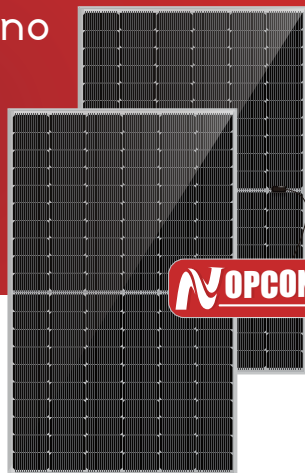


N-type TOPCon Mono

435-455W

AS435-455G12R-96 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



30 Year

Warranty for Extra Linear Power Output

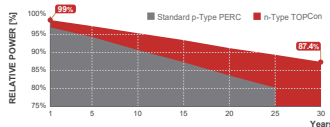
15 Year

Warranty for Materials and Processing

0.4 %

Annual degradation

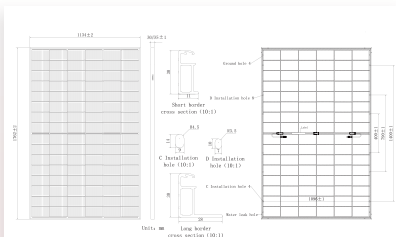
LINEAR PERFORMANCE WARRANTY



AS435-455G12R-96 Bifacial Half-Cell PV Module

MECHANICAL SPECIFICATION

Cell	N-type TOPCon Mono
No. of cells	96(6x16)
Cable Length	300mm(+/-)300mm(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68
Connector	MC4 Compatible
Weight	24.5kg $\pm 3\%$
Cells Type	Mono 182x105mm
Dimension(LxWxT)	1762 ± 2 mmx1134 ± 2 mmx30 ± 1 mm
Packaging	36pcs/pallet, 936pcs/40HQ(30mm) 31pcs/pallet, 806pcs/40HQ(35mm)



Remark: customized frame color and cable length available upon request

ELECTRICAL CHARACTERISTICS

Module Type	AS435G12R-96		AS440G12R-96		AS445G12R-96		AS450G12R-96		AS455G12R-96	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	435	327	440	331	445	335	450	339	455	343
Open Circuit Voltage(Voc/V)	34.66	32.80	34.84	33.00	35.02	33.10	35.20	33.30	35.38	33.50
Short Circuit Current(Isc/A)	15.89	12.90	15.94	12.90	15.99	12.90	16.04	13.00	16.09	13.00
Voltage at Maximum Power(Vmp/V)	29.55	27.50	29.73	27.70	29.91	27.90	30.09	28.00	30.27	28.20
Current at Maximum Power(Imp/A)	14.73	11.90	14.81	12.00	14.89	12.00	14.97	12.10	15.05	12.20
Module Efficiency(%)	21.77		22.02		22.27		22.52		22.77	

ELECTRICAL CHARACTERISTICS

5%	Maximum power (W)	457	462	467	472	478
15%	Module efficiency STC (%)	22.9%	23.1%	23.4%	23.6%	24.0%
	Maximum power (Total)	500	506	512	518	523
25%	Module efficiency STC (%)	25.0%	25.3%	25.6%	26.0%	26.1%
	Maximum power (Total)	544	550	556	563	569
	Module efficiency STC (%)	27.2%	27.5%	27.8%	28.1%	28.5%

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40 °C ~ +85 °C
Maximum Series Fuse	30A
Maximum Static Load, Front	5400Pa(12lb/ft ²)
Maximum Static Load, Back	2400Pa(50lb/ft ²)
Safety Class	Class II

OPERATING PARAMETERS

Normal Operating Cell Temperature(NOCT)	45 ± 2 °C
Temperature Coefficient of I _{sc}	+0.045%/ °C
Temperature Coefficient of V _{oc}	-0.26%/ °C
Temperature Coefficient of P _{max}	-0.29%/ °C

*Specs are subject to change without further notification

I-V CURVE(AS435-455G12R-96)

