

N⁺SERIES

SUN182THCD430/435-54

BIFACIAL MODULE

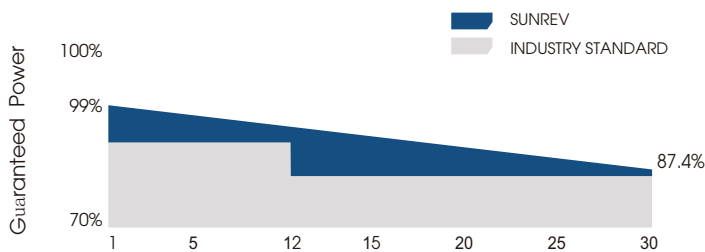
N-Type

IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality management system

ISO 14001:2015: Environment System

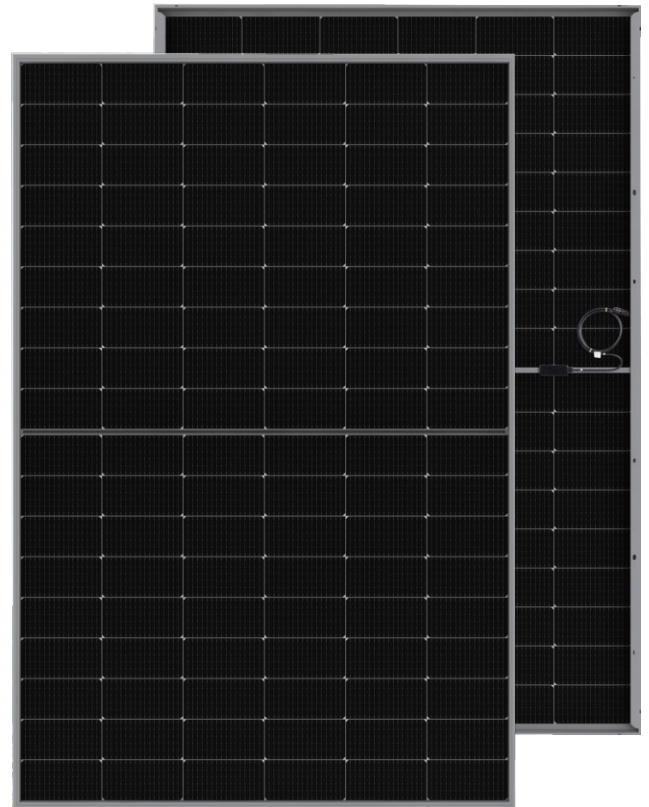
ISO 45001:2018: Occupational health management systems



12-Year Warranty for Materials and Processing

30-Year Warranty for Extra Linear Power Output

0.40% Annual Degradation Over 30 years



PRODUCT FEATURES



SMBB Technology Half Cut Topcon Cell

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



Excellent Low-light Performance

Better performance under shading effect.



HOT 2.0 Technology

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

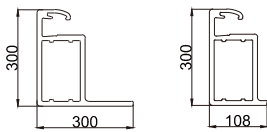
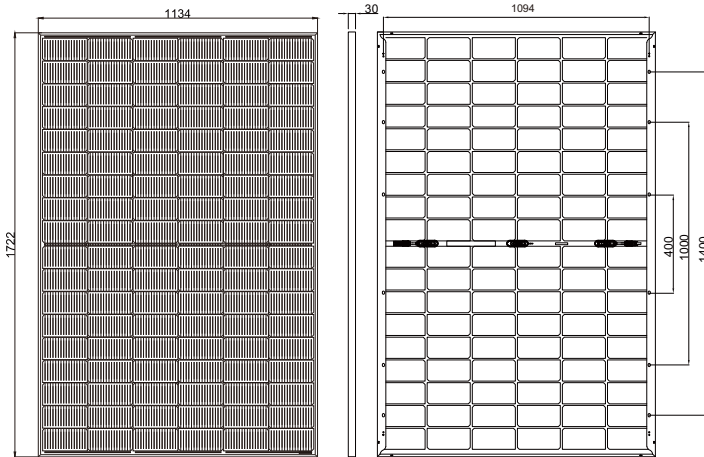


Enhanced Mechanical Load

Certified to withstand: wind load (2400Pa) and snow load (5400Pa).



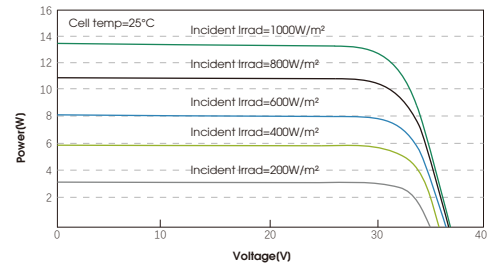
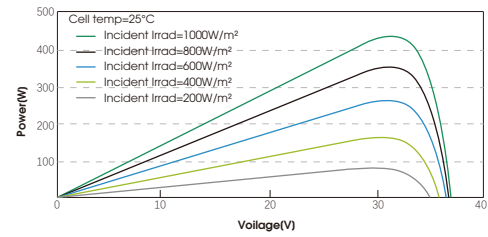
Drawing Information



Packaging Configuration

Per Pallet	36 Pcs	
Container	20'GP	40'HQ
Pcs/Container	216	936

I-V Curve



Mechanical Parameters

Cell Type	N type Mono-crystalline
No. of cells	108(6x18)
Dimensions	1722×1134×30mm
Weight	25.5kg
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminum Alloy Frame
Junction Box	IP68 Rated / 3 Diodes
Output Cables	4.0mm ² /+300mm -300mm, or Customized Length
Connector	Zerun Co., Ltd. Z4S-abcde, IP68
Fire Rating	Class C

ELECTRICAL PARAMETERS

Module Type	SUN182THCD430-54	SUN182THCD435-54
Power Sorting	0~+5W	
Maximum Power(Pmax/W±3%)	430	435
Maximum Power Voltage(Vmp/V)	31.86	31.98
Maximum Power Current(Imp/A)	13.50	13.60
Open-circuit Voltage(Voc/V±3%)	38.51	38.63
Short-circuit Current(Isc/A±3%)	14.23	14.28
Module Efficiency(%)	22.02%	22.28%
Operating Temperature(°C)	-40°C ~ +70°C	
Maximum system voltage	DC1500V	
Maximum series fuse rating	25A	
Power tolerance	±3%	
Temperature coefficients of Pmax	-0.25%/°C	
Temperature coefficients of Voc	-0.29%/°C	
Temperature coefficients of Isc	0.04%/°C	
Nominal operating cell temperature(NOCT)	45±2°C	

*STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5

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