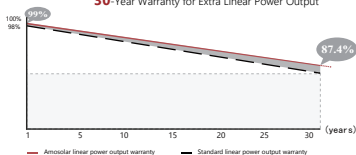


560~590W

AS560-590M10-144BM

12-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



HIGHER power output
Bifacial module back-side power increase 5-25%



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

560-590W

Half-Cell High Efficiency PV Module

Weight

31.8kgs±3%

Cells Type

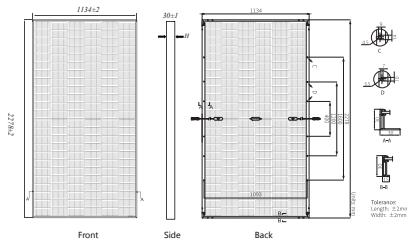
Mono 182x91mm

Dimension(LxWxT)

2278±2mmx1134±2mmx30±1mm

Packaging

36pcs/pallet, 720pcs/40HQ container



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	N-type TOPCon Mono
No. of cells	144(6x24)
Cable Length	±300mm/±1200mm(length can be customized)
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

STC:AM1.5 1000W/m² 25 °C NOCT:AM1.5 800W/m² 20 °C 1m/s Test uncertainty for Pmax ±3%

Module Type	AS560M10-144BM		AS565M10-144BM		AS570M10-144BM		AS575M10-144BM		AS580M10-144BM		AS585M10-144BM		AS590M10-144BM	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	560	426.3	565	430.1	570	433.9	575	437.7	580	441.5	585	445.3	590	449.1
Open Circuit Voltage(Voc/V)	50.99	48.46	51.09	48.55	51.19	48.65	51.30	48.75	51.41	48.86	51.52	48.96	51.63	49.07
Short Circuit Current(Isc/A)	13.89	11.16	13.97	11.22	14.05	11.29	14.14	11.35	14.22	11.42	14.30	11.48	14.38	11.55
Voltage at Maximum Power(Vmp/V)	42.82	40.69	42.91	40.78	43.00	40.87	43.11	40.97	43.22	41.07	43.33	41.18	43.44	41.28
Current at Maximum Power(Imp/A)	13.08	10.48	13.17	10.55	13.26	10.62	13.34	10.68	13.42	10.75	13.51	10.82	13.59	10.89
Module Efficiency(%)	21.7		21.9		22.1		22.3		22.5		22.6		22.8	

Electrical Characteristics with different rear side power gain(reference to 575W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
604	51.30	14.84	43.11	14.00	5%
633	51.30	15.55	43.11	14.67	10%
661	51.40	16.26	43.21	15.34	15%
690	51.40	16.96	43.21	16.01	20%
719	51.40	17.67	43.21	16.67	25%

TEMPERATURE RATINGS

Nominal Operating Cell Temperature(NOCT)	45±2 C
Temperature Coefficiency of Isc	+0.045%/C
Temperature Coefficiency of Voc	-0.23%/C
Temperature Coefficiency of Pmax	-0.28%/C

I-V CURVE(AS580M10-144BM)

*Specs are subject to change without further notification

