

N-type TOPCon Mono

485-505W

AS485-505M10-108 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%



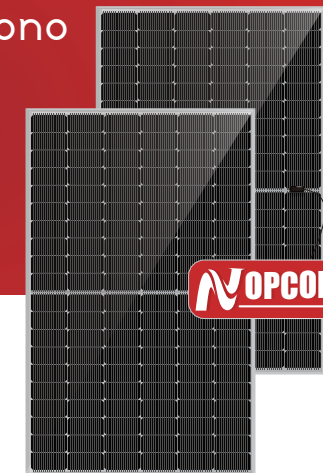
COMPATIBLE with mainstream trackers
effective product for utility power plant



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



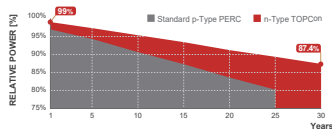
TOPCON

30 Year
Warranty for Substrate
Power Output

15 Year
Warranty for Materials
and Processing

0.4%
Annual degradation

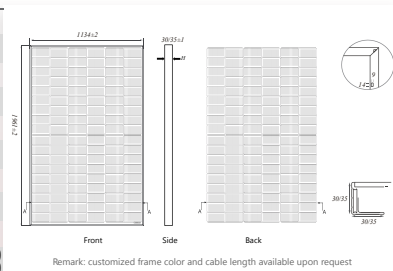
LINEAR PERFORMANCE WARRANTY



AS485-505M10-108 Bifacial Half-Cell PV Module

MECHANICAL SPECIFICATION

Cell	N-type monocrystalline
No. of cells	108(2x54)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68
Connector	MC4 Compatible
Weight	24kg $\pm$ 3%
Cells Type	Mono 182x91mm
Dimension(LxWxT)	1961 $\pm$ 2mmx1342 $\pm$ 2mmx30 $\pm$ 1mm
Packaging	36pcs/pallet, 24 pcs/stock; 864pcs/40HQ(30mm) 31pcs/pallet, 24 pcs/stock; 744pcs/40HQ(35mm)



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	AS485M10-108		AS490M10-108		AS495M10-108		AS500M10-108		AS505M10-108	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	485	371	490	375	495	378	500	382	505	386
Open Circuit Voltage(Voc/V)	39.20	37.10	39.50	37.40	39.80	37.70	40.10	38.00	40.40	38.30
Short Circuit Current(Isc/A)	15.77	12.72	15.80	12.74	15.83	12.76	15.86	12.78	15.89	12.80
Voltage at Maximum Power(Vmp/V)	32.68	30.86	32.88	31.08	33.10	31.30	33.30	31.52	33.50	31.73
Current at Maximum Power(Imp/A)	14.85	12.02	14.91	12.05	14.97	12.08	15.03	12.11	15.08	12.15
Module Efficiency(%)	21.80		22.00		22.30		22.50		22.70	

ELECTRICAL CHARACTERISTICS

OPERATING PARAMETERS

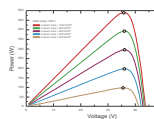
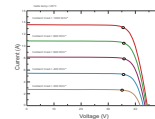
	Maximum power (W)	509	515	520	525	530	Maximum System Voltage	1500VDC
5%	Module efficiency STC (%)	22.9%	23.2%	23.4%	23.6%	23.8%	Operating Temperature	-40°C ~ +70°C
15%	Maximum power (Total)	558	564	570	575	581	Maximum Series Fuse	25A
	Module efficiency STC (%)	25.1%	25.4%	25.6%	25.9%	26.1%	Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
25%	Maximum power (Total)	606	613	619	625	631	Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
	Module efficiency STC (%)	27.3%	27.6%	27.8%	28.1%	28.4%	Safety Class	Class II

OPERATING PARAMETERS

Nominal Operating Cell Temperature(NOCT)	43 $\pm$ 2°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Pmax	-0.30%/°C

*Specs are subject to change without further notification

I-V CURVE(AS485-505M10-108)



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