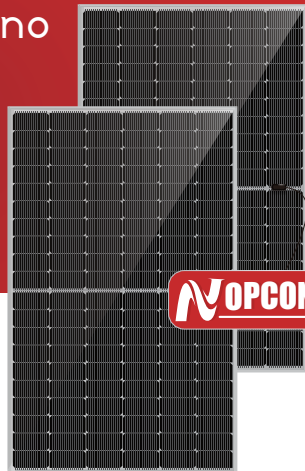


N-type TOPCon Mono

555-580W

AS555-580G12-110 Bifacial

Bifacial Half-Cell PV Module



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



HIGHER power output
Bifacial module back-side power increase 5-25%



COMPATIBLE with mainstream trackers
effective product for utility power plant



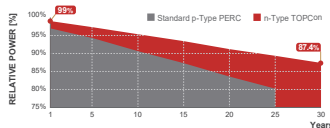
Lower degradation rate, **BETTER** shading tolerance
First-year $\leq 1\%$, 2-30 year $\leq 0.4\%$



LOWER Temp. COEFFICIENT
More power generation under high-temperature



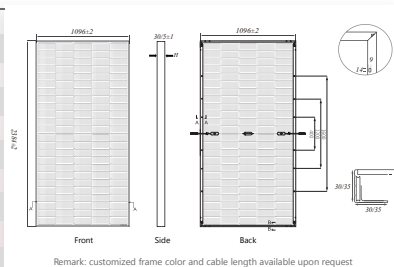
LINEAR PERFORMANCE WARRANTY



AS555-580G12-110 Bifacial Half-Cell PV Module

MECHANICAL SPECIFICATION

Cell	N-type TOPCon Mono
No. of cells	110(5x22)
Cable Length	300mm(+/-)300mm(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68, 3 diodes
Connector	MC4 Compatible
Weight	32.6kgs $\pm 3\%$
Cells Type	Mono 210x105mm
Dimension(LxWxT)	2384 ± 2 mmx1096 ± 2 mmx30 ± 1 mm
Packaging	36pcs/pallet, 720pcs/40HQ (30mm) 31pcs/pallet, 620pcs/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	AS555G12-110	AS560G12-110	AS565G12-110	AS570G12-110	AS575G12-110	AS580G12-110
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	555	420	560	424	565	428
Open Circuit Voltage(Voc/V)	38.6	35.9	38.7	36.1	38.8	36.3
Short Circuit Current(Isc/A)	8.30	14.96	18.35	15.00	18.40	15.04
Voltage at Maximum Power(Vmp/V)	32.0	29.5	32.2	29.6	32.4	29.7
Current at Maximum Power(Imp/A)	17.35	14.23	17.40	14.27	17.45	14.31
Module Efficiency(%)	21.24	21.43	21.62	21.82	22.01	22.20

ELECTRICAL CHARACTERISTICS

OPERATING PARAMETERS

5%	Maximum power (W)	583	588	593	599	604	609	Maximum System Voltage	1500VDC
	Module efficiency STC (%)	22.3%	22.5%	22.7%	22.9%	23.1%	23.3%	Operating Temperature	-40 °C ~ +85 °C
15%	Maximum power (Total)	638	644	650	656	661	667	Maximum Series Fuse	30A
	Module efficiency STC (%)	24.4%	24.6%	24.9%	25.1%	25.3%	25.5%	Maximum Static Load, Front	5400Pa (112lb/ft ²)
25%	Maximum power (Total)	694	700	706	713	719	725	Maximum Static Load, Back	2400Pa (50lb/ft ²)
	Module efficiency STC (%)	26.6%	26.8%	27.0%	27.3%	27.5%	27.7%	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(AS555-580G12-110)

