

N⁺ SERIES

SUN182THC580/585-72

MONO-FACIAL MODULE

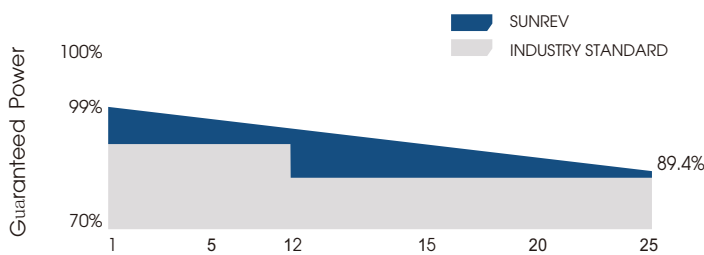
N-Type

IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality management system

ISO 14001:2015: Environment System

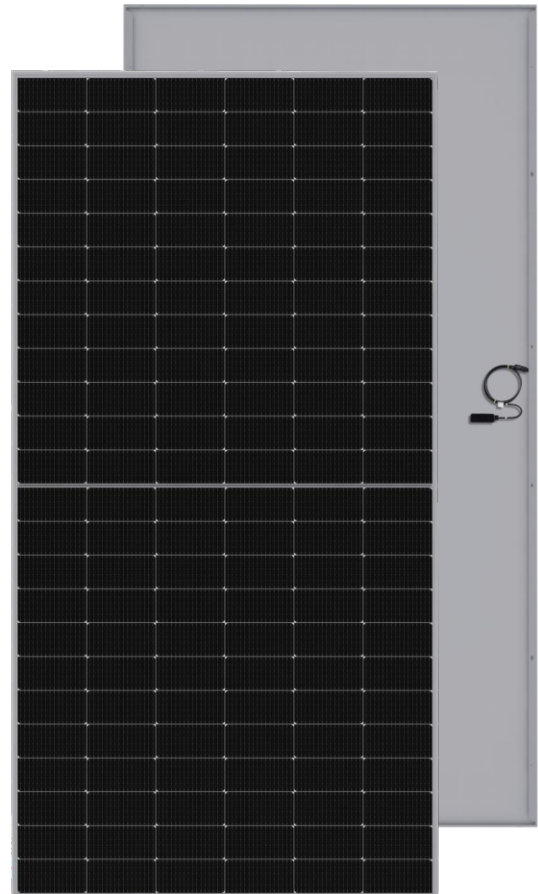
ISO 45001:2018: Occupational health management systems



12-Year Product Warranty

25-Year Linear Performance Warranty

0.4% Annual Degradation Over 25 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

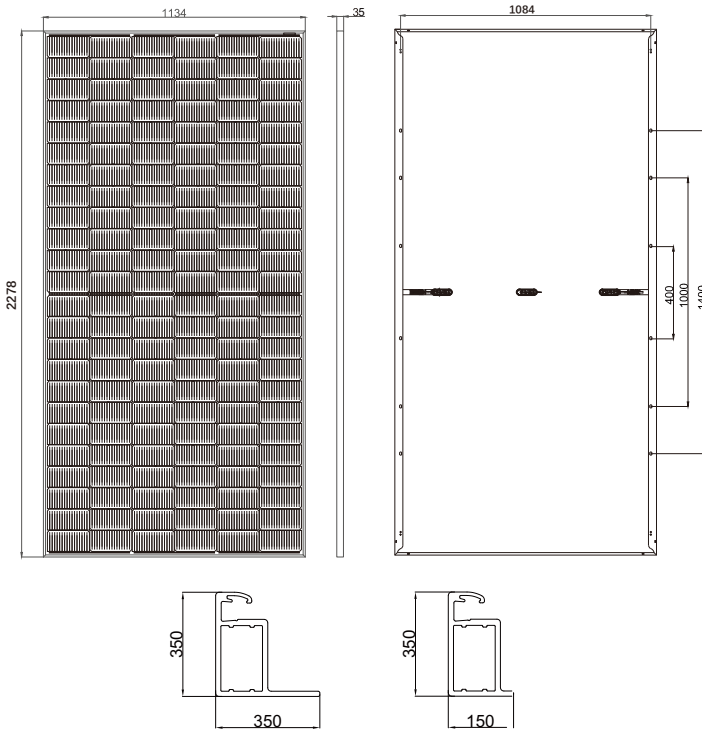


Enhanced Mechanical Load

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



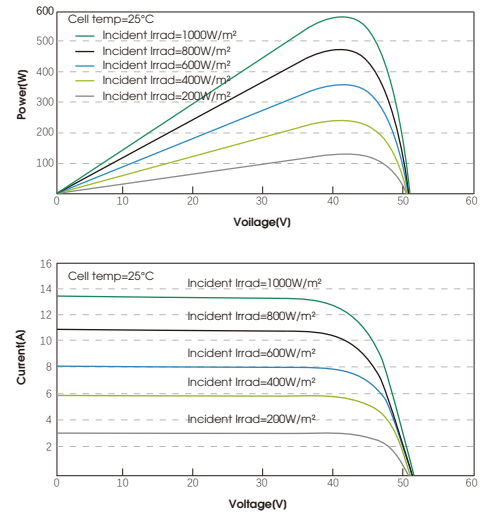
Drawing Information



Packaging Configuration

Per Pallet	31 Pcs	
Container	20'GP	40'HQ
Pcs/Container	155	720

I-V Curve



Mechanical Parameters

Cell Type	N type Mono-crystalline
No. of cells	144(6x24)
Dimensions	2278×1134×35mm
Weight	28kg
Front Glass	3.2mm Toughened Glass
Back sheet	white
Frame	Anodized Aluminum Alloy Frame
Junction Box	IP68 Rated / 3 Diodes
Output Cables	4.0mm²/+300mm -300mm, or Customized Length
Connector	Zerun Co.,Ltd. Z4S-abcde,IP68
Fire Rating	Class C

ELECTRICAL PARAMETERS

Module Type	SUN182THC580-72	SUN182THC585-72
Power Sorting	0~+5W	
Maximum Power(Pmax/W±3%)	580	585
Maximum Power Voltage(Vmp/V)	42.69	42.75
Maximum Power Current(Imp/A)	13.59	13.68
Open-circuit Voltage(Voc/V±3%)	51.67	51.76
Short-circuit Current(Isc/A±3%)	14.37	14.41
Module Efficiency(%)	22.45%	22.65%
Operating Temperature(°C)	-40°C~+70°C	
Maximum system voltage	DC1500V	
Maximum series fuse rating	25A	
Power tolerance	0±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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