LINEAR PERFORMANCE WARRANTY

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

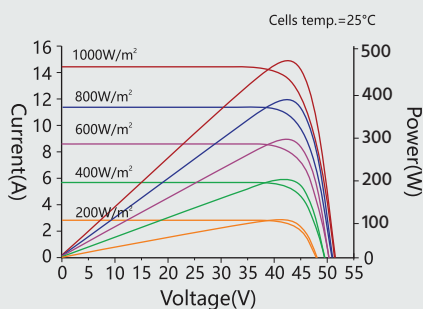


Dimensions of PV Module

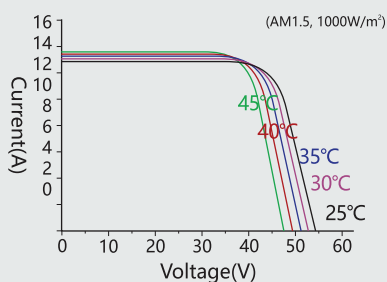


SUN120TXXX(XXX=Wp) (460Wp-490Wp)

I-V characteristics at different irradiances



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

Rated Power in Watts-Pmax(Wp)	SUN120T460	SUN120T470	SUN120T480	SUN120T485	SUN120T490
Open Circuit Voltage-Voc(V)	41.6	44.86	45.06	45.16	45.26
Short Circuit Current-Isc(A)	13.72	13.04	13.59	13.68	13.74
Max. Power Voltage-Vmpp(V)	35.35	37.46	37.84	37.98	38.12
Max. Power Current-Impp(A)	13.02	12.56	12.7	12.78	12.86
Module Efficiency(%)	21.28	21.75	22.21	22.44	22.67
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)	345	353	360	364	368
Open Circuit Voltage-Voc(V)	39.52	42.62	42.81	42.90	43.00
Short Circuit Current-Isc(A)	10.98	10.72	10.87	10.94	10.99
Max. Power Voltage-Vmpp(V)	32.88	34.84	35.19	35.32	35.45
Max. Power Current-Impp(A)	10.42	10.05	10.16	10.22	10.29
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)	483	494	504	509	515
	Efficiency(%)	23.80	23.56	23.32	22.83	22.35
15%	Pmax(Wp)	529	541	552	558	564
	Efficiency(%)	26.07	25.80	25.54	25.01	24.47
25%	Pmax(Wp)	575	588	600	606	613
	Efficiency(%)	28.34	28.05	27.76	27.18	26.60

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	120pcs	Type of frame	Anodized Aluminum Alloy
Size of cell(mm)	182×91	Size of module(mm)	1906x1134x35
Type of cell	N-TOPCon Mono	Weight(kg)	27
Thickness of glass(mm)	2.2	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

PRODUCT BY



MAKE IN INDIA

Office:

Office No. 365,366, Laxmi Enclave-2, Opp. Gajera School, Katargam, Surat, Gujarat - 395004

Factory:

BL No. 2281/2/1/1, Sub Plot. 1-A, Near Areth Minnor Canal, Village - Tadkeshwar, Ta - Mandvi, Surat, Gujarat, 394170