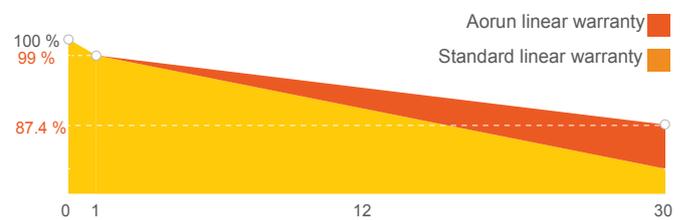


AR144-183.75NGG 580-600WATT

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.



Excellent weak light performance

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



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.



Extended wind and snow load tests

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



Lower LCOE

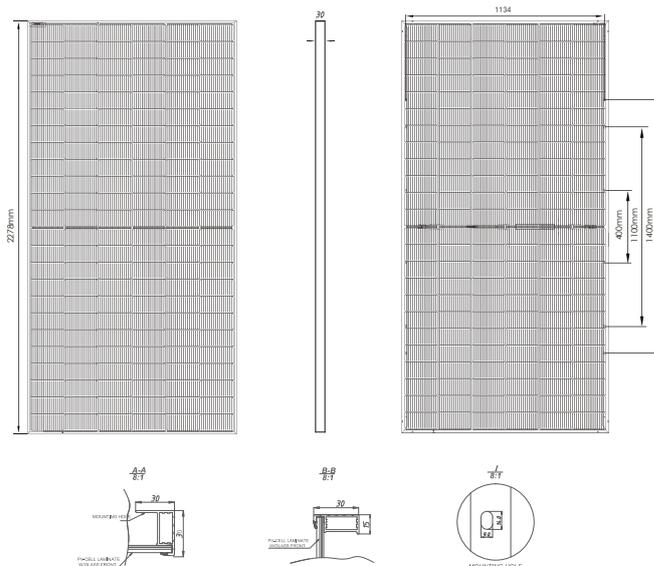
Higher bifaciality, higher power output and lower BOS cost

BIFACIAL MODULE

AR144-183.75NGG

MECHANICAL SPECIFICATIONS

Cell Type	N type Mono-crystalline
Cell Dimensions	182.2*183.75mm
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 ² /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	AR144-580-183NGG		AR144-585-183NGG		AR144-590-183NGG		AR144-595-183NGG		AR144-600-183NGG	
	STC	BNPI								
Testing Condition	STC	BNPI								
Rated output (Pmp/Wp)	580	638	585	644	590	649	595	655	600	660
Max. Power Voltage(Vmpp/V)	43.88	44.0	44.02	44.17	44.17	44.33	44.31	44.50	44.45	44.66
Max. Power Current(Imp/A)	13.22	14.50	13.29	14.58	13.36	14.64	13.43	14.72	13.50	14.78
Open Circuit Voltage(Voc/V)	52.5	52.53	52.70	52.73	52.90	52.93	53.10	53.13	53.30	53.33
Short Circuit Current(Isc/A)	13.95	15.25	14.01	15.31	14.07	15.37	14.13	15.43	14.19	15.49
Module efficiency(%)	22.5%		22.7%		22.8%		23.0%		23.2%	
Power Tolerance (W)	0~+5		0~+5		0~+5		0~+5		0~+5	

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 BNPI: Irradiance at 1000W/m², Ambient Temperature 25°C, Air Mass AM1.5, Wind Speed 1m/s

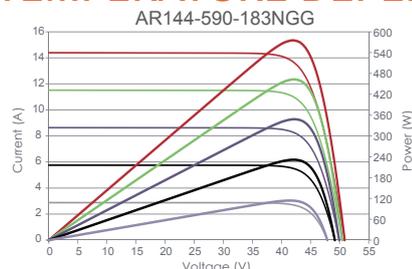
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

%	Parameter	AR144-580-183NGG	AR144-585-183NGG	AR144-590-183NGG	AR144-595-183NGG	AR144-600-183NGG
		Maximum Power(Pmax)	609	614	620	625
Module Efficiency STC (%)	23.5%	23.7%	24.0%	24.2%	24.4%	
15%	Maximum Power(Pmax)	667	672	679	684	690
	Module Efficiency STC (%)	25.8%	26.0%	26.3%	26.4%	26.7%
25%	Maximum Power(Pmax)	725	731	738	745	750
	Module Efficiency STC (%)	28.0%	28.3%	28.6%	28.8%	29.0%

MAXIMUM RATINGS

Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40°C ~ +70°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

