

132-cell Bifacial HJT Half Cell
Double-glass Solar Module

700-735W

AS700-735G12-132 Bifacial



HJT Technology

Combining gettering process and $\mu\text{c-Si}$ technology to ensure higher cell efficiency and higher module power



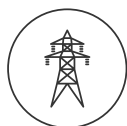
Up to 95% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside



Sealing with PIB

Integrated coating frames ensuring modules passing the IEC salt-mist test level 8



Suitable for Utility project

Lower BOS cost, lower LCOE

30 Year

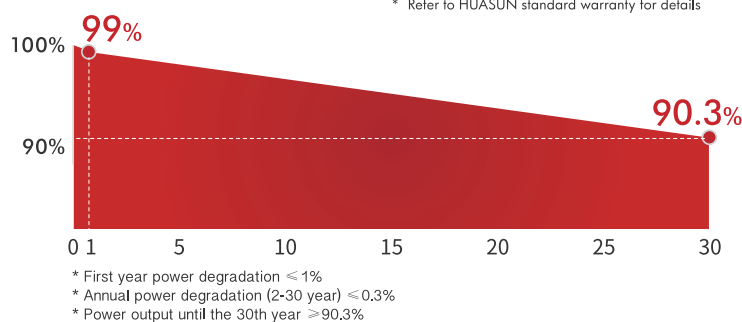
Warranty for Extra Linear Power Output

15 Year

Warranty for Materials and Processing

0.4%

Annual degradation



AS700-735G12-132 Bifacial

132-Half-Cell Bifacial HJT Module



Mechanical Characteristics

Cell Type	HJT
No. of Cells	132 (6x22)
Dimensions	2384 x 1303 x 33 mm
Weight	37.9kg
Junction Box	IP68
Cable	4mm ² ; +350/-250mm or customized; UV resistant
Connector	MC4 / MC4-Evo2A / PV-H4 / Z4S-abcd / ST4
Frame	Anodized aluminum alloy frame
Max Static Load (front side/rear side)	5400Pa / 2400Pa
Glass	Dual glass, 2.0mm

Electrical Characteristics

STC

	AS700 G12-132	AS705 G12-132	AS710 G12-132	AS715 G12-132	AS720 G12-132	AS725 G12-132	AS730 G12-132	AS735 G12-132
Maximum Power (P _{max} /W)	700	705	710	715	720	725	730	735
Module Efficiency (%)	22.5	22.7	22.9	23.0	23.2	23.3	23.5	23.7
Maximum Power Voltage (V _{mp} /V)	41.78	41.87	41.96	42.05	42.14	42.23	42.32	42.41
Maximum Power Current (I _{mp} /A)	16.76	16.84	16.93	17.02	17.10	17.18	17.26	17.34
Open Circuit Voltage (V _{oc} /V)	49.77	49.87	49.97	50.07	50.17	50.27	50.37	50.47
Short Circuit Current (I _{sc} /A)	17.81	17.90	17.99	18.08	18.17	18.26	18.35	18.44

STC: AM1.5, 1000W/m², 25°C.

BSTC

Maximum Power (P _{max} /W)	785	790	796	801	807	813	818	824
Maximum Power Voltage (V _{mp} /V)	41.92	42.02	42.11	42.20	42.29	42.38	42.47	42.56
Maximum Power Current (I _{mp} /A)	18.73	18.82	18.91	19.00	19.10	19.19	19.28	19.37
Open Circuit Voltage (V _{oc} /V)	49.94	50.04	50.14	50.24	50.34	50.44	50.54	50.65
Short Circuit Current (I _{sc} /A)	19.97	20.07	20.18	20.28	20.38	20.48	20.58	20.68

BSTC: AM1.5, 1000W/m², 135W/m², 25°C.

NOCT

Maximum Power (P _{max} /W)	534	538	542	545	549	553	557	561
Maximum Power Voltage (V _{mp} /V)	39.90	40.00	40.07	40.14	40.23	40.32	40.41	40.50
Maximum Power Current (I _{mp} /A)	13.39	13.46	13.53	13.60	13.67	13.73	13.79	13.86
Open Circuit Voltage (V _{oc} /V)	47.50	47.60	47.69	47.79	47.88	47.98	48.08	48.17
Short Circuit Current (I _{sc} /A)	14.23	14.31	14.38	14.45	14.52	14.59	14.67	14.74

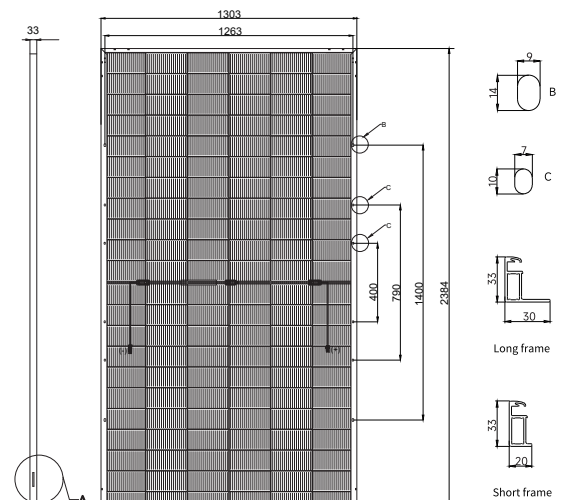
NOCT: AM1.5, 800W/m², 20°C, 1m/s.

Packaging

	40HQ
Modules Per Pallet	33
Pallets Per Container	18
Modules Per Container	594

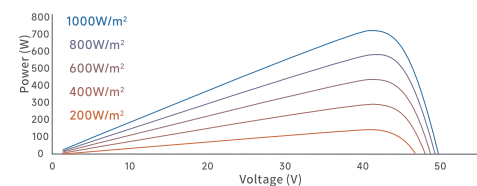
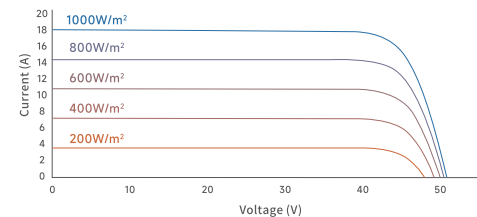
Engineering Drawings

Unit: mm



I-V Curve

AS700-735G12-132



Temperature Characteristics

Temperature Coefficient of P _{max}	-0.24%/°C
Temperature Coefficient of V _{oc}	-0.22%/°C
Temperature Coefficient of I _{sc}	+0.04%/°C

Operating Conditions

Nominal Operating Cell Temp.	44±2°C
Operating Temperature	-40~+85°C
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	35A
Tolerance of P _{max}	0~+3%
Power Selection	0~+5W
Bifaciality	90±5%
Safety Class	Class II

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