

515-540W

AS515-540M10-132 Full Black
Full Black Half-Cell PV Module

132CELL

N-type TOPCon Mono

515~540W

Power Output Range

1500VDC

Maximum System Voltage

22.74%

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

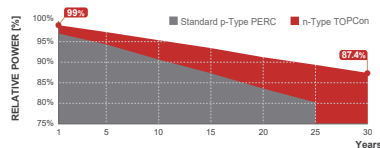


BETTER shading tolerance
Excellent performance under dim light

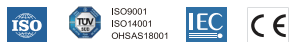


LOWER TEMP. COEFFICIENT
More power generation under high-temperature

LINEAR PERFORMANCE WARRANTY



TOPCON



* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificate 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

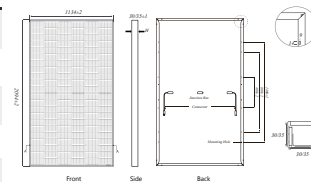
Warranty for Materials and Processing

0.4%

Annual degradation

AS515-540M10-132 Full Black Half-Cell PV Module

Weight	24.5kgs $\pm 3\%$
Cells Type	Mono 182x91mm
Dimension(LxWxT)	2094 ± 2 mmx1134 ± 2 mmx30/35 ± 1 mm
Packaging	36pcs/pallet, 792pcs/40HQ container(30mm) 31pcs/pallet, 682pcs/40HQ container(35mm)



Remark: customized frame color and cable length available upon request

ELECTRICAL CHARACTERISTICS

Module Type	AS515M10-132	AS520M10-132	AS525M10-132	AS530M10-132	AS535M10-132	AS540M10-132
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	515	387	520	391	525	395
Open Circuit Voltage(Voc/V)	48.22	44.21	48.34	44.38	48.46	44.55
Short Circuit Current(Isc/A)	13.57	11.48	13.63	11.54	13.69	11.60
Voltage at Maximum Power(Vmp/V)	39.30	36.13	39.50	36.30	39.70	36.47
Current at Maximum Power(Imp/A)	13.11	10.71	13.17	10.77	13.23	10.83
Module Efficiency(%)	21.69	21.90	22.11	22.32	22.53	22.74

MECHANICAL SPECIFICATION

Cell	N-type TOPCon Mono	Cable Cross Section Size	4mm ² (IEC)
No. of cells	132(6x22)	Junction Box	IP68
Cable Length	300mm(+)/300mm(-)	Connector	MC4 Compatible

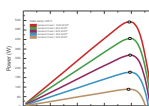
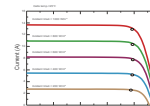
OPERATING PARAMETERS

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(AS515-540M10-132)

OPERATING PARAMETERS

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



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