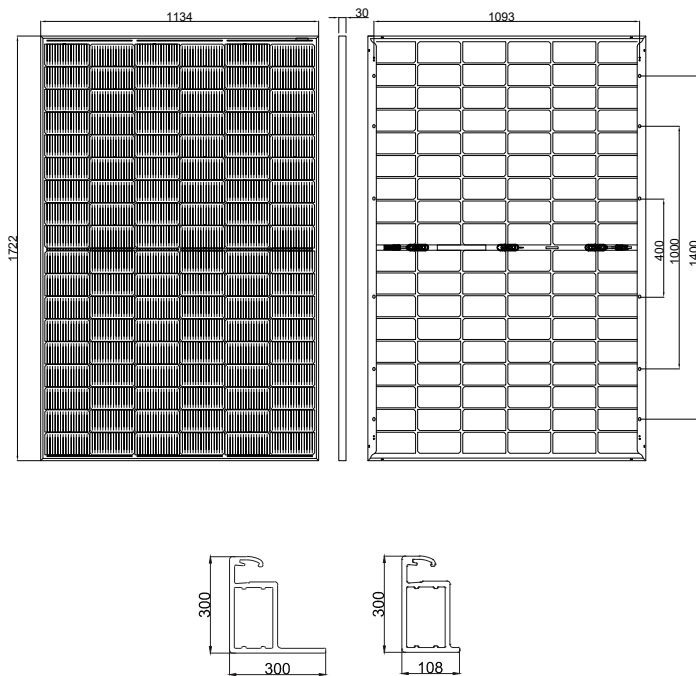


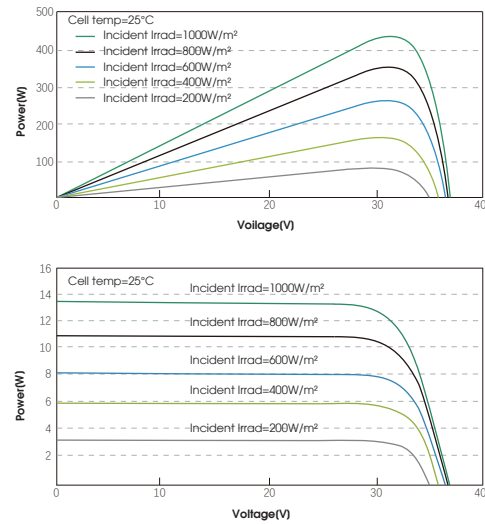
Drawing Information



Packaging Configuration

Per Pallet	36 Pcs	
Container	20'GP	40'HQ
Pcs/Container	144	648

I-V Curve



Mechanical Parameters

Cell Type	N type Mono-crystalline
No. of cells	108(6x18)
Dimensions	1722x1134x30mm
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	4.0mm²/+450mm -250mm, or Customized Length

ELECTRICAL PARAMETERS

Module Type	182THCD410-54		182THCD415-54		182THCD420-54		182THCD425-54		182THCD430-54	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	410	307	415	312	420	316	425	320	430	324
Maximum Power Voltage(Vmp/V)	31.23	29.04	31.38	29.21	31.54	29.36	31.69	29.68	31.86	29.68
Maximum Power Current(Imp/A)	13.13	10.57	13.24	10.68	13.33	10.76	13.41	10.92	13.50	10.92
Open-circuit Voltage(Voc/V)	37.87	35.93	38.03	36.09	38.19	36.25	38.35	36.57	38.51	36.57
Short-circuit Current(Isc/A)	14.03	11.24	14.12	11.30	14.13	13.36	14.18	11.48	14.23	11.48
Module Efficiency(%)	21.00%		21.30%		21.50%		21.80%		22.00%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	DC 1000V/1500V									
Maximum series fuse rating	25A									
Power tolerance	0~+5W									
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

*NOCT: Irradiance 800W/m²

Cell Temperature 25°C

AM=1.5

Wind Speed 1m/s



N⁺ SERIES

SUN182THCDxxx-54 410-430 Watt

BIFACIAL MODULE

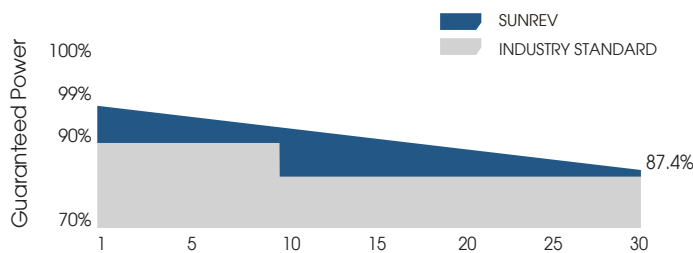
N-Type

IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality management system

ISO 14001:2015: Environment System

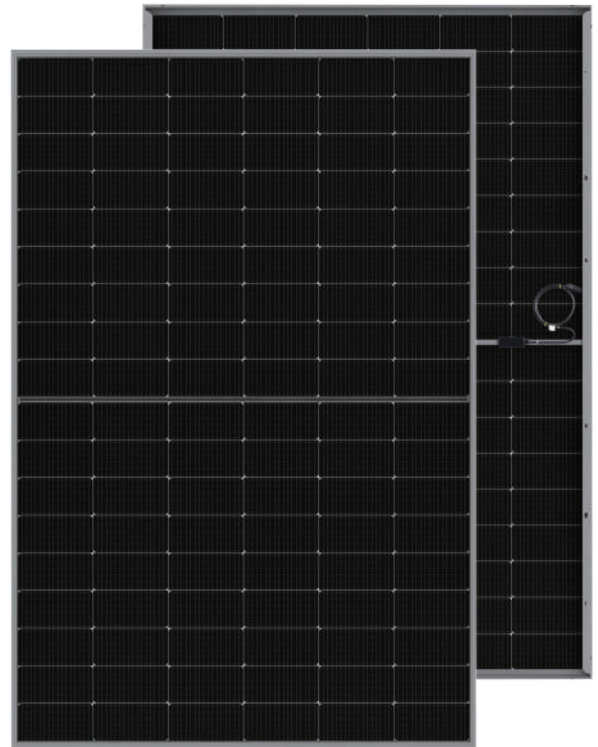
ISO 45001:2018: Occupational health management systems



12-Year Warranty for Materials and Processing

30-Year Warranty for Extra Linear Power Putput

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.



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



Enhanced Mechanical Load

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

