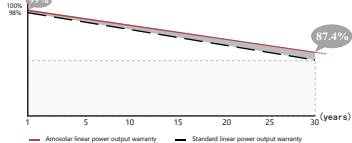


# 565~590W

AS565-590M10-144

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 ≤1%, 2-30 year ≤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

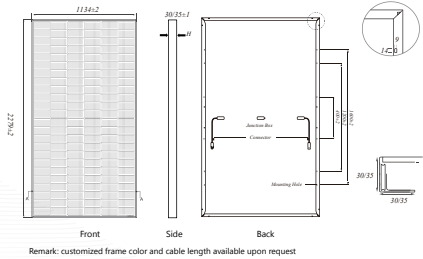
Half-Cell High Efficiency PV Module

**Weight**  
28.6kgs±3%

**Cells Type**  
Mono 182x91mm

**Dimension(LxWxT)**  
2279±2mmx1134±2mmx30/35±1mm

**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 <sup>2</sup> (IEC)
Junction Box	IP68,3 diodes
Connector	MCA Compatible

### OPERATING PARAMETERS

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

### ELECTRICAL CHARACTERISTICS

STC:AM1.5 1000W/m<sup>2</sup> 25°C NOCT:AM1.5 800W/m<sup>2</sup> 20°C 1m/s Test uncertainty for Pmax ±3%

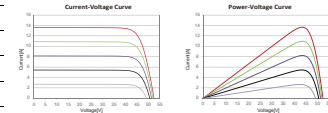
Module Type	AS565M10-144		AS570M10-144		AS575M10-144		AS580M10-144		AS585M10-144		AS590M10-144	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	565	425	570	429	575	433	580	437	585	441	590	445
Open Circuit Voltage(Voc/V)	52.69	48.06	52.81	48.20	52.93	48.34	53.05	48.48	53.17	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)



### Amosolar Co.,Ltd

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Web: [www.amosolarpv.com](http://www.amosolarpv.com) / [amosolar.en.alibaba.com](http://amosolar.en.alibaba.com) Email: [info@amo-solar.com](mailto:info@amo-solar.com)

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