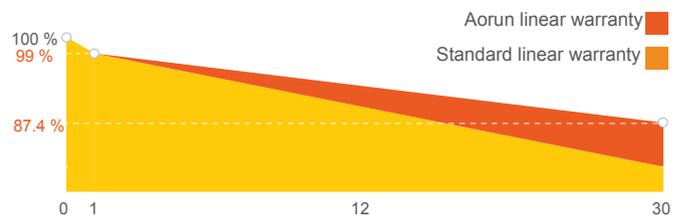


AR120-210NGG

635-655 Watt

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

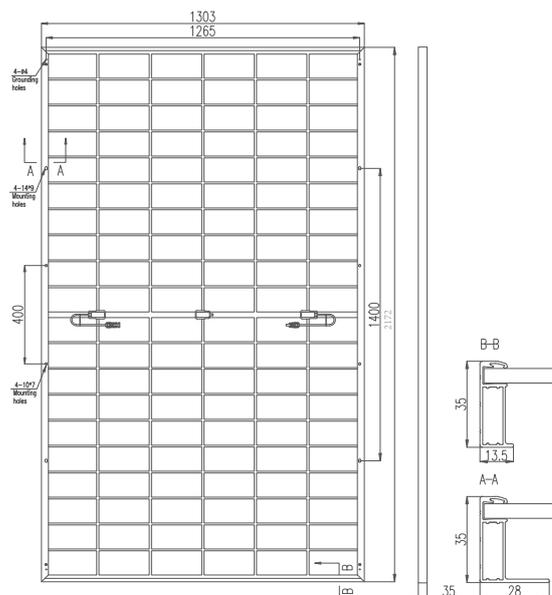
Higher bifaciality, higher power output and lower BOS cost

BIFACIAL MODULE

AR120-210NGG

MECHANICAL SPECIFICATIONS

Cell Type	TOPCon Monocrystalline
Cell Dimensions	210*210mm N Type
Cell Arrangement	120 (6*20)
Weight	35KG
Module Dimensions	2172*1303*35mm
Cables	TUV 4.0mm2(+): 300mm , (-): 200mm or Customized Length
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
No. of Bypass Diodes	3/6
Packing Configuration	36pcs/pallet, 527pcs/40HQ
Frame	Anodized Aluminium Alloy
Junction Box	IP68



ELECTRICAL SPECIFICATIONS

Module Type	AR120-635-210NGG		AR120-640-210NGG		AR120-645-210NGG		AR120-650-210NGG		AR120-655-210NGG	
	STC	NOCT								
Testing Condition										
Rated output (Pmp/Wp)	635	486	640	490	645	493	650	497	655	501
Max. Power Voltage(Vmpp/V)	36.80	34.70	37.00	35.00	37.20	35.20	37.40	35.40	37.60	35.60
Max. Power Current(Imp/A)	17.26	13.98	17.30	14.00	17.34	14.03	17.38	14.05	17.43	14.06
Open Circuit Voltage(Voc/V)	44.20	41.90	44.50	42.20	44.80	42.50	45.10	42.80	45.40	43.10
Short Circuit Current(Isc/A)	18.27	14.73	18.30	14.75	18.33	14.77	18.36	14.80	18.39	14.82
Module efficiency(%)	22.4%		22.6%		22.8%		23.0%		23.1%	
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 NOCT: Irradiance at 800W/m2, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

Electrical Characteristics with Different Rearside Power Gain (Reference to Gain 5% Front)

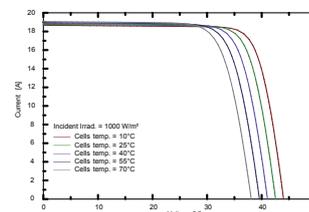
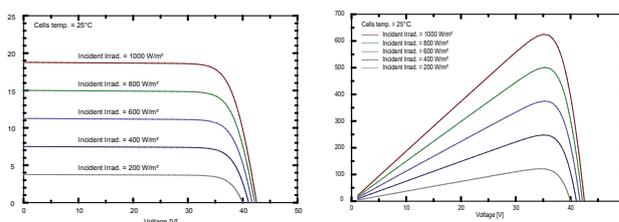
Parameter	667	672	677	683	688
Pmax/W	667	672	677	683	688
Vmpp/V	36.8	37.0	37.2	37.4	37.60
Imp/A	18.12	18.17	18.21	18.25	18.30
Voc/V	44.2	44.5	44.8	45.10	45.40
Isc/A	19.18	19.22	19.25	19.28	19.31
Pmax gain	5%	5%	5%	5%	5%

MAXIMUM RATINGS

Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40°C ~ +70°C
Maximum Series Fuse	35A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ

CURVE & TEMPERATURE DEPENDENC

AR120-645-210NGG



TEMPERATURE CHARACTERISTICS

NOCT Temperature	45°C±2°C
Temperature Coefficient (Pmax)	-0.31%/°C
Temperature Coefficient (Voc)	-0.26%/°C
Temperature Coefficient (Isc)	0.046%/°C