

RANGER

KSHC-144 M N-Type



144 cells

N-TOPCon
Monocrystalline

22,7%

Maximum
Efficiency

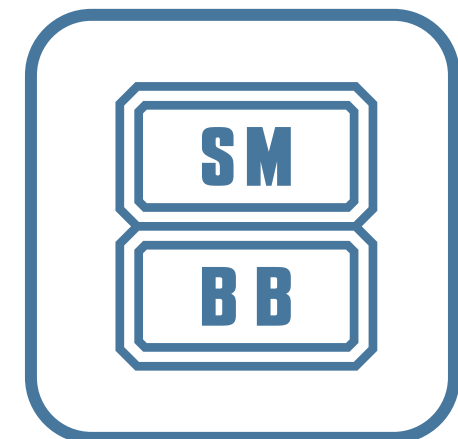
0~+3%

Positive Power
Tolerance

565-585

Peak Power
Range

SMBB Technology



Better light trapping and current collection to improve module power output and reliability.

Excellent weak light performance

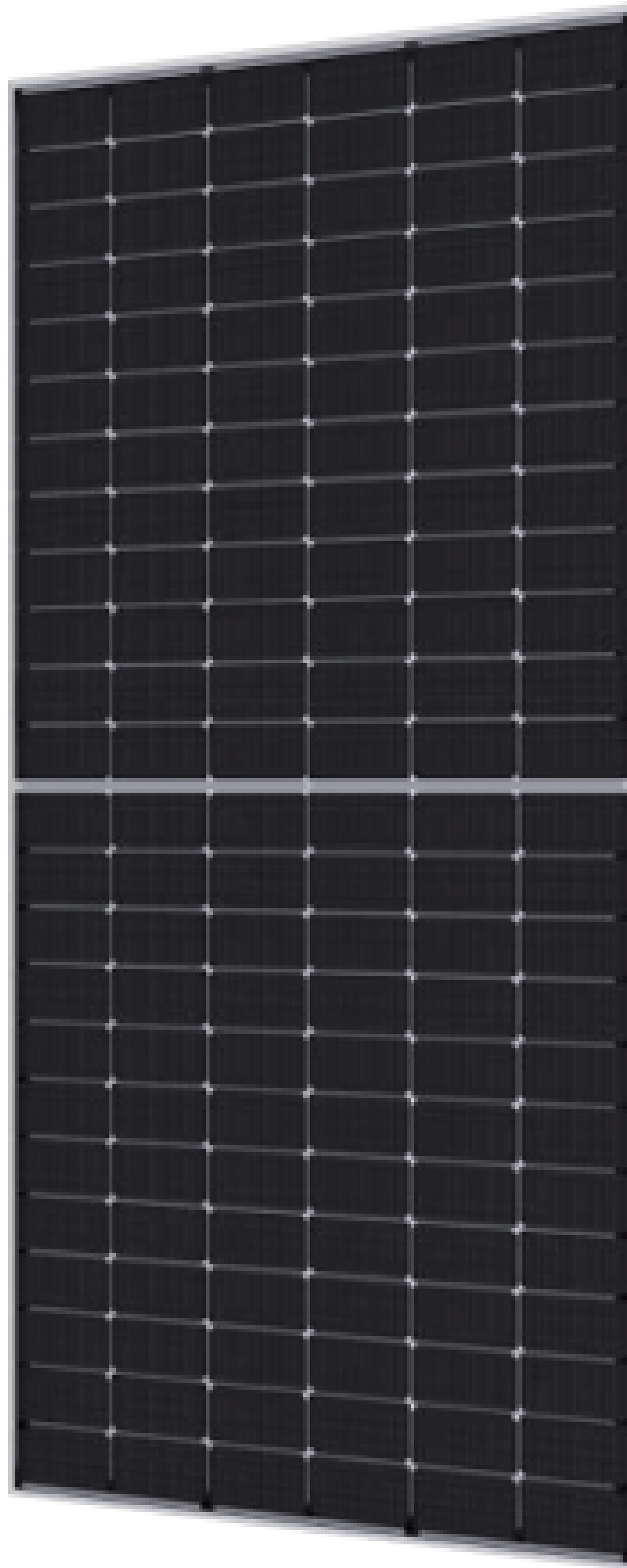


More power output in weak light condition, such as cloudy, morning and sunset.

PID Resistance

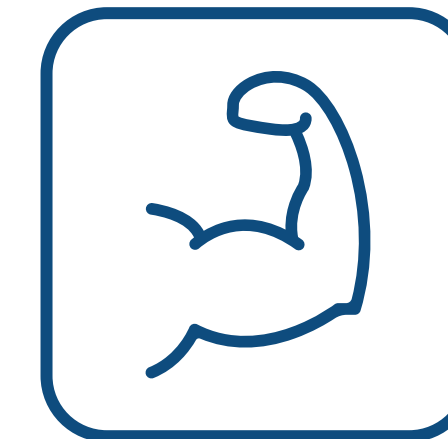


Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



Extended wind and snow load tests

Module certified to withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal).



Lower LCOE

Higher bifaciality, higher power output and lower BOS cost.

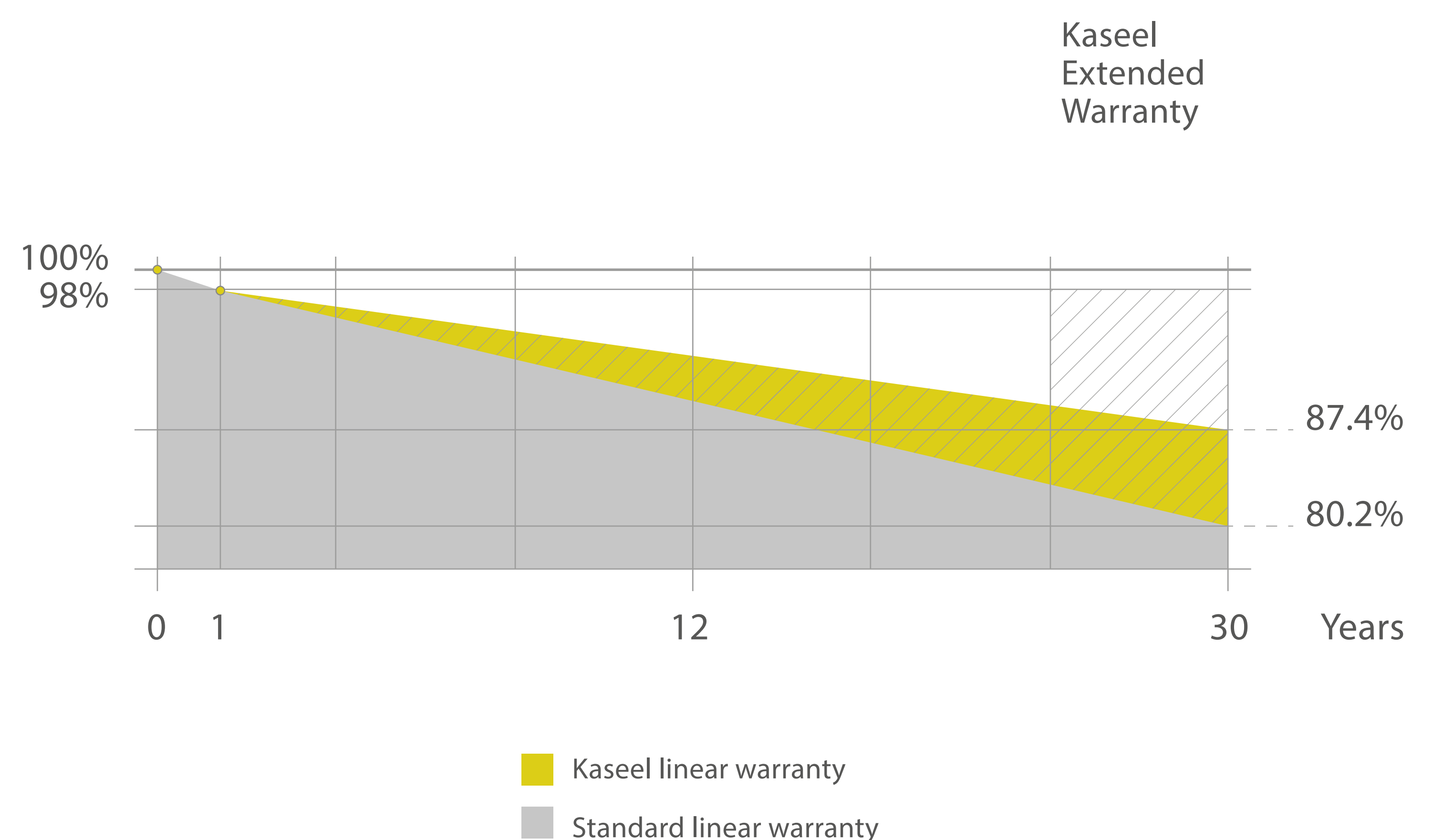
SPECIAL WARRANTY



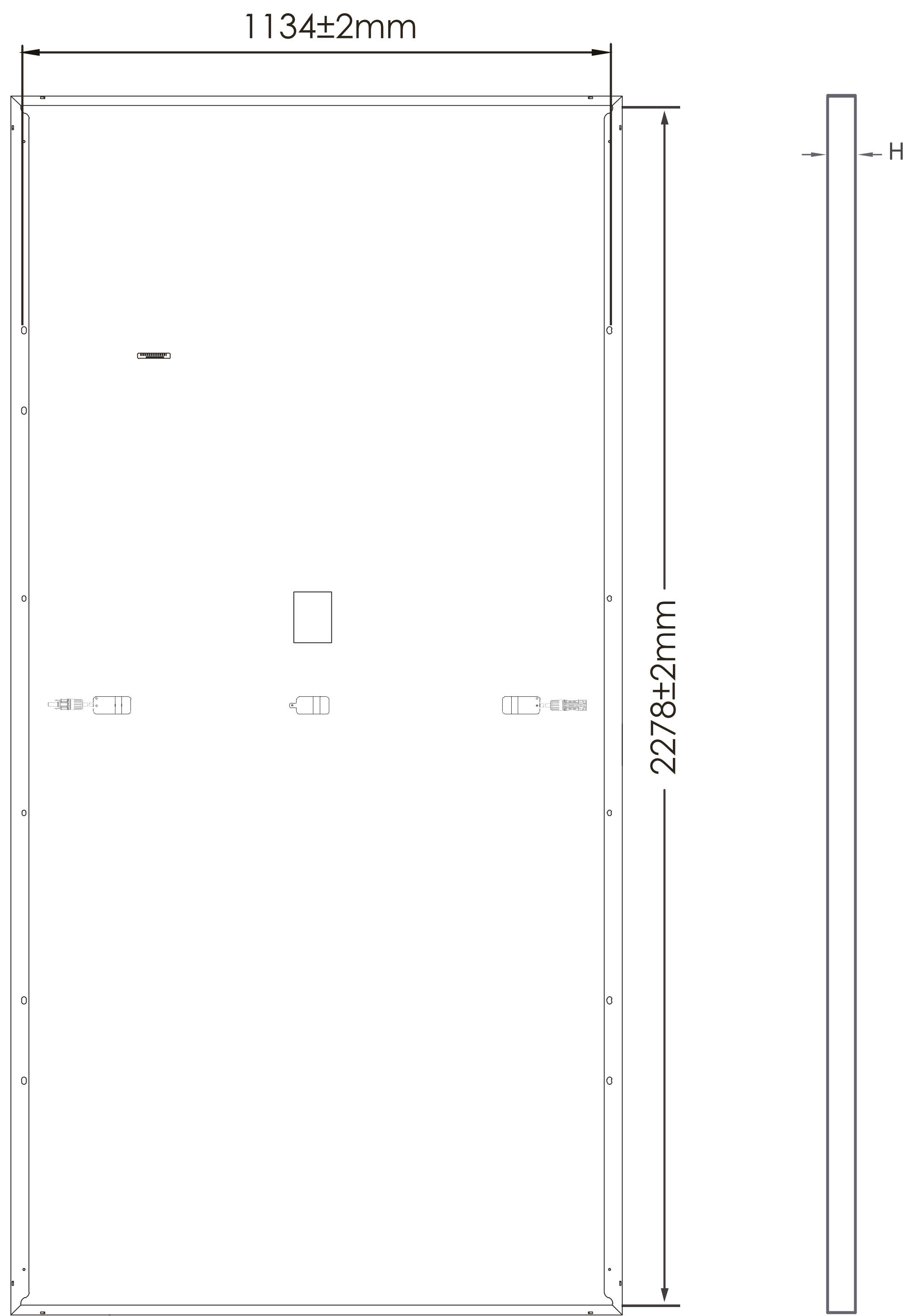
Linear
warranty



Product
warranty



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Cell type	N TOPCon Monocrystalline	
Number of cells	144 (6x24)	
Module dimensions	2278*1134*35mm (89.69*44.65*1.38inches)	
Weight	28kg (61.73lbs.)	
Front cover	3.2mm (0.13inches) AR Coating Tempered Glass	
Frame	Anodized Aluminium Alloy	
Junction box	IP68	
Cable	TUV: 4 mm ² (0.006inches ²)/UL: 12AWG	
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2	
Operating Temperature	-40°C ~ +85°C	
Maximum System Voltage	1000V/1500V DC (IEC)	
Snow / Wind	II	
Maximum Series Fuse Rating	25A	

TEMP. CHARACTERISTICS

Nominal Operating Cell Temperature	45°C ±2°C
Temperature Coefficients of Pmax	-0.30%/°C
Temperature Coefficients of VOC	-0.25%/°C
Temperature Coefficients of ISC	0.046%/°C

PACKAGING

Standard packaging	31 pcs/carton
Module quantity per 40' container	620 pcs/40hq

ELECTRICAL CHARACTERISTICS AT STC

Nominal Power (Pmax)	565W	570W	575W	580W	585W
Open Circuit Voltage (VOC)	50.6V	50.7V	50.9V	51.0V	51.2V
Short Circuit Current (ISC)	14.23A	14.31A	14.39A	14.47A	14.55A
Voltage at Nominal Power (Vmp)	41.9V	42.1V	42.2V	42.4V	42.5V
Current at Nominal Power (Imp)	13.48A	13.55A	13.62A	13.69A	13.76A
Module efficiency(%)	21.9	22.1	22.3	22.5	22.7

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5

ELECTRICAL CHARACTERISTICS NOCT

Nominal Power (Pmax)	425W	429W	432W	436W	440W
Open Circuit Voltage (VOC)	48.1V	48.2V	48.3V	48.5V	48.6V
Short Circuit Current (ISC)	11.49A	11.55A	11.62A	11.68A	11.75A
Voltage at Nominal Power (Vmp)	39.4V	39.5V	39.6V	39.7V	39.8V
Current at Nominal Power (Imp)	10.79A	10.85A	10.92A	10.99A	11.05A

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

CURVES

