

BIFACIAL-N TOPCON 144 CELLS (DUAL GLASS) 560W-590W NOVA - 144 TGG (XXX: 560-590Wp)



N - Type with very low LID
Resulting in higher power generation



Positive Tolerance
Power output is guaranteed with a positive tolerance of 0~+4.99Wp



Better temperature coefficient (-0.30%/ $^{\circ}$ C)
higher power generation under higher ambient temperature conditions



Higher Module Efficiency Module Eff. Up-to 22.8%



**Advanced Technology MBB - MULTI BUS -BAR(16BB)
HALF-CUT N-TOPCON CELL**



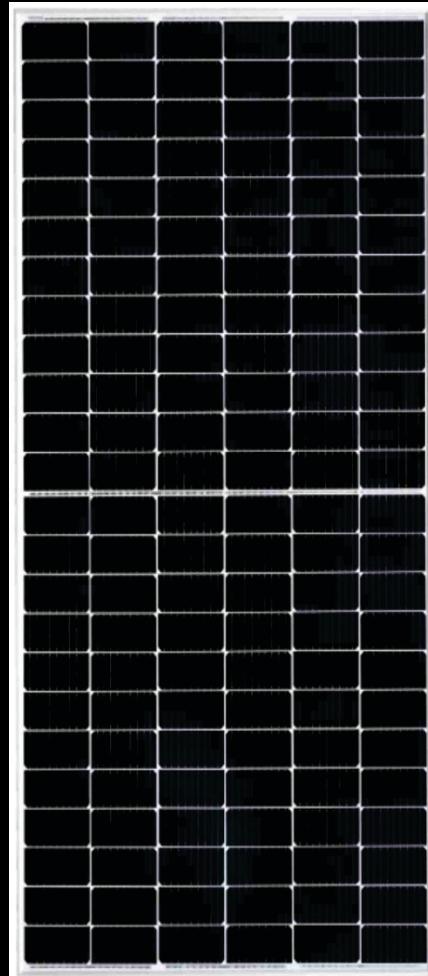
EXTENDED WIND AND SNOW LOADS
Wind Load (2400Pascal)
Snow Load (5400Pascal)



Withstanding a harsh environment
Reliable quality leads to better sustainability, even in harsh environments such as deserts, Farms, coastal and the areas with ammonia exposure



Rigorous Testing Criteria
100% EL inspection, ensures defect-free modules



30 Years
Performance
Warranty¹

Power
Tolerance
up to
4.99W

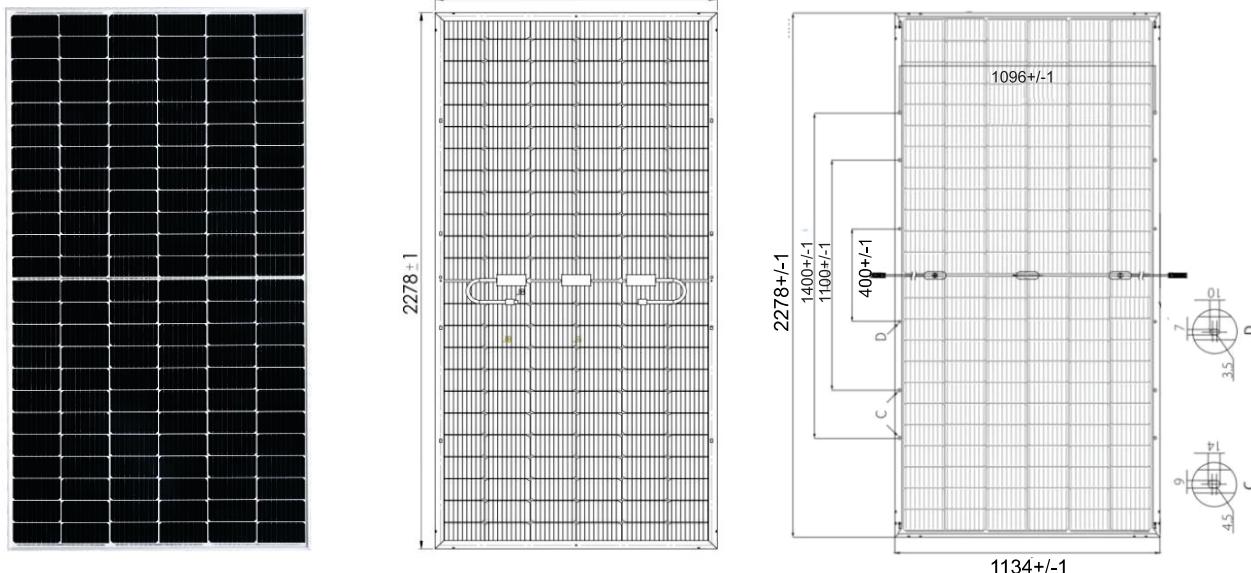
PID
Resistant

12 Years
Product
Warranty¹



ALMM Approved.

*All certifications under test



ELECTRICAL DATA PERFORMANCE

Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power, Pmax (Wp)	W	560	421	565	425	570	429	575	432	580	436	585
Voltage at Maximum power, Vmp	V	42.41	40.20	42.53	40.32	42.65	39.69	42.82	39.89	42.94	39.98	43.06
Current at maximum power, Imp	A	13.22	10.47	13.3	10.54	13.37	10.80	13.43	10.84	13.51	10.91	13.59
Open circuit voltage, Voc	V	50.68	48.04	50.86	48.22	51.04	48.39	51.22	48.56	51.41	48.74	51.59
Short circuit current, Isc	A	13.88	11.21	13.96	11.27	14.04	11.34	14.10	11.38	14.19	11.46	14.26
Fill Factor	%	80%	78%	80%	78%	80%	78%	80%	78%	80%	78%	80%
Module Efficiency (%)		21.68%	21.87%		22.07%		22.26%		22.45%		22.65%	22.84%
Operating Temperature (°C)		-40°C~+85°C			Temperature coefficients of Isc						+0.046%/°C	
Maximum system voltage		1500 VDC			Nominal operating cell temperature (NOCT)						45±2°C	
Maximum series fuse rating		30A			Fire Safety						Class-C	
Power tolerance (Wp)		0~+3%			Protection Class II						Class-A	
Temperature coefficients of Pmax		-0.30%/°C			Safety Class						Class-II	
Temperature coefficients of Voc		-0.26%/°C										

200W/m² as per IEC 60904-1.

**STC: Irradiance 1000W/m² module temperature 25°C, AM =1.5; NOCT: Irradiance 800W/m², ambient temperature 20°C, AM=1.5, Wind Speed 1m/s. Average power reduction of 4.5% at

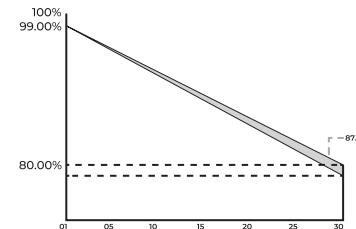
Linear Performance warranty

Product Warranty 12 Years

Material & Processing First Year

Degradation up to 90% for 10Years

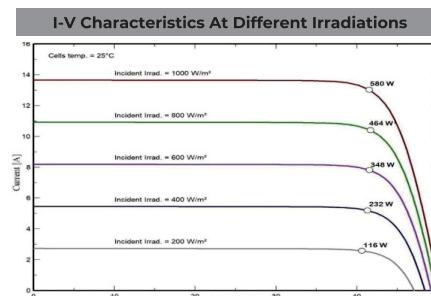
80% up to balance 20 Years



MODULE MECHANICAL DATA

SPECIFICATION DATA

Cell Type	N-TOPCon, 144 Cells
Dimensions	2278x1134x30 mm
Weight	32 Kgs
Front Cover	2.00 mm
Rear Cover	2.00 mm
Frame Material	"Silver Anodized Aluminum Profile,
J-Box	IP68, 3 diodes
Cable	350 mm, 4 mm ²
Connectors	Mc4 Compatible Connector
Standard Packaging	36 Pieces/Pallet
Module Pieces per Container	720 pieces (40*HQ)



www.orientsolar.com

