

N-type TOPCon Mono

515-540W

AS515-540M10-132 Full Black

Full Black Half-Cell PV Module



N-TYPE TOPCON module could increase power generation by 3%+ per watt compared with PERC



HIGHER power output
Bifacial module back-side power increase 5-25%



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



TOPCON

30 Year

Warranty for Solar Linear Power Output

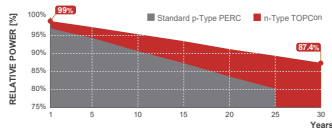
15 Year

Warranty for Materials and Processing

0.4 %

Annual degradation

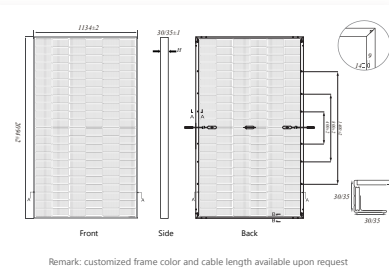
LINEAR PERFORMANCE WARRANTY



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

MECHANICAL SPECIFICATION

Cell	N-type monocrystalline
No. of cells	132(6x22)
Cable Length	300mm(+/-300mm(-))
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68
Connector	MC4 Compatible
Weight	24.5kg±3%
Cells Type	Mono 182x91mm
Dimension(LxWxT)	2094±2mmx1134±2mmx30/35±1mm
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

STC:AM1.5 1000W/m² 25 °C NOCT:AM1.5 800W/m² 20 °C 1m/s Test uncertainty for Pmax ±3%

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

ELECTRICAL CHARACTERISTICS

	Maximum power (W)	541	546	551	556	562	567
5%	Module efficiency STC (%)	22.8%	23.0%	23.2%	23.4%	23.7%	23.9%
15%	Maximum power (Total)	592	598	604	609	615	621
	Module efficiency STC (%)	24.9%	25.2%	25.3%	25.6%	25.9%	26.2%
25%	Maximum power (Total)	643	650	656	662	669	675
	Module efficiency STC (%)	27.1%	27.4%	27.6%	27.9%	28.2%	28.4%

OPERATING PARAMETERS

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

OPERATING PARAMETERS

Nominal 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(AS515-540M10-132)

