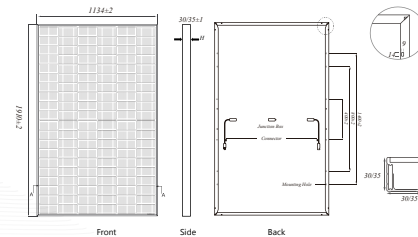


465-490W

Monofacial Half-Cell PV Module

- Weight**
23kgs±3%
- Cells Type**
Mono 182x91mm
- Dimension(LxWxT)**
1910±2mmx1134±2mmx30/35±1mm
- Packaging**
36pcs/pallet, 360pcs/20GP;864pcs/40HQ(30mm)
31pcs/pallet, 306pcs/20GP;744pcs/40HQ(35mm)



Remark: customized frame color and cable length available upon request

465~490W

AS465-490M10-120

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

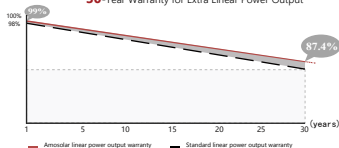
LOWER DEGRADATION RATE
First-year ≤1%, 2-30 year ≤0.4%

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

15-Year Warranty for Materials and Processing
30-Year Warranty for Extra Linear Power Output



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
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	30A
Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Safety Class	Class II

ELECTRICAL CHARACTERISTICS

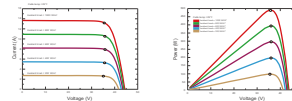
Module Type	STC:AM1.5 1000W/m ² 25 °C		NOCT:AM1.5 800W/m ² 20 °C		1m/s		Test uncertainty for Pmax ±3%					
	AS465M10-120	AS470M10-120	AS475M10-120	AS480M10-120	AS485M10-120	AS490M10-120	STC	NOCT				
Maximum Power(Pmax/W)	465	355.3	470	359.1	475	362.9	480	366.7	485	370.5	490	374.3
Open Circuit Voltage(Voc/V)	43.84	37.50	43.96	37.60	44.08	37.70	44.20	37.80	44.32	37.90	44.44	40.00
Short Circuit Current(Isc/A)	13.48	11.91	13.54	11.97	13.60	12.03	13.66	12.09	13.72	12.15	13.78	12.21
Voltage at Maximum Power(Vmp/V)	35.70	31.60	35.90	31.80	36.10	32.00	36.30	32.20	36.50	32.40	36.70	32.60
Current at Maximum Power(Imp/A)	13.03	11.38	13.10	11.45	13.16	11.52	13.23	11.59	13.29	11.66	13.35	11.73
Module Efficiency(%)	21.47		21.70		21.93		22.16		22.39		22.62	

TEMPERATURE RATINGS

Nominal Operating Cell Temperature(NOCT)	45±2 °C
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Pmax	-0.25%/°C
Temperature Coefficient of Pmax	-0.29%/°C

*Specs are subject to change without further notification

I-V CURVE(AS465-490M10-120)



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