

S⁺ SERIES

SUN182MHCD550/555-72

BIFACIAL MODULE

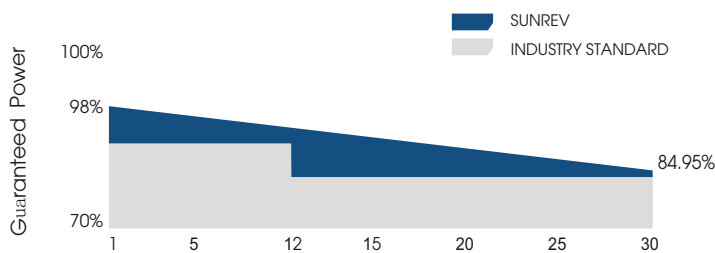
PERC-Type

IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality management system

ISO 14001:2015: Environment System

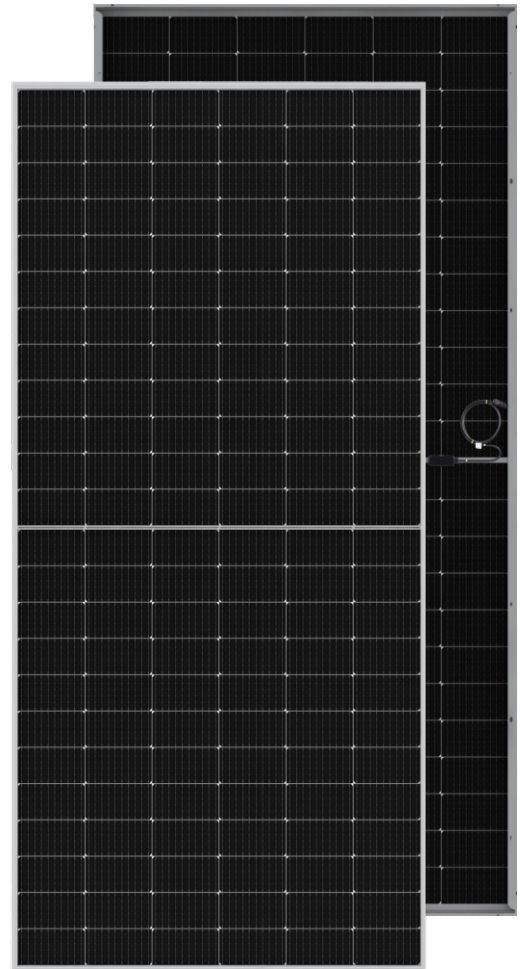
ISO 45001:2018: Occupational health management systems



12-Year Warranty for Materials and Processing

30-Year Warranty for Extra Linear Power Output

0.45% Annual Degradation Over 30 years



PRODUCT FEATURES



MBB PERC Half Cut Cell

Higher power generation with multi-busbar and half-cut technology.



Enhanced Mechanical Load

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



Excellent Low-light Performance

Better performance under shading effect.

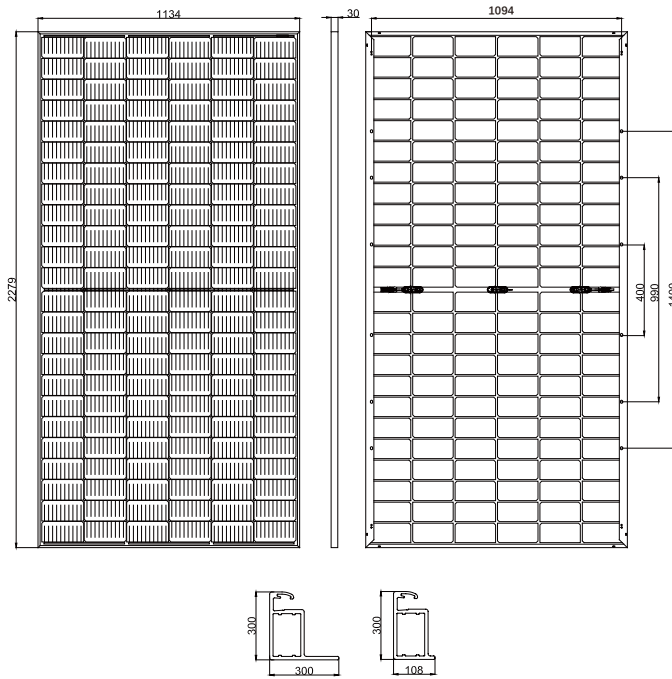


High Reliability

Guaranteed $\pm 3\%$ positive tolerance secures reliable power output. Optimized electrical design lowers hot spot risk and operating current.



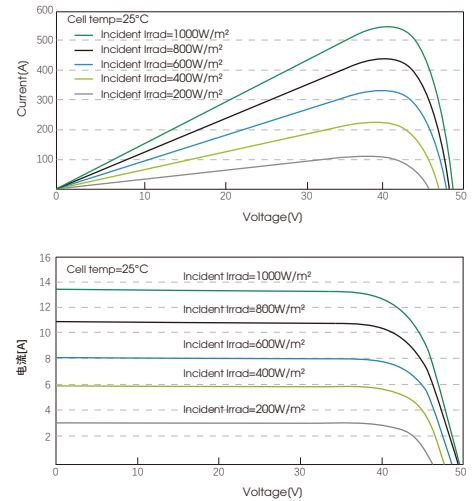
Drawing Information



Packaging Configuration

Per Pallet	36 Pcs	
Container	20'GP	40'HQ
Pcs/Container	180	720

I-V Curve



Mechanical Parameters

Cell Type	PERC type Mono-crystalline
No. of cells	144(6x24)
Dimensions	2279×1134×30mm
Weight	32kg
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	4.0mm²/+300mm -300mm, or Customized Length
Connector	Zerun Co., Ltd. Z4S-abcde, IP68
Fire Rating	Class C

ELECTRICAL PARAMETERS

Module Type	SUN182MHCD550-72	SUN182MHCD555-72
Power Sorting	0~+5W	
Maximum Power(Pmax/W±3%)	550	555
Maximum Power Voltage(Vmp/V)	41.33	41.48
Maximum Power Current(Imp/A)	13.31	13.39
Open-circuit Voltage(Voc/V±3%)	49.83	50.08
Short-circuit Current(Isc/A±3%)	13.80	13.81
Module Efficiency(%)	21.28%	21.48%
Operating Temperature(°C)	-40°C~+70°C	
Maximum system voltage	DC1500V	
Maximum series fuse rating	30A	
Power tolerance	±3%	
Temperature coefficients of Pmax	-0.28%/°C	
Temperature coefficients of Voc	-0.35%/°C	
Temperature coefficients of Isc	0.05%/°C	
Nominal operating cell temperature(NOCT)	45±2°C	

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

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