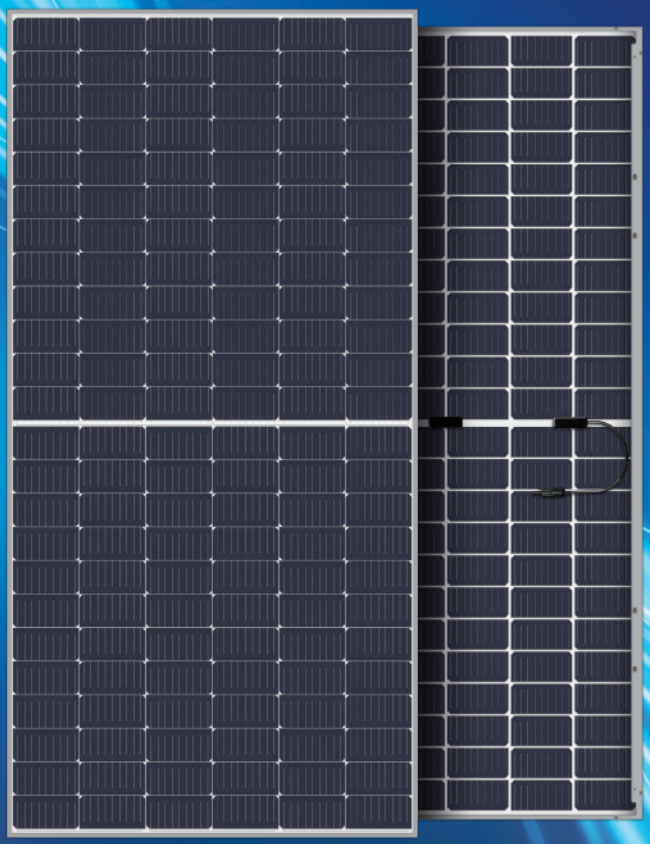
AKCOME

AK iPower

N-Type HJT Module



460-480W

SK8612HDGDC

HJT 9BB Half-cut Bifacial Dual-Glass Module

N-type HJT technology for lower LCOE

The lower temperature coefficient and better low irradiance performance of HJT technology can effectively reduce LCOE.

Fire class A, harsh environment adaptability

The back of the dual-glass module adopts high transparent glass, which can adapt to all kinds of harsh environment, and the fire rating can reach Class A.

30-year power warranty

The average life of dual-glass modules is 30 years, 5 years longer than that of single-glass modules.

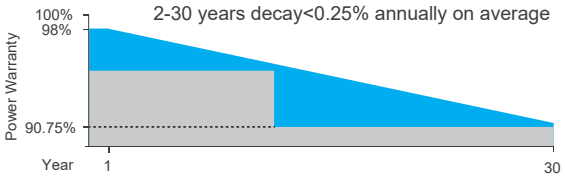
Double-sided power generation, higher income

The dual-glass module has a bifaciality up to 90% and a power generation gain of 7%-30% on the back side.

LINEAR PERFORMANCE WARRANTY

12 years — Product warranty on materials and workmanship

30 years — Linear power output warranty



CERTIFICATES

ISO 9001: 2015
Quality Management System

ISO 14001: 2015
Environmental Management System

IEC 61215 / IEC 61730

OHSAS 18001: 2007
Occupational Health & Safety Managemnet System

*Certification requirements vary in different markets, please consult with Akcome Optronics sales team for appropriate certification.

460-480W

HJT 9BB Half-cut Bifacial
Dual-Glass Module

ELECTRICAL PARAMETERS @ STC

Max. Power Output Pmax (W)	460	465	470	475	480
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Max. Power Voltage Vmp (V)	45.30	45.50	45.70	45.90	46.10
Max. Power Current Imp (A)	10.15	10.22	10.28	10.35	10.41
Open Circuit Voltage Voc (V)	53.35	53.65	53.95	54.25	54.55
Short Circuit Current Isc (A)	10.94	10.98	11.02	11.06	11.10
Module Efficiency (%)	21.16	21.39	21.62	21.85	22.08

*STC (Standard Test Condition): Irradiance 1000W/m² , Cell Temperature 25°C, Air Mass 1.5
*Measurement Tolerance (±3.0%)

Inegrated Power @ STC (Refrence to 465W front)

Power Gains	5%	10%	15%	20%	25%
Max. Power Output Pmax (W)	488	512	534	557	580
Max. Power Voltage Vmp (V)	45.50	45.50	45.40	45.40	45.40
Max. Power Current Imp (A)	10.73	11.24	11.75	12.26	12.77
Open Circuit Voltage Voc (V)	53.65	53.65	53.75	53.75	53.75
Short Circuit Current Isc (A)	11.53	12.08	12.63	13.18	13.73

TEMPERATURE COEFFICIENTS

Temperature Coefficients of Pmp	-0.24%/ °C
Temperature Coefficients of Voc	-0.22%/ °C
Temperature Coefficients of Isc	+0.047%/ °C

MECHANICAL PARAMETERS

Cell Type	HJT 166x83mm
Number of Cells	144pcs(6x24)
Dimensions (L*W*H)	2094x1038x30mm
Weight	27.5kg
Frame	Anodised Aluminum
Junction Box	IP68, 3 bypass diodes
Cable, Length	4.0mm² , 300mm

OPERATING CONDITION

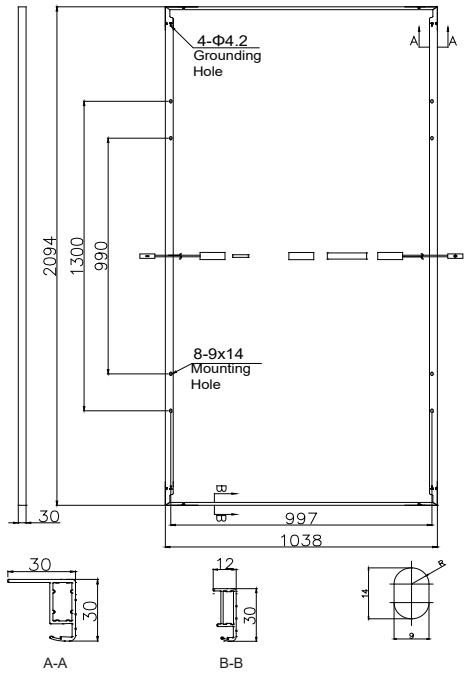
Maximum System Voltage(V)	1500(DC)
Operating Temperature(°C)	-40~+85
Max. Wind Load / Snow Load(Pa)	2400/5400
Max. Series Fuse Rating(A)	20
Fire Rating	Class A
Bifaciality	90±5%
NOCT	45 °C

PACKAGE INFORMATION

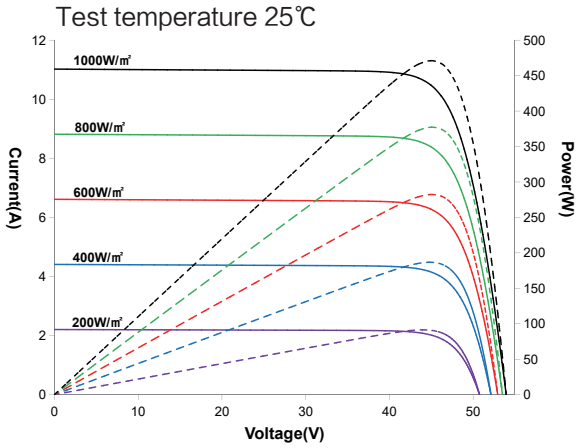
Container 40'HQ	814pcs
Quantity / Pallet	35pcs
Package size: 2149×1124×1184mm; Net weight: 962.5kg; Gross weight: 1008.5kg	

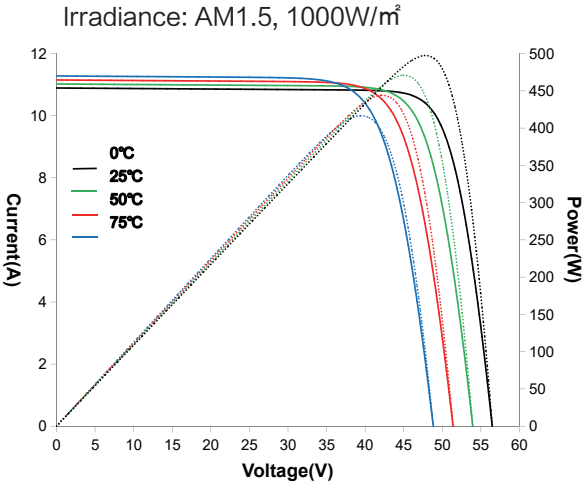
Ver: 20221201

ASSEMBLY DRAWING (Unit:mm)



I-V CURVES





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