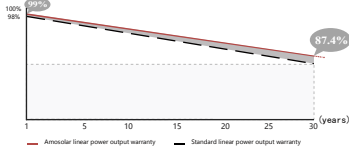


# 610~630W

AS610-630G12-120 Bifacial

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



**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

**BETTER shading tolerance**  
Excellent performance under dim light

**LOWER Temp. COEFFICIENT**  
More power generation under high-temperature

# 610-630W

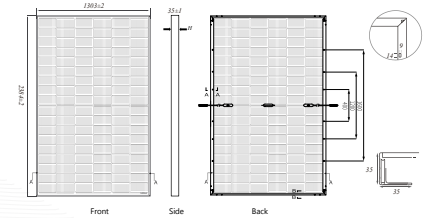
Bifacial Half-Cell PV Module

**Weight**  
35.3kgs±3%

**Cells Type**  
Mono 210x105mm

**Dimension(LxWxT)**  
2172±2mmx1303±2mmx35±1mm

**Packaging**  
31pcs/pallet, 558pcs/40HQ container



Remark: customized frame color and cable length available upon request

### MECHANICAL SPECIFICATION

Cell	N-type TOPCon Mono
No. of cells	120(6x20)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm <sup>2</sup> (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 <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				
Maximum Power(Pmax/W)	610	457.7	615	461.4	620	461.4	625	461.4	630	461.4
Open Circuit Voltage(Voc/V)	42.16	39.10	42.28	39.30	42.40	39.50	42.52	39.70	42.64	39.90
Short Circuit Current(Isc/A)	18.29	15.30	18.35	15.34	18.35	15.38	18.35	15.42	18.35	15.46
Voltage at Maximum Power(Vmp/V)	35.20	32.90	35.40	33.10	35.40	33.30	35.40	33.50	35.40	33.70
Current at Maximum Power(Imp/A)	17.33	13.89	17.37	13.92	17.37	13.95	17.37	13.98	17.37	14.01
Module Efficiency(%)	21.55		21.73		21.91		22.08		22.26	

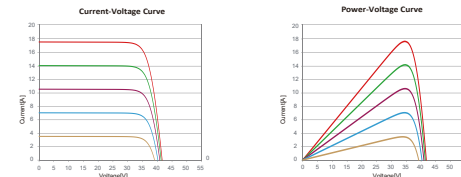
### ELECTRICAL CHARACTERISTICS SIDE POWER GAIN

	641	646	651	656	662
5% Maximum power (W)	641	646	651	656	662
Module efficiency STC (%)	22.6%	22.8%	23.0%	23.2%	23.4%
Maximum power (Total)	702	707	713	719	725
15% Module efficiency STC (%)	24.8%	25.0%	25.2%	25.4%	25.6%
Maximum power (Total)	763	769	775	781	788
25% Module efficiency STC (%)	26.9%	27.2%	27.4%	27.6%	27.8%

### 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

### I-V CURVE(AS610-630G12-120)



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