

415~440W

Monofacial Half-Cell PV Module

AS415-440M10-108



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

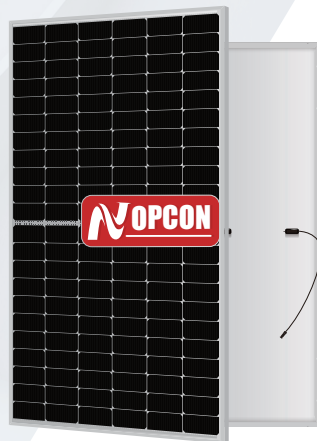
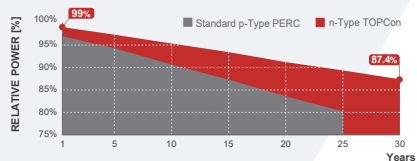


BETTER shading tolerance
Excellent performance under dim light



LOWER TEMP. COEFFICIENT
More power generation under high-temperature

LINEAR PERFORMANCE WARRANTY



30Year
Warranty for Extra Linear
Power Output

15Year
Warranty for Materials
and Processing

0.4%
Annual degradation

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power(Pmax/W)	415	420	425	430	435	435
Open Circuit Voltage(Voc/V)	39.29	39.41	39.53	39.65	39.77	39.89
Short Circuit Current(Isc/A)	13.47	13.53	13.59	13.65	13.71	13.77
Voltage at Maximum Power(Vmp/V)	31.65	31.85	32.05	32.25	32.45	32.65
Current at Maximum Power(Imp/A)	13.12	13.19	13.27	13.34	13.41	13.48
Module Efficiency(%)	21.25	21.51	21.76	22.02	22.28	22.53

STC:AM1.5 1000W/m² 25 °C

ELECTRICAL CHARACTERISTICS (NOTC)

Maximum Power(Pmax/W)	317.3	321.1	325.0	328.7	332.5	336.3
Open Circuit Voltage(Voc/V)	36.40	36.50	36.60	36.80	36.90	37.00
Short Circuit Current(Isc/A)	11.30	11.36	11.42	11.49	11.55	11.61
Voltage at Maximum Power(Vmp/V)	29.70	29.90	30.00	30.20	30.40	30.60
Current at Maximum Power(Imp/A)	10.68	10.75	10.82	10.89	10.96	11.03

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	108(6x18)	Connector	MC4 Compatible
Cable Length	300mm(+)/300mm(-)	Weight	21kgs±3%
Cable Cross Section Size	4mm ² (IEC)	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)

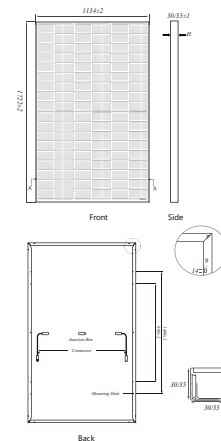
OPERATING PARAMETERS

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(AS415-440M10-108)

