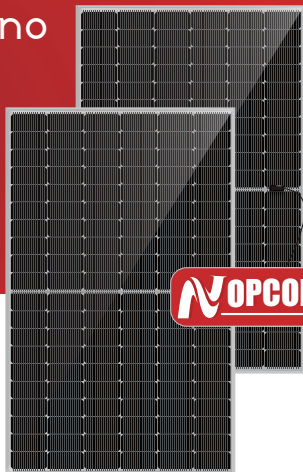


N-type TOPCon Mono

610-630W

AS610-630G12-120 Bifacial

Bifacial Half-Cell PV Module



TOPCON



N-TYPE TOPCON module could increase power generation by 3%+ per watt compared with PERC



LOWER DEGRADATION RATE
First-year $\leq 1\%$, 2-30 year $\leq 0.4\%$



COMPATIBLE with mainstream trackers
effective product for utility power plant



Lower degradation rate, **BETTER** shading tolerance
First-year $\leq 1\%$, 2-30 year $\leq 0.4\%$



LOWER Temp. COEFFICIENT
More power generation under high-temperature

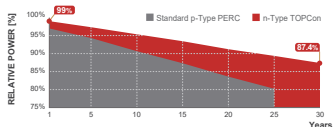


30 Year
Warranty for Extra Linear Power Output

15 Year
Warranty for Materials and Processing

0.4%
Annual degradation

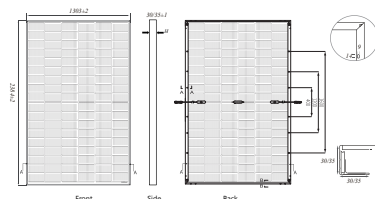
LINEAR PERFORMANCE WARRANTY



AS610-630G12-120 Bifacial Half-Cell PV Module

MECHANICAL SPECIFICATION

Cell	N-type TOPCon Mono
No. of cells	120 (6x20)
Cable Length	300mm(+/-300mm)(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68, 3 diodes
Connector	MC4 Compatible
Weight	35.3kg $\pm 3\%$
Cells Type	Mono 210x105mm
Dimension(LxWxT)	2172x2mmx1303x2mmx35x1mm
Packaging	36pcs/pallet, 648pcs/40HQ (30mm) 31pcs/pallet, 558pcs/40HQ (35mm)



Remark: customized frame color and cable length available upon request

ELECTRICAL CHARACTERISTICS

STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax $\pm 3\%$

Module Type	AS610G12-120		AS615G12-120		AS620G12-120		AS625G12-120		AS630G12-120	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	610	457.7	615	461.4	620	461.4	625	461.4	630	461.4
Open Circuit Voltage(Voc/V)	42.16	39.10	42.28	39.30	42.40	39.50	42.52	39.70	42.64	39.90
Short Circuit Current(Isc/A)	18.29	15.30	18.35	15.34	18.35	15.38	18.35	15.42	18.35	15.46
Voltage at Maximum Power(Vmp/V)	35.20	32.90	35.40	33.10	35.40	33.30	35.40	33.50	35.40	33.70
Current at Maximum Power(Imp/A)	17.33	13.89	17.37	13.92	17.37	13.95	17.37	13.98	17.37	14.01
Module Efficiency(%)	21.55		21.73		21.91		22.08		22.26	

ELECTRICAL CHARACTERISTICS

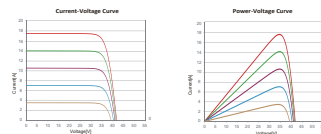
	Maximum power (W)	641	646	651	656	662	Maximum System Voltage	1500VDC
5%	Module efficiency STC (%)	22.6%	22.8%	23.0%	23.2%	23.4%	Operating Temperature	-40°C ~ +85°C
15%	Maximum power (Total)	702	707	713	719	725	Maximum Series Fuse	30A
	Module efficiency STC (%)	24.8%	25.0%	25.2%	25.4%	25.6%	Maximum Static Load, Front	5400Pa(112lb/ft ²)
25%	Maximum power (Total)	763	769	775	781	788	Maximum Static Load, Back	2400Pa(50lb/ft ²)
	Module efficiency STC (%)	26.9%	27.2%	27.4%	27.6%	27.8%	Safety Class	Class II

OPERATING PARAMETERS

Nominal Operating Cell Temperature(NOCT)	45 ± 2 °C
Temperature Coefficient of Isc	+0.046%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.30%/°C

*Specs are subject to change without further notification

I-V CURVE(AS610-630G12-120)



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