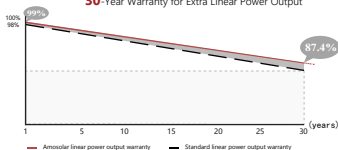


# 610~640W

AS610-640M10-156

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

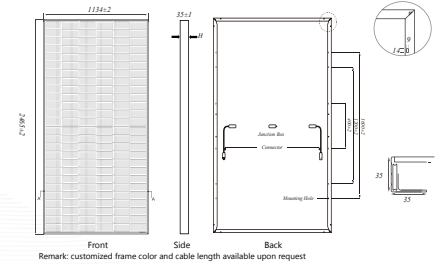
Lower degradation rate, **BETTER** shading tolerance  
First-year  $\leq 1\%$ , 2-30 year  $\leq 0.4\%$

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

## 610-640W

Monofacial Half-Cell PV Module

**Weight**  
30.5kgs $\pm 3\%$   
**Cells Type**  
Mono 182x91mm  
**Dimension(LxWxT)**  
2465 $\pm 2$ mmx1134 $\pm 2$ mmx35 $\pm 1$ mm  
**Packaging**  
31pcs/pallet, 496pcs/40HQ container



Remark: customized frame color and cable length available upon request

### MECHANICAL SPECIFICATION

Cell	N-type TOPCON Mono
No. of cells	156(6x26)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm <sup>2</sup> (IEC)
Junction Box	IP68
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

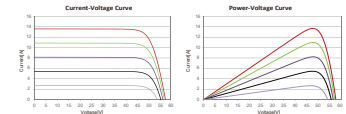
Module Type	STC AM1.5 1000W/m <sup>2</sup> 25°C		NOCT AM1.5 800W/m <sup>2</sup> 20°C 1m/s		Test uncertainty for Pmax $\pm 3\%$									
	AS610M10-156	AS615M10-156	AS620M10-156	AS625M10-156	AS630M10-156	AS635M10-156	AS640M10-156							
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT						
Maximum Power(Pmax/W)	515	464	520	468	525	472	530	476	535	480	535	483	535	487
Open Circuit Voltage(Voc/V)	57.02	49.47	57.14	49.57	57.26	49.67	57.38	49.77	57.50	47.87	57.62	49.97	57.74	50.07
Short Circuit Current(Isc/A)	13.52	11.79	13.58	11.85	13.64	11.91	13.70	11.97	13.76	12.03	13.82	12.09	13.88	12.15
Voltage at Maximum Power(Vmp/V)	46.92	41.68	47.12	41.78	47.32	41.88	47.52	41.98	47.72	42.08	47.92	42.18	48.12	42.28
Current at Maximum Power(Imp/A)	13.01	11.17	13.06	11.24	13.11	11.31	13.16	11.38	13.21	11.45	13.26	11.52	13.31	11.59
Module Efficiency(%)	21.82		22.00		22.18		22.36		22.54		22.72		22.90	

### TEMPERATURE RATINGS

Normal Operating Cell Temperature(NOCT)	45 $\pm 2$ °C
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.29%/°C

\*Specs are subject to change without further notification

### I-V CURVE(AS610-640M10-156)



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