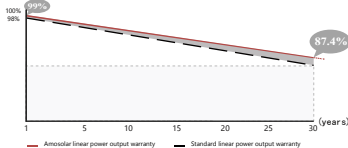


565~590W

AS565-590M10-144 Full Black

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



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

LOWER DEGRADATION RATE
First-year $\leq 1\%$, 2-30 year $\leq 0.4\%$

COMPATIBLE with mainstream trackers effective product for utility power plant

BETTER shading tolerance
Excellent performance under dim light

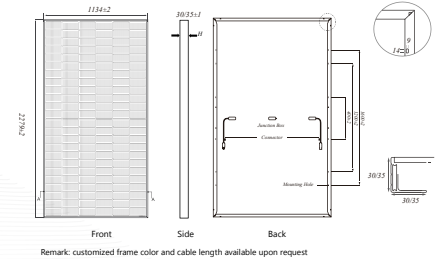
LOWER Temp. COEFFICIENT
More power generation under high-temperature

565-590W

Full Black Half-Cell PV Module

- Weight**
28.6kgs $\pm 3\%$
- Cells Type**
Mono 182x91mm
- Dimension(LxWxT)**
2279 ± 2 mmx1134 ± 2 mmx30/35 ± 1 mm

- Packaging**
36pcs/pallet, 720pcs/40HQ container(30mm)
31pcs/pallet, 620pcs/40HQ container(35mm)



MECHANICAL SPECIFICATION

Cell	N-type TOPCon Mono
No.of cells	144(6x24)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68,3 diodes
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

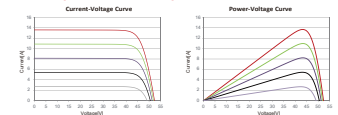
Module Type	STCAM1.5 1000W/m ² 25°C		NOCTAM1.5 800W/m ² 20°C 1m/s		Test uncertainty for Pmax x 3%							
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
AS565M10-144	565	425	570	429	575	433	580	437	585	441	590	445
Open Circuit Voltage(Voc/V)	52.69	48.06	52.81	48.20	52.93	48.34	53.05	48.48	53.17	48.62	53.29	48.76
Short Circuit Current(Isc/A)	13.60	11.49	13.66	11.55	13.72	11.61	13.78	11.67	13.84	11.73	13.90	11.79
Voltage at Maximum Power(Vmp/V)	43.26	39.38	43.46	39.51	43.66	39.64	43.86	39.77	44.06	39.90	44.26	40.03
Current at Maximum Power(Imp/A)	13.08	10.79	13.13	10.85	13.18	10.91	13.23	10.97	13.28	11.03	13.33	11.09
Module Efficiency(%)	21.86		22.06		22.25		22.44		22.64		22.83	

TEMPERATURE RATINGS

Normal 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(AS565-590M10-144)



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