

450-475W

ASP475H-48BDG

Rectangle Bifacial Module with
Double Glass

23.80%
Max. Efficiency



HJT Technology

Shorter current transport path, better low-light performance, and higher power generation.



Up to 90% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB

Stronger moisture resistance, greater air impermeability to extend module lifespan.



Higher Reliability

Industrial leading product and performance warranty, ensuring modules' consistent outstanding performance.



Full Scenarios Coverage

Suitable for all scenarios, especially C&I, residential, and utility applications, lower BOS cost, lower LCOE.

Quality Management System and Product Certification

IEC 61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System.

ISO14001: 2015: ISO Environmental Management System.

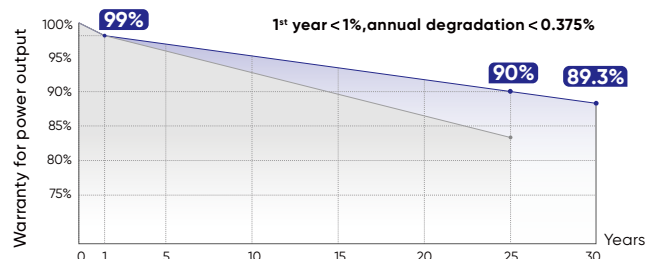
ISO45001: 2018: Occupation Health and Safety.

IEC62941: Guideline for module design qualification and type approval.

Quality Guarantee

15 Year Materials Warranty

30 Year Power Warranty



Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.



Electrical Parameters(STC*)

ASP475H-48BDG	450	455	460	465	470	475
Maximum Power (Pmax/W)	450	455	460	465	470	475
Open Circuit Voltage (Voc/V)	36.72	36.82	36.92	37.02	37.12	37.22
Short Circuit Current (Isc/A)	15.53	15.64	15.75	15.86	15.97	16.08
Voltage at Maximum Power (Vmp/V)	30.83	30.94	31.05	31.16	31.27	31.38
Current at Maximum Power (Imp/A)	14.60	14.71	14.82	14.93	15.04	15.15
Module Efficiency (%)	22.50	22.80	23.00	23.30	23.50	23.80

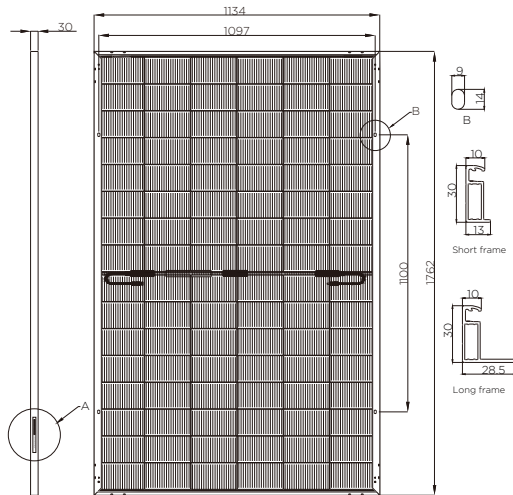
STC: AM1.5, 1000W/m², 25°C.

Electrical Parameters(NOCT*)

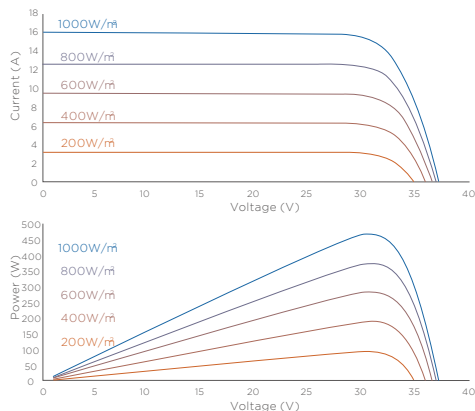
Maximum Power (Pmax/W)	343	347	351	355	358	362
Open Circuit Voltage (Voc/V)	35.05	35.14	35.24	35.33	35.43	35.53
Short Circuit Current (Isc/A)	12.41	12.50	12.59	12.68	12.76	12.84
Voltage at Maximum Power (Vmp/V)	29.45	29.55	29.65	29.76	29.86	29.97
Current at Maximum Power (Imp/A)	11.67	11.76	11.84	11.93	12.02	12.11

NOCT: AM1.5, 800W/m², 20°C, 1m/s.

Drawings



Characteristics(ASP475H-48BDG)



Electrical Parameters(BNPI*)

Output Power (Pmax/W)	504	510	515	521	527	533
Open Circuit Voltage (Voc/V)	36.85	36.95	37.05	37.15	37.25	37.35
Short Circuit Current (Isc/A)	17.42	17.54	17.66	17.79	17.91	18.03
Voltage at Maximum Power (Vmp/V)	30.94	31.05	31.16	31.27	31.38	31.49
Current at Maximum Power (Imp/A)	16.31	16.44	16.56	16.68	16.80	16.92

BNPI: AM1.5, 1000W/m², 135W/m², 25°C

Mechanical Characteristics

Weight	21.6 kg
Dimensions	1762×1134×30mm
Cell Dimensions	182×105mm
Cell Amount	48×2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Glass Thickness	Dual glass, 2.0mm
Frame	Anodized aluminum alloy frame
Cable	4mm ² ; +350/-250mm or customized; UV resistant
Connector	PV-H1 / MC4-Evo 2 / Others
Bifaciality	90±5%
Packing	36pcs/pallet, 936pcs/40'HQ Container

Temperature Characteristics

NMOT	44±2°C
Temp. Coefficient of Voc	-0.22%/°C
Temp. Coefficient of Isc	+0.04%/°C
Temp. Coefficient of Pmax	-0.24%/°C

Maximum Rating

Output Tolerance	0~+5W
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400Pa/5400Pa
Fuse Current	35A