

High-efficiency HJT Bifacial Dual-glass Modules

Maximum
system voltage
1500V
Certified by IEC



72pcs

MONO-CRYSTALLINE HJT
DOUBULE-SIDED
DUAL-GLASS MUOUDULES

365-400W

POWER OUTPUT RANGE

20.42%

MAXIMUM EFFICIENCY

0~+5W

POSITIVE POWER TOLERANCE

High efficiency hetero-junction double-sided dual-glass module uses high efficiency mono-crystalline hetero-junction solar cell technology, which has double-sided power generation, high conversion efficiency, high stability and excellent high temperature characteristics. The structure is that P-type thin film silicon and N-type thin film silicon are deposited on N-type mono-crystalline silicon wafer, and a layer of non-hetero (intrinsic) hydrogenated silicon film is added between N-type mono-crystalline silicon substrate. This process changes and improves the performance of PN junction, so that the power generation per unit area of high-efficiency hetero-junction double-sided dual-glass module solar cells reaches the leading level in the world, and it is the most cost-effective solar cell in commercialization at present.

PRODUCTS

CIE-H5C1-72-DA2

INSTALLATION
METHODS

Clamp

POWER
RANGE

365-400W



High conversion efficiency

- Adopting heterojunction ultra-high efficiency double-sided battery conversion efficiency technology
- Maximum battery efficiency on the front > 23.5%, Maximum battery efficiency on the back > 22%



Higher power generation benefits

- Excellent weak light performance, improve the power output in the morning, evening and cloudy days
- Ultra-low temperature coefficient, reducing the power generation loss by 34% in the high temperature environment
- Unique junction box design to achieve zero occlusion on the back, increasing the overall power generation



Low cost of kilowatt-hour electricity

- Higher maximum system voltage reduces BOS costs
- 35 year linear warranty, 0.3% annual degradation
- Maximize the efficiency of limited space and save BOS and labor costs



Wide application

- Deployable for ground mounted utility, greenhouse and agricultural projects
- Special application like sound barriers on expressways
- Compatible with major tracker systems



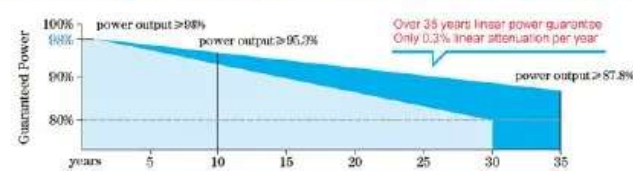
Certified to withstand the most challenging environmental conditions

- Module coating resistant to sand, acid, and alkali
- 2400 Pa wind load
- 5400 Pa snow load
- 35 mm nail stones at 97 km/h

Comprehensive Products And System Certificates



Linear function guarantee curve of HJT double-sided dual-glass module



High-efficiency HJT Bifacial & Dual-glass Modules

72 pcs Mono-crystalline
HJT Double-sided Dual-glass Modules

ELECTRICAL DATA (STC)

Peak Power Watts- P_{max} (Wp)*	365	370	375	380	385	390	395	400
Power Output Tolerance- P_{max} (W)	0 ~ +5							
Maximum Power Voltage- V_{mp} (V)	43.13	43.36	43.51	43.76	43.91	44.08	44.14	44.30
Maximum Power Current- I_{mp} (A)	8.48	8.55	8.64	8.70	8.79	8.86	8.95	9.05
Open Circuit Voltage- V_{oc} (V)	51.75	52.10	52.36	52.53	52.74	52.90	53.15	53.30
Short Circuit Current- I_{sc} (A)	9.06	9.15	9.24	9.31	9.40	9.48	9.58	9.68
Module Efficiency η_m (%)	18.639	18.895	19.150	19.405	19.661	19.916	20.172	20.427

STC: AM=1.5 Irradiance=1000W/m² Temp=25°C

DOUBLE-SIDEDE POWER GENERATION PARAMETERS(INTEGRATED POWER)

Maximum Power- P_{max} (WP)	405	410	415	420	425	430	435	458
Maximum Power Voltage- V_{mp} (V)	42.35	42.58	42.73	42.97	43.12	43.28	43.34	44.65
Maximum Power Current- I_{mp} (A)	9.63	9.71	9.81	9.88	9.98	10.06	10.17	10.27
Open Circuit Voltage- V_{oc} (V)	51.93	52.28	52.54	52.71	52.92	53.08	53.33	53.48
Short Circuit Current- I_{sc} (A)	10.300	10.385	10.487	10.567	10.669	10.760	10.873	10.987

BSTC: AM=1.5 Irradiance=1000+ ϕ +1.35W/m² Temp=25°C

MECHANICAL DATA

Solar Cells	HJT 156.75 x 156.75mm
Cell Orientation	a set of 72 pcs (6 x 12)
Module Dimensions	1974 x 992 x 5.5mm (bare glass module dimensions) 1978 x 996 x 5.5mm (containing edge EVA spillover) 1980 x 998 x 6.6mm (containing protection angle)
Weight	23.3kg
Front Glass	2mm, high permeability, antireflection coating and semi-toughened glass (or 2.5mm specifications)
Packaging materials	POE
Back Glass	2.5mm white mesh, semi-toughened glass (or 2mm specifications)
Frame	no aluminum frame
J-Box	Protection level IP67, IP68, including three diodes
Cables	225+225mm, customizable long cable, 4.0mm ² photovoltaic cable
Connector	MC4 compatible type

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	43 ± 2°C
Temperature Coefficient of P_{max}	-0.27%/°C
Temperature Coefficient of V_{oc}	-0.262%/°C
Temperature Coefficient of I_{sc}	0.04%/°C

WARRANTY

- 10 year Product Workmanship Warranty
- 35 year Linear Power Warranty

(Please refer to product warranty for details)

MAXIMUM RATINGS

Operational Temperature	-40~+85° C
Maximum System Voltage	1500V DC (IEC) 1000V DC (UL)
Max Series Fuse Rating	15A

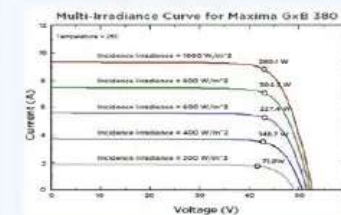
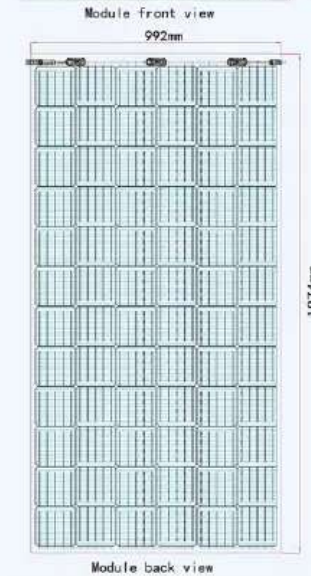
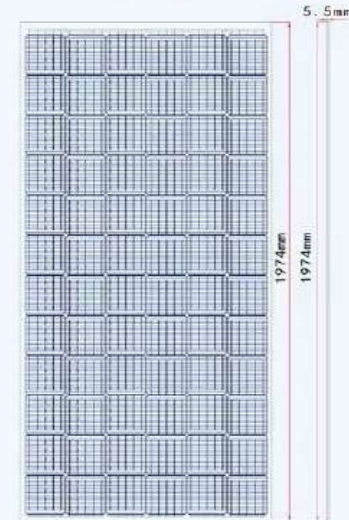
(DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection)

PACKAGING CONFIGURATION

- Modules per box: 38 pieces
- Modules per 40' container: 836 pieces

(Adjustment according to actual shipment)

PRODUCTS	INSTALLATION METHODS	POWER RANGE
CIE-H5C1-72-DA2	Clamp	365-400W



I-V Curve of Modules (380W)