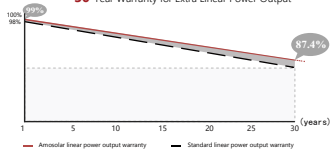


**TOPCON**

# 415~440W

AS415-440M10-108

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

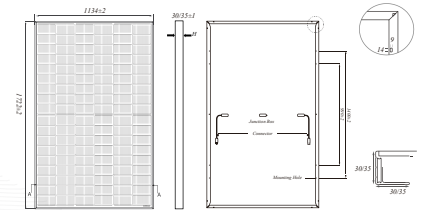
Lower degradation rate, **BETTER** shading tolerance  
First-year  $\leq 1\%$ , 2-30 year  $\leq 0.4\%$

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

## 415-440W

Monofacial Half-Cell PV Module

**Weight**  
21kgs $\pm 3\%$   
**Cells Type**  
Mono 182x91mm  
**Dimension(LxWxT)**  
1722 $\pm 2$ mmx1134 $\pm 2$ mmx30/35 $\pm 1$ mm  
**Packaging**  
36pcs/pallet, 360pcs/20GP;936pcs/40HQ(30mm)  
31pcs/pallet, 306pcs/20GP;806pcs/40HQ(35mm)



Remark: customized frame color and cable length available upon request

### MECHANICAL SPECIFICATION

Cell	N-type TOPCON Mono
No.of cells	108(6x18)
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

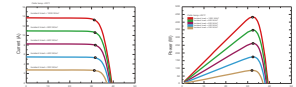
Module Type	STCAM1.5 1000W/m <sup>2</sup> 25°C		NOCT:AM1.5 800W/m <sup>2</sup> 20°C		1m/s		Test uncertainty for Pmax $\pm 3\%$					
	AS415M10-108	AS420M10-108	AS425M10-108	AS430M10-108	AS435M10-108	AS440M10-108	STC	NOCT				
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT				
Maximum Power(Pmax/W)	415	317.3	420	321.1	425	325.0	430	328.7	435	332.5	440	336.3
Open Circuit Voltage(Voc/V)	39.29	36.40	39.41	36.50	39.53	36.60	39.65	36.80	39.77	36.90	39.89	40.00
Short Circuit Current(Isc/A)	13.47	11.30	13.53	11.36	13.59	11.42	13.65	11.49	13.71	11.55	13.77	11.61
Voltage at Maximum Power(Vmp/V)	31.65	29.70	31.85	29.90	32.05	30.00	32.25	30.20	32.45	30.40	32.65	30.60
Current at Maximum Power(Imp/A)	13.12	10.68	13.19	10.75	13.27	10.82	13.34	10.89	13.41	10.96	13.48	11.03
Module Efficiency(%)	21.25		21.51		21.76		22.02		22.20		22.53	

### 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(AS415-440M10-108)



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