

415-440W

AS415-440M10-108 Full Black
Full Black Half-Cell PV Module

108CELL

N-type TOPCon Mono

415-440W

Power Output Range

1500VDC

Maximum System Voltage

22.53%

Maximum Efficiency

KEY SALIENT FEATURES



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

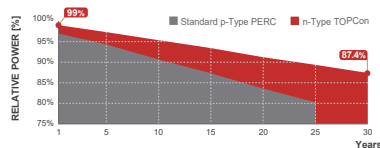


BETTER shading tolerance
Excellent performance under dim light

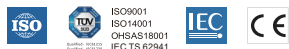


LOWER TEMP. COEFFICIENT
More power generation under high-temperature

LINEAR PERFORMANCE WARRANTY



TOPCON



* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

30 Year

Warranty for Extra Linear Power Output

15 Year

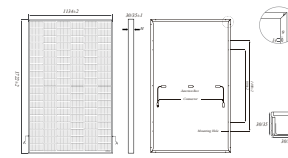
Warranty for Materials and Processing

0.4%

Annual degradation

AS415-440M10-108 Full Black Half-Cell PV Module

Weight	21kgs $\pm 3\%$
Cells Type	Mono 182x91mm
Dimension(LxWxT)	1722 ± 2 mmx1134 ± 2 mmx30/35 ± 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

ELECTRICAL CHARACTERISTICS

Module Type	AS415M10-108	AS420M10-108	AS425M10-108	AS430M10-108	AS435M10-108	AS440M10-108
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P _{max} /W)	415	317.3	420	321.1	425	325.0
Open Circuit Voltage(V _{oc} /V)	39.29	36.40	39.41	36.50	39.53	36.60
Short Circuit Current(I _{sc} /A)	13.47	11.30	13.53	11.36	13.59	11.42
Voltage at Maximum Power(V _{mp} /V)	31.65	29.70	31.85	29.90	32.05	30.00
Current at Maximum Power(I _{mp} /A)	13.12	10.68	13.19	10.75	13.27	10.82
Module Efficiency(%)	21.25	21.51	21.76	22.02	22.20	22.53

MECHANICAL SPECIFICATION

Cell	N-type TOPCon Mono	Cable Cross Section Size	4mm ² (IEC)
No. of cells	108(6x18)	Junction Box	IP68
Cable Length	300mm(+)/300mm(-)	Connector	MC4 Compatible

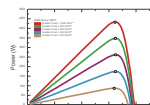
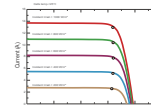
OPERATING PARAMETERS

Maximum System Voltage	1500VDC	Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
Operating Temperature	-40 C ~ +85 C	Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Maximum Series Fuse	30A	Safety Class	Class II

I-V CURVE(AS415-440M10-108)

OPERATING PARAMETERS

Normal Operating Cell Temperature(NOCT)	45 ± 2 C
Temperature Coefficient of I _{sc}	+0.045%/C
Temperature Coefficient of V _{oc}	-0.26%/C
Temperature Coefficient of P _{max}	-0.29%/C



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