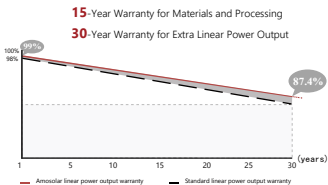


# 415~440W

AS415-440M10-108 Full Black



**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

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

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

## 415-440W

Full Black Half-Cell PV Module

**Weight**

21kgs±3%

**Cells Type**

Mono 182x91mm

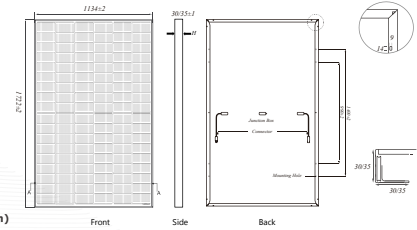
**Dimension(LxWxT)**

1722±2mmx1134±2mmx30/35±1mm

**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	4mm²(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/ft²)
Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Safety Class	Class II

**ELECTRICAL CHARACTERISTICS** STCA1.5 1000W/m² 25°C NOCTAM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax ±3%

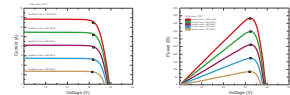
Module Type	AS415M10-108		AS420M10-108		AS425M10-108		AS430M10-108		AS435M10-108		AS440M10-108	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	415	317.3	420	321.1	425	325.0	430	328.7	435	332.5	440	336.3
Open Circuit Voltage(Voc/V)	39.29	36.40	39.41	36.50	39.53	36.60	39.65	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±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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