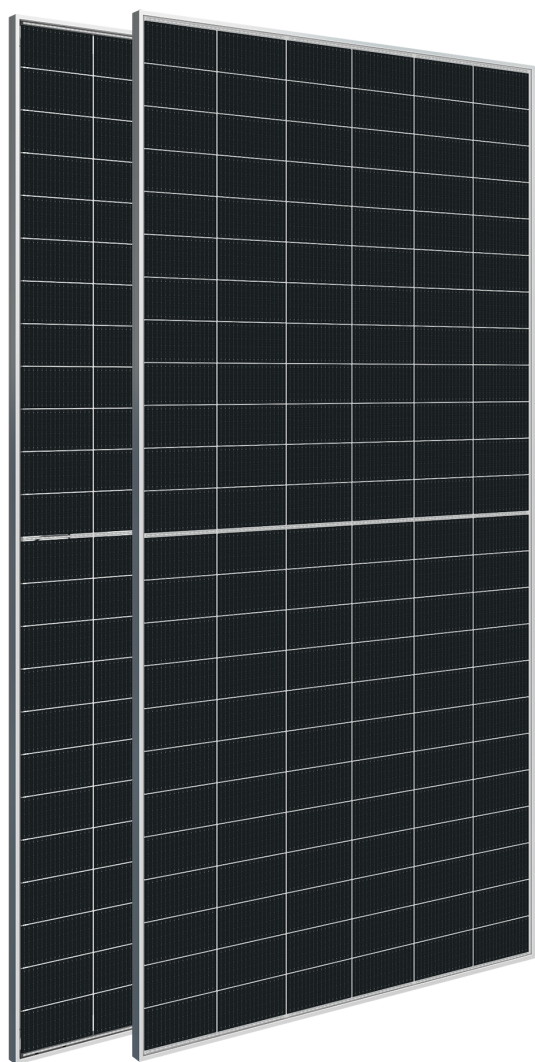




ABU-M72HL-DG

Bifacial Series

545~570W



SMBB Design

Half-cut cells brings lower cell connection loss and lower thermal coefficients to ensures higher power output



Excellent Low-light Performance

Advanced solar cell surface texturing technology allows for excellent performance in low-light environments



Highly Strengthened Design

Certified to withstand: 5400Pa snow load and 2400Pa wind load



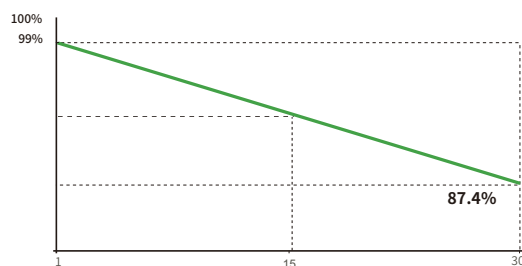
Highly Strengthened Design

Certified to withstand: 5400Pa snow load and 2400Pa wind load

Warranty

15 15-year Product Warranty

30 30-year Linear Power Warranty

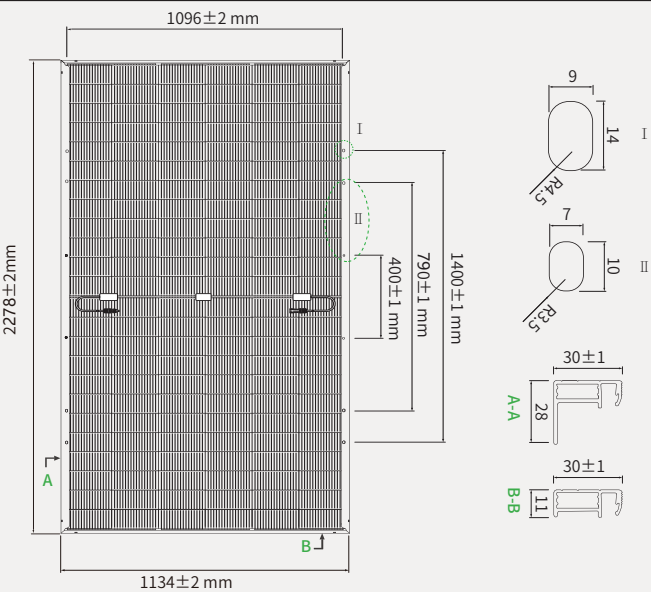


ISO9001:2015: Quality Management System
ISO14001:2015: Environmental Management System
ISO45001:2018: Occupational Health and Safety Management System

ABU-M72HL-DG 545~570W

Mechanical Specifications

Outer dimensions (L x W x H)	2278 x 1134 x 30 mm
Cell type	n-type mono-crystalline
No. of cells	144
Frame	Aluminum, silver anodized
Front / Back glass	2.0+2.0 mm
Junction box	IP68 (Three junction boxes)
Cable specification	+ 300 mm, - 300 mm(4.0mm ²); Customized length
Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Module weight	32kg
Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	1205kg
Modules per 40' HQ container	576 pcs (Subject to sales contract)



Electrical Specifications (STC)

Rated output (P _{mpp} / Wp)	545	550	555	560	565	570
Rated voltage (V _{mpp} / V)	42.32	42.59	42.76	42.95	43.13	43.31
Rated current (I _{mpp} / A)	12.88	12.92	12.98	13.04	13.10	13.16
Open circuit voltage (V _{oc} / V)	50.28	50.47	50.66	50.87	51.10	51.32
Short circuit current (I _{sc} / A)	13.67	13.73	13.79	13.85	13.91	13.97
Module efficiency	22.3%	22.5%	22.6%	22.8%	23.0%	23.2%
Output power tolerance	0 ~ + 3%					
Temperature coefficient (P _{mpp})	-0.29%/°C					
Temperature coefficient (V _{oc})	-0.25%/°C					
Temperature coefficient (I _{sc})	+0.045%/°C					

STC: Irradiance 1000W/m², Cell Temperature 25° C, AM=1.5

Electrical Specifications (BNPI)

Rated output (P _{mpp} / Wp)	595	600	605	610	615	620
Rated voltage (V _{mpp} / V)	42.56	42.87	43.18	43.49	43.80	44.11
Rated current (I _{mpp} / A)	13.98	14.00	14.01	14.03	14.05	14.06
Open circuit voltage (V _{oc} / V)	50.60	50.79	50.98	51.17	51.36	51.55
Short circuit current (I _{sc} / A)	14.83	14.89	14.95	15.01	15.07	15.13

BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25° C, AM=1.5

Application Requirements

Operating Temperature	-40°C ~ +85°C
Max. system voltage (IEC/UL)	1500V _{DC}
Max. series fuse rating	25A
Double-sided coefficient	φV _{oc} : 98±5 %, φI _{sc} : 80±5 %, φP _{max} : 80±5 %

Curve

