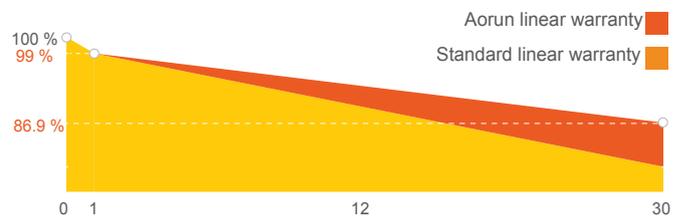


# AR144-182.2NGG 565-585WATT

## BIFACIAL MODULE

Industry-leading Warranty based on nominal power



\* 0.4% Annual Degradation over 30 Years

\* 12 Year Product Warranty

\* 30 Year Linear Power Warranty

## Features



### SMBB Technology

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



### Hot 2.0 Technology

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



### Excellent weak light performance

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



### Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) \*



### PID Resistance

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



### Lower LCOE

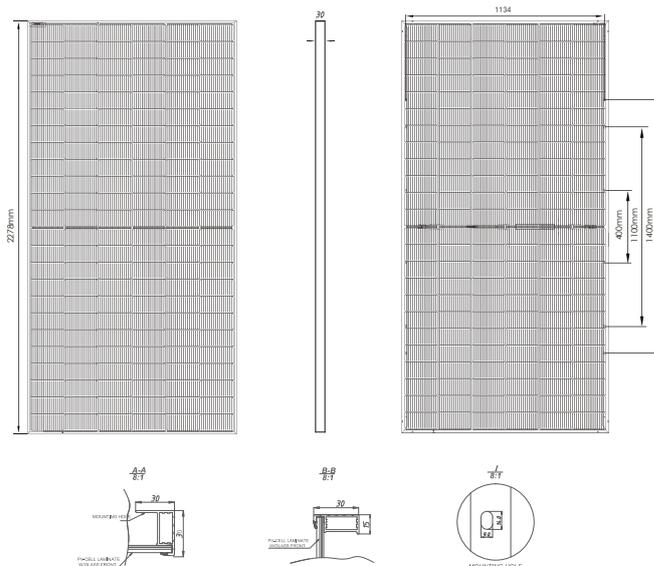
Higher bifaciality, higher power output and lower BOS cost

# BIFACIAL MODULE

# AR144-182.2NGG

## MECHANICAL SPECIFICATIONS

Cell Type	N type Mono-crystalline
Cell Dimensions	182.2*182.2mm
Cell Arrangement	144 (6*24)
Weight	31.8KG
Module Dimensions	2278*1134*30mm
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm <sup>2</sup> /UL: 12AWG
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
No. of Bypass Diodes	3/6
Packing Configuration (1)	36pcs/pallet, 720pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68



## ELECTRICAL SPECIFICATIONS

Module Type	AR144-565-182NGG		AR144-570-182NGG		AR144-575-182NGG		AR144-580-182NGG		AR144-585-182NGG	
	STC	NOCT								
Testing Condition	STC	NOCT								
Rated output (Pmp/Wp)	565	422	570	426	575	430	580	433	585	437
Max. Power Voltage(Vmpp/V)	43.4	39.6	43.55	39.74	43.7	39.88	43.85	40.01	44.0	49.25
Max. Power Current(Imp/A)	13.02	10.66	13.09	10.72	13.16	10.77	13.23	10.83	13.30	10.89
Open Circuit Voltage(Voc/V)	51.85	48.68	52.0	48.82	52.15	48.96	52.3	49.1	52.45	49.25
Short Circuit Current(Isc/A)	13.93	11.25	14.00	11.31	14.06	11.36	14.13	11.41	14.19	11.46
Module efficiency(%)	21.9%		22.1%		22.3%		22.5%		22.6%	
Power Tolerance (W)	0~+5		0~+5		0~+5		0~+5		0~+5	

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

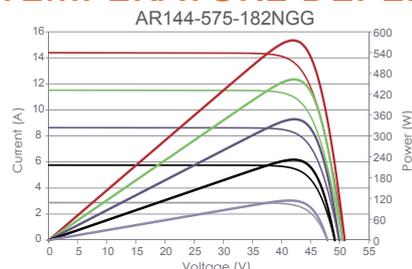
## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

Irradiance	Module Efficiency STC (%)	AR144-565-182NGG		AR144-570-182NGG		AR144-575-182NGG		AR144-580-182NGG		AR144-585-182NGG	
		Maximum Power(Pmax)	Module Efficiency STC (%)								
5%	23.0%	593	23.0%	599	23.2%	604	23.4%	609	23.6%	614	23.8%
15%	25.2%	650	25.2%	656	25.4%	661	25.6%	667	25.8%	673	26.1%
25%	27.3%	706	27.3%	713	27.6%	719	27.8%	725	28.1%	731	28.3%

## MAXIMUM RATINGS

Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	30A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ

## CURVE & TEMPERATURE DEPENDENT



Temperature Dependence of Isc, Voc, Pmax

