

HMO 5N Max 22.44%

560-580W

N-type TOPCon

Solar Module



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.

Higher Reliability

N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

Higher Power

N-type module output power is 15-30W higher than P-type modules for the same module.

Lower Temperature Coefficient

Power generation is particularly prominent in high temperature environments.

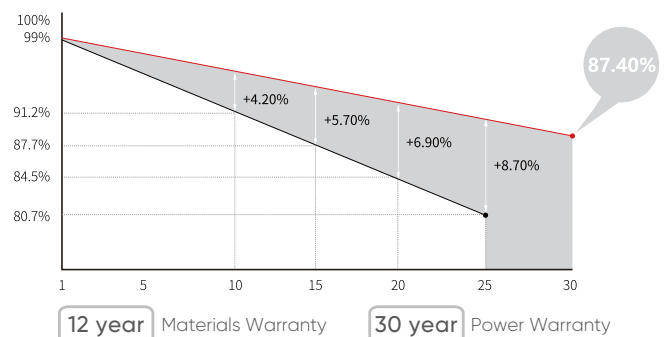
Better Power Guarantee

N-type modules decay 1% in the first year, then 0.4% annual degradation over 30 years.

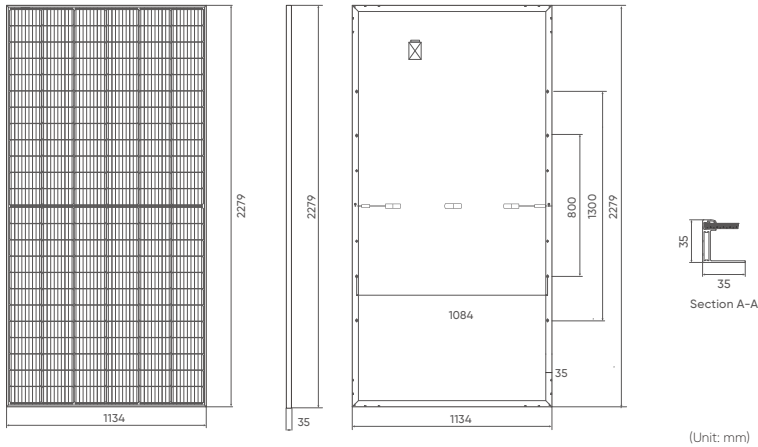
Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt), IEC62716 (Ammonia), IEC60068-2-68(Sand).
ISO 9001 : 2015/quality management system.
ISO 14001 : 2015/environmental management system.
ISO 45001 : 2018/Occupation Health safety system.
ISO 50001 : 2011/energy management system.
IEC TS 62941-2016/PV industry quality management system.

Quality Guarantee



Drawings



Mechanical Characteristics

Solar Cells	N-type Mono
No. of Cells	144 (6×24)
Dimensions	2279 × 1134 × 35mm
Weight	27.5kg
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
Packaging	31pcs/box, 155pcs/20'GP, 620pcs/40'HQ

Electrical Parameters (STC*)

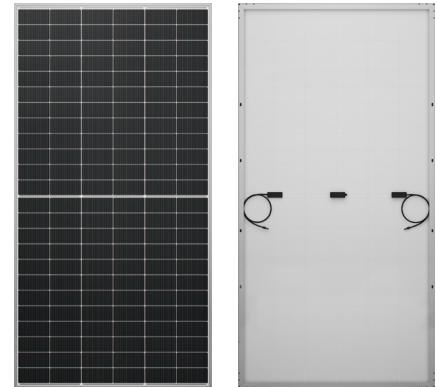
Module Type: HM5-72H-xxxM	560	565	570	575	580
Maximum power (Pmax/W)	560	565	570	575	580
Open Circuit Voltage (Voc/V)	51.03	51.17	51.30	51.44	51.57
Short Circuit Current (Isc/A)	14.05	14.12	14.19	14.26	14.33
Voltage at Maximum power (Vmpp/V)	42.49	42.64	42.79	42.94	43.09
Current Maximum Power (Impp/A)	13.18	13.25	13.32	13.39	13.46
MODULE EFFICIENCY (%)	21.67	21.86	22.06	22.25	22.44

Electrical Parameters (NMOT*)

Maximum power (Pmax)	421	425	429	433	437
Open Circuit Voltage (Voc/V)	48.41	48.60	48.78	48.96	49.14
Short Circuit Current (Isc/A)	11.33	11.39	11.45	11.51	11.57
Voltage at Maximum power (Vmpp/V)	39.31	39.46	39.61	39.76	39.91
Current Maximum Power (Impp/A)	10.71	10.77	10.83	10.89	10.95

- Standard Test Conditions [STC]: irradiance 1000W/m²; AM 1.5; ambient temperature 25°C according to EN 60904-3;
- Nominal Module Operating Temperature (NMOT): Irradiance 800W/m²; wind speed 1m/s, ambient temperature 20°C.
- Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.

Product Image



Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0/+5W

Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C

I-V Curve

