

N-type TOPCon Mono

425-450W

AS425-450M10-108 Full Black

Full Black Half-Cell PV Module



TOPCON



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 ≤1%, 2-30 year ≤0.4%



LOWER Temp. COEFFICIENT
More power generation under high-temperature



30 Year

Warranty for Bifacial Linear Power Output

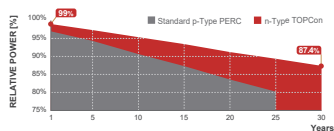
15 Year

Warranty for Materials and Processing

0.4%

Annual degradation

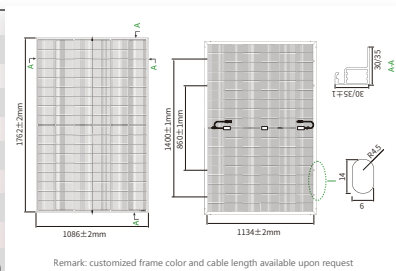
LINEAR PERFORMANCE WARRANTY



AS425-450M10-108 Full Black Half-Cell PV Module

MECHANICAL SPECIFICATION

Cell	N-type monocrystalline
No. of cells	300mm(+)/300mm(-)
Cable Length	4mm±1(IEC)
Cable Cross Section Size	IP68
Junction Box	MC4 Compatible
Connector	
Weight	24.5kg±3%
Cells Type	Mono 182x94mm
Dimension(LxWxT)	1762±2mmx1134±2mmx30±1mm
Packaging	36pcs/pallet/1360pcs/20GP/936pcs/40HQ(30mm) 31pcs/pallet/1306pcs/20GP/806pcs/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 ± 3%

Module Type	AS425M10-108	AS430M10-108	AS435M10-108	AS440M10-108	AS445M10-108	AS450M10-108
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	425	469	430	474	435	480
Open Circuit Voltage(Voc/V)	39.23	39.23	39.50	39.43	39.63	39.63
Short Circuit Current(Isc/A)	13.77	15.16	13.84	15.24	13.91	15.32
Voltage at Maximum Power(Vmp/V)	32.90	32.91	33.08	33.06	33.26	33.26
Current at Maximum Power(Imp/A)	12.92	14.25	13.00	14.34	13.08	14.43
Module Efficiency(%)	21.27	21.52		21.77	22.02	22.27

ELECTRICAL CHARACTERISTICS

OPERATING PARAMETERS

5%	Maximum power (W)	446	452	457	462	467	473	Maximum System Voltage	1500VDC
	Module efficiency STC (%)	22.3%	22.6%	22.9%	23.1%	23.3%	23.7%	Operating Temperature	-40 °C ~ +70 °C
15%	Maximum power (Total)	489	495	500	506	512	518	Maximum Series Fuse	30A
	Module efficiency STC (%)	24.4%	24.8%	25.0%	25.3%	25.6%	26.0%	Maximum StaticLoad,Front	5400Pa(112lb/ft²)
25%	Maximum power (Total)	531	538	544	550	556	563	Maximum StaticLoad,Back	2400Pa(50lb/ft²)
	Module efficiency STC (%)	26.6%	26.9%	27.2%	27.5%	27.8%	28.2%	Safety Class	Class II

I-V CURVE(AS425-450M10-108)

OPERATING PARAMETERS

Normal Operating Cell Temperature(NOCT)	45±2 °C
Temperature Coefficient of Isc	+0.045%/ °C
Temperature Coefficient of Voc	-0.26%/ °C
Temperature Coefficient of Pmax	-0.29%/ °C

*Specs are subject to change without further notification

