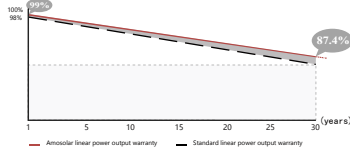


# 555~580W

AS555-580G12-110 Bifacial

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

## 555-580W

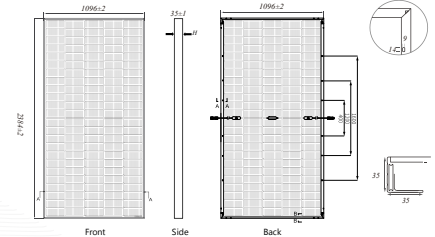
Bifacial Half-Cell PV Module

**Weight**  
32.6kgs±3%

**Cells Type**  
Mono 210x105mm

**Dimension(LxWxT)**  
2384±2mmx1096±2mmx35±1mm

**Packaging**  
31pcs/pallet, 620pcs/40HQ container



Remark: customized frame color and cable length available upon request

### MECHANICAL SPECIFICATION

Cell	N-type TOPCon Mono
No.of cells	110(5x22)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm <sup>2</sup> (1EC)
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 <sup>2</sup> )
Maximum StaticLoad,Back	2400Pa(50lb/ft <sup>2</sup> )
Safety Class	Class II

### ELECTRICAL CHARACTERISTICS

Module Type	STCAM1.5 1000W/m <sup>2</sup> 25°C		NOCTAM1.5 800W/m <sup>2</sup> 20°C		1m/s		Test uncertainty for Pmax ±3%					
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT				
Maximum Power(Pmax/W)	555	420	560	424	565	428	570	432	575	436	580	440
Open Circuit Voltage(Voc/V)	38.6	35.9	38.7	36.1	38.8	36.3	38.9	36.5	39.0	36.7	39.1	36.9
Short Circuit Current(Isc/A)	18.30	14.96	18.35	15.00	18.40	15.04	18.45	15.08	18.50	15.12	18.55	15.16
Voltage at Maximum Power(Vmp/V)	32.0	29.5	32.2	29.6	32.4	29.7	32.6	29.8	32.8	29.9	33.0	30.0
Current at Maximum Power(Imp/A)	17.35	14.23	17.40	14.27	17.45	14.31	17.50	14.35	17.55	14.39	17.60	14.43
Module Efficiency(%)	21.24		21.43		21.62		21.82		22.01		22.20	

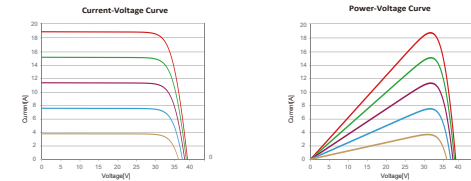
### ELECTRICAL CHARACTERISTICS SIDE POWER GAIN

5%	15%	25%	
Maximum power (Pmax)	638	644	650
Module efficiency STC (%)	22.3%	22.5%	22.7%
Maximum power (Pmax)	694	700	706
Module efficiency STC (%)	26.6%	26.8%	27.0%

### TEMPERATURE RATINGS

Nominal 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

### I-V CURVE(AS555-580G12-110)



\*Specs are subject to change without further notification