JA SOLAR

Harvest the Sunshine

620W

JAM72D40 LB

n-type Double Glass Bifacial Modules

Premium Cells

n-Bycium+ 16BB

MBB Half-Cell Technology

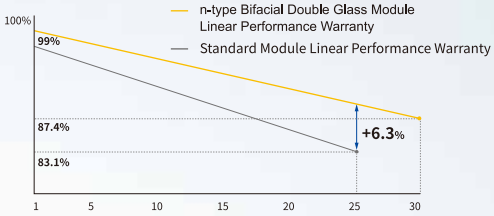
26%

Up To

Cell Conversion Efficiency

Premium Modules

- Higher power generation better LCOE
- n-type with very Lower LID
- Better Temperature Coefficient
- Better low irradiance response



1% 1st-year Degradation 0.4% Annual Degradation Over 30 years

12-year product warranty

30-year linear power output warranty

*Remark: The performance warranty applies at STC condition.

Comprehensive Certificates

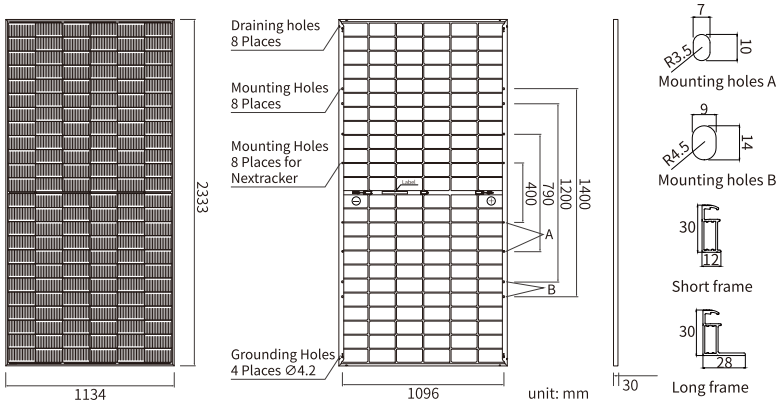
- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM72D40 LB n-type Double Glass Bifacial Modules

DEEP BLUE 4.0 Pro



MECHANICAL PARAMETERS

Cell	Mono
Weight	32.5kg
Dimensions	2333mm×1134mm×30mm
Cable Cross Section Size	4mm²(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: 1400mm(+)/1400mm(-)
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 -595/LB STC	JAM72D40 -595/LB BNPI	JAM72D40 -600/LB STC	JAM72D40 -600/LB BNPI	JAM72D40 -605/LB STC	JAM72D40 -605/LB BNPI	JAM72D40 -610/LB STC	JAM72D40 -610/LB BNPI	JAM72D40 -615/LB STC	JAM72D40 -615/LB BNPI	JAM72D40 -620/LB STC	JAM72D40 -620/LB BNPI
Rated Maximum Power(Pmax) [W]	595	655	600	660	605	665	610	670	615	675	620	680
Open Circuit Voltage (Voc) [V]	52.20	52.20	52.40	52.40	52.60	52.60	52.80	52.80	53.00	53.00	53.20	53.20
Maximum Power Voltage(Vmp) [V]	43.59	43.59	43.76	43.76	43.94	43.94	44.11	44.11	44.28	44.28	44.44	44.44
Short Circuit Current(Isc) [A]	14.42	15.87	14.48	15.93	14.53	15.97	14.57	16.01	14.61	16.04	14.65	16.07
Maximum Power Current(Imp) [A]	13.65	15.03	13.71	15.09	13.77	15.14	13.83	15.19	13.89	15.25	13.95	15.31
Module Efficiency [%]	22.5		22.7		22.9		23.1		23.2		23.4	
Short Circuit Current (Isc) [A] at BSI	17.69		17.74		17.78		17.92		17.94		17.96	
Power Tolerance	0~+3%											
Temperature Coefficient of Isc(α_Isc)	+0.045%/°C											
Temperature Coefficient of Voc (β_Voc)	-0.250%/°C											
Temperature Coefficient of Pmax(γ_Pmp)	-0.290%/°C											
STC	Irradiance 1000W/m², cell temperature 25°C, AM1.5G											
BNPI	Front Irradiance 1000W/m², rear Irradiance 135W/m²											
BSI	Front Irradiance 1000W/m², rear Irradiance 300W/m²											

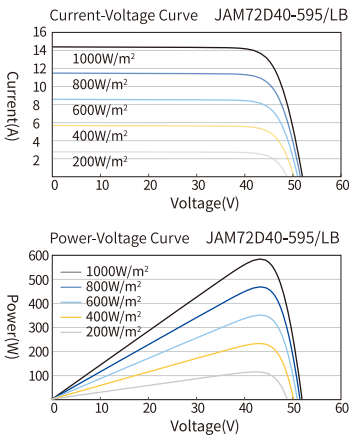
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.
They only serve for comparison among different module types.
Measurement torlerance at STC and BNPI:Pmax±3%, Voc±3%,and Isc±5%.and the tolerance of Isc at BSI：±5%.

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

TYPE	JAM72D40 -595/LB 10%	JAM72D40 -595/LB 200W/m²	JAM72D40 -600/LB 10%	JAM72D40 -600/LB 200W/m²	JAM72D40 -605/LB 10%	JAM72D40 -605/LB 200W/m²	JAM72D40 -610/LB 10%	JAM72D40 -610/LB 200W/m²	JAM72D40 -615/LB 10%	JAM72D40 -615/LB 200W/m²	JAM72D40 -620/LB 10%	JAM72D40 -620/LB 200W/m²
Rated Max Power(Pmax) [W]	643	115.88	648	117.75	653	118.63	659	119.43	664	120.27	670	121.22
Open Circuit Voltage(Voc) [V]	52.20	49.13	52.40	49.33	52.60	49.52	52.80	49.71	53.00	49.90	53.20	50.09
Max Power Voltage(Vmp) [V]	43.59	42.51	43.76	42.68	43.94	42.85	44.11	43.02	44.28	43.20	44.44	43.39
Short Circuit Current(Isc) [A]	15.57	2.88	15.64	2.90	15.69	2.91	15.74	2.91	15.78	2.92	15.82	2.93
Max Power Current(Imp) [A]	14.74	2.73	14.81	2.76	14.87	2.77	14.94	2.78	15.00	2.78	15.07	2.79
Irradiation Ratio (rear/front)	10%											
Low Irradiance	(200±2) W/m² ,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	φPmax(80±5)%,φVoc(98±5) %,φIsc (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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