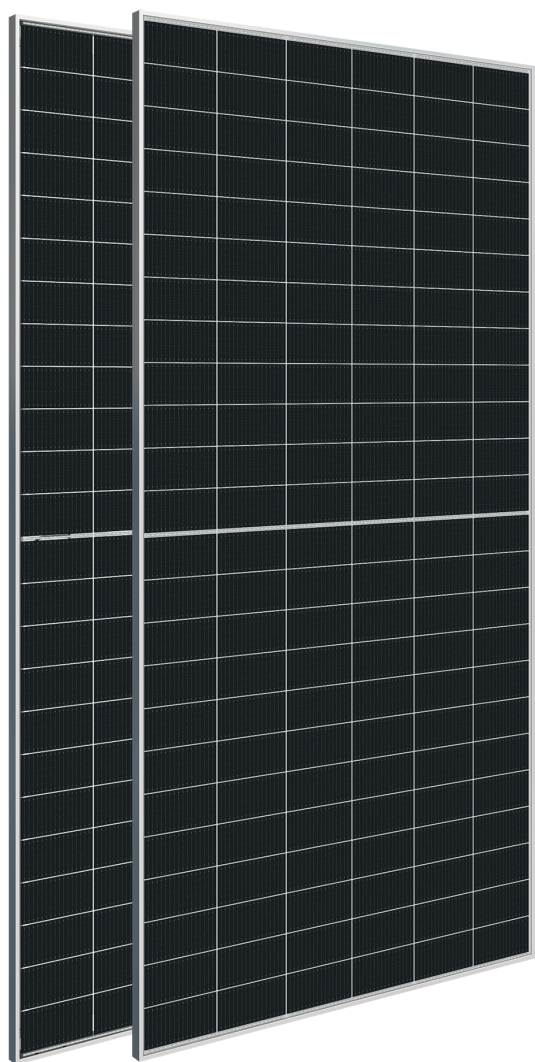




ABU-N72HL-DG

Bifacial Series

575~600W



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



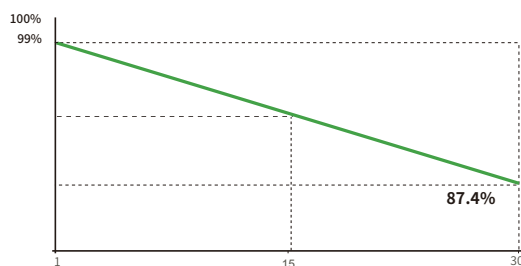
Highly Strengthened Design

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

Warranty

15 15-year Product Warranty

30 30-year Linear Power Warranty

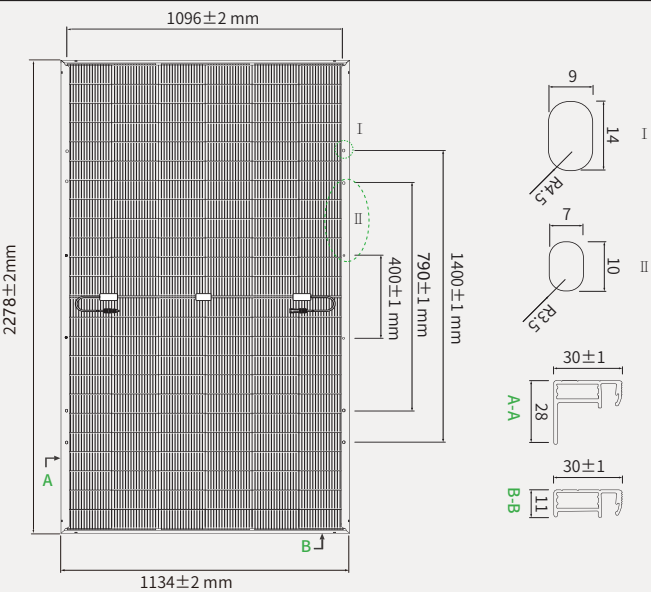


ISO9001:2015: Quality Management System
ISO14001:2015: Environmental Management System
ISO45001:2018: Occupational Health and Safety Management System

ABU-N72HL-DG 575~600W

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)	575	580	585	590	595	600
Rated voltage (V _{mpp} / V)	44.58	44.76	44.94	45.08	45.25	45.42
Rated current (I _{mpp} / A)	12.90	12.96	13.02	13.09	13.15	13.21
Open circuit voltage (V _{oc} / V)	52.60	52.81	52.98	53.12	53.25	53.39
Short circuit current (I _{sc} / A)	13.54	13.59	13.65	13.71	13.77	13.83
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)	635	640	645	650	655	660
Rated voltage (V _{mpp} / V)	45.33	45.49	45.62	45.75	45.87	46.15
Rated current (I _{mpp} / A)	14.01	14.07	14.14	14.21	14.28	14.31
Open circuit voltage (V _{oc} / V)	53.49	53.65	53.78	53.88	53.98	54.08
Short circuit current (I _{sc} / A)	14.70	14.76	14.82	14.89	14.95	15.01

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	30 A
Double-sided coefficient	φV _{oc} : 98±5 %, φI _{sc} : 80±5 %, φP _{max} : 80±5 %

Curve

