

Harvest the Sunshine

610W

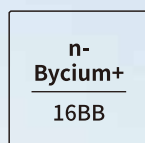


JA SOLAR

JAM72D40 MB

n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



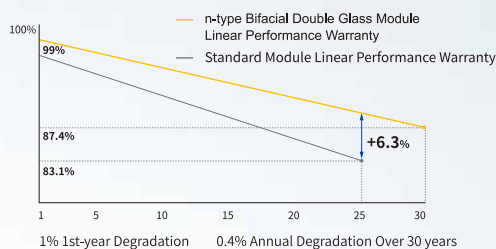
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



12-year product
warranty



30-year linear power
output warranty

*Remark: The performance warranty applies at STC condition.

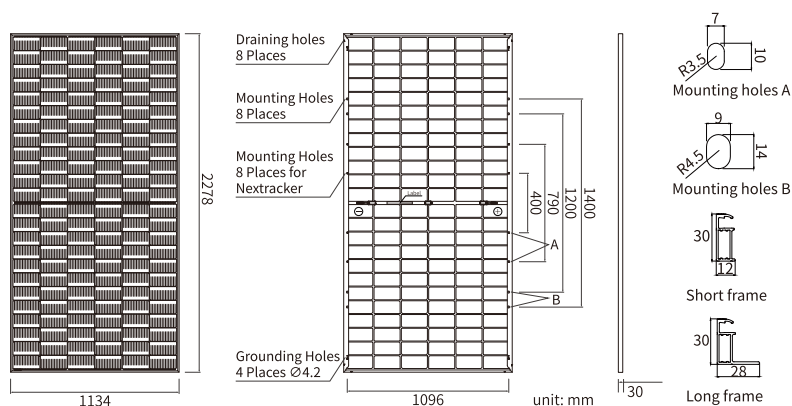
Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM72D40 MB n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	31.8kg
Dimensions	2278mm×1134mm×30mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	Stäubli PV-KST4-EVO2A/xy,PV-KBT4-EVO2A/xy QC Solar QC4.10-351/ QC4.10-35
Cable Length (Including Connector)	Portrait: 400mm(+)/200mm(-) Landscape: 1300mm(+)/1300mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container
Country of Manufacturer	China/Vietnam
Remark: customized frame color and cable length available upon request	

ELECTRICAL PARAMETERS AT STC and BNPI

TYPE	JAM72D40 -585/MB STC BNPI	JAM72D40 -590/MB STC BNPI	JAM72D40 -595/MB STC BNPI	JAM72D40 -600/MB STC BNPI	JAM72D40 -605/MB STC BNPI	JAM72D40 -610/MB STC BNPI
Rated Maximum Power(P _{max}) [W]	585 645	590 650	595 655	600 660	605 665	610 673
Open Circuit Voltage (V _{oc}) [V]	52.16 52.16	52.37 52.37	52.58 52.58	52.79 52.79	53.00 53.00	53.75 53.75
Maximum Power Voltage(V _{mp}) [V]	44.22 44.22	44.43 44.43	44.64 44.64	44.85 44.85	45.05 45.05	45.26 45.26
Short Circuit Current(I _{sc}) [A]	13.89 15.32	13.94 15.36	13.99 15.40	14.04 15.44	14.09 15.49	14.14 15.61
Maximum Power Current(I _{mp}) [A]	13.23 14.59	13.28 14.63	13.33 14.68	13.38 14.72	13.43 14.77	13.48 14.88
Module Efficiency [%]	22.6	22.8	23.0	23.2	23.4	23.6
Short Circuit Current (I _{sc}) [A] at BSI	17.10	17.13	17.16	17.20	17.23	17.41
Power Tolerance	0~+3%					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.045%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.250%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.290%/°C					
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G					
BNPI	Front Irradiance 1000W/m ² , rear Irradiance 135W/m ²					
BSI	Front Irradiance 1000W/m ² , rear Irradiance 300W/m ²					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.

They only serve for comparison among different module types.

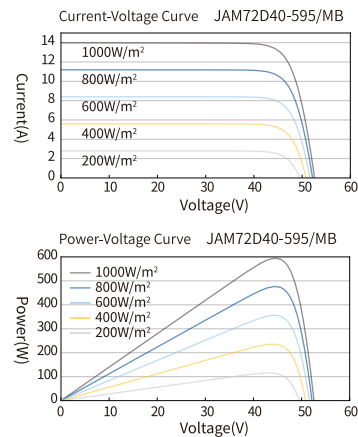
Measurement tolerance at STC and BNPI:P_{max}±3%, V_{oc}±3%, I_{sc}±5% and the tolerance of I_{sc} at BSI: ±5%.

ELECTRICAL CHARACTERISTICS WITH 10% Bifacial Gains and Low Irradiance Of 200W/m²

TYPE	JAM72D40 -585/MB 10% 200W/m ²	JAM72D40 -590/MB 10% 200W/m ²	JAM72D40 -595/MB 10% 200W/m ²	JAM72D40 -600/MB 10% 200W/m ²	JAM72D40 -605/MB 10% 200W/m ²	JAM72D40 -610/MB 10% 200W/m ²
Rated Max Power(P _{max}) [W]	644 113.73	649 114.43	655 115.49	660 116.27	666 117.16	671 118.01
Open Circuit Voltage(V _{oc}) [V]	52.16 49.21	52.37 49.31	52.58 49.61	52.79 49.71	53.00 49.91	53.75 50.47
Max Power Voltage(V _{mp}) [V]	44.22 42.71	44.43 42.81	44.64 43.06	44.85 43.17	45.05 43.34	45.26 43.59
Short Circuit Current(I _{sc}) [A]	15.28 2.78	15.33 2.79	15.39 2.80	15.44 2.81	15.50 2.82	15.55 2.83
Max Power Current(I _{mp}) [A]	14.55 2.66	14.61 2.67	14.66 2.68	14.72 2.69	14.77 2.70	14.83 2.71
Irradiation Ratio (rear/front)	10%					
Low Irradiance	(200±2) W/m ² , module at (25±2) °C					

** For NexTracker installations, maximum static load please take compatibility approve letter between JA Solar and NexTracker for reference.

CHARACTERISTICS



OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+70°C
Maximum Series Fuse Rating	30A
Maximum Static Load, Front*	3600Pa,1.5
Maximum Static Load, Back*	1600Pa,1.5
NOCT	45±2°C
Bifaciality	φP _{max} (80±5)%,φV _{oc} (98±5)%,φI _{sc} (80±5)%
Safety Class	Class II
Fire Performance	Class C

*PV module 98th percentile operating temperature : 70°C



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Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.

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