

515~540W

Monofacial Half-Cell PV Module

AS515-540M10-132



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

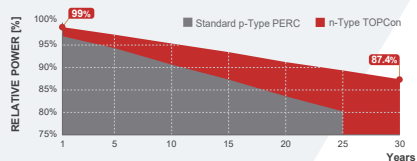


BETTER shading tolerance
Excellent performance under dim light



LOWER TEMP. COEFFICIENT
More power generation under high-temperature

LINEAR PERFORMANCE WARRANTY



30 Year
Warranty for Extra Linear Power Output

15 Year
Warranty for Materials and Processing

0.4%
Annual degradation



ELECTRICAL CHARACTERISTICS (STC)

Maximum Power(Pmax/W)	515	520	525	530	535	540
Open Circuit Voltage(Voc/V)	48.22	48.34	48.46	48.58	48.70	48.82
Short Circuit Current(Isc/A)	13.57	13.63	13.69	13.75	13.81	13.87
Voltage at Maximum Power(Vmp/V)	39.30	39.50	39.70	39.90	40.10	40.30
Current at Maximum Power(Imp/A)	13.11	13.17	13.23	13.29	13.35	13.41
Module Efficiency(%)	21.69	21.90	22.11	22.32	22.53	22.74

STC:AM1.5 1000W/m² 25 °C

ELECTRICAL CHARACTERISTICS (NOCT)

Maximum Power(Pmax/W)	387	391	395	399	403	407
Open Circuit Voltage(Voc/V)	44.21	44.38	44.55	44.72	44.89	45.06
Short Circuit Current(Isc/A)	11.48	11.54	11.60	11.66	11.72	11.78
Voltage at Maximum Power(Vmp/V)	36.13	36.30	36.47	36.64	36.81	36.98
Current at Maximum Power(Imp/A)	10.71	10.77	10.83	10.89	10.95	11.01

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

MECHANICAL SPECIFICATION

Cell	N-type TOPCON Mono	Junction Box	IP68
No. of cells	132(6x22)	Connector	MC4 Compatible
Cable Length	300mm(+)/300mm(-)	Weight	24.5kgs±3%
Cable Cross Section Size	4mm ² (IEC)	Cells Type	Mono 182x91mm
Dimension(LxWxT)	2094±2mmx1134±2mmx30/35±1mm	Packaging	36pcs/pallet, 792pcs/40HQ (30mm) 31pcs/pallet, 682pcs/40HQ (35mm)

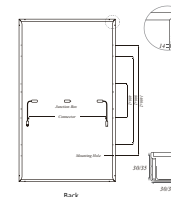
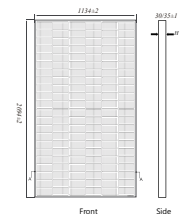
OPERATING PARAMETERS

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

TEMPERATURE RATINGS

Nominal Operating Cell Temperature(NOCT)	45±2 °C
Temperature Coefficient of Isc	+0.045%/ °C
Temperature Coefficient of Voc	-0.26%/ °C
Temperature Coefficient of Pmax	-0.29%/ °C

Remark: customized frame color and cable length available upon request



I-V CURVE(AS515-540M10-132)

