

Harvest the Sunshine

JA SOLAR

640W



JAM72D42 LB n-type Double Glass Bifacial Modules

Premium Cells

n-
Bycium+
16BB

MBB Half-Cell
Technology

26%

Up To

Cell Conversion
Efficiency

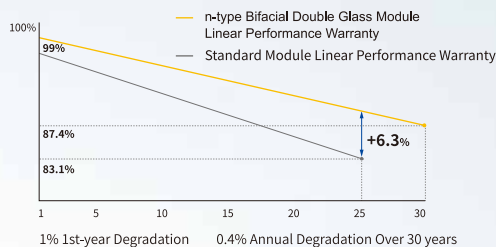
Premium Modules

Higher power
generation better LCOE

LID n-type with very
Lower LID

Better Temperature
Coefficient

Better low irradiance
response



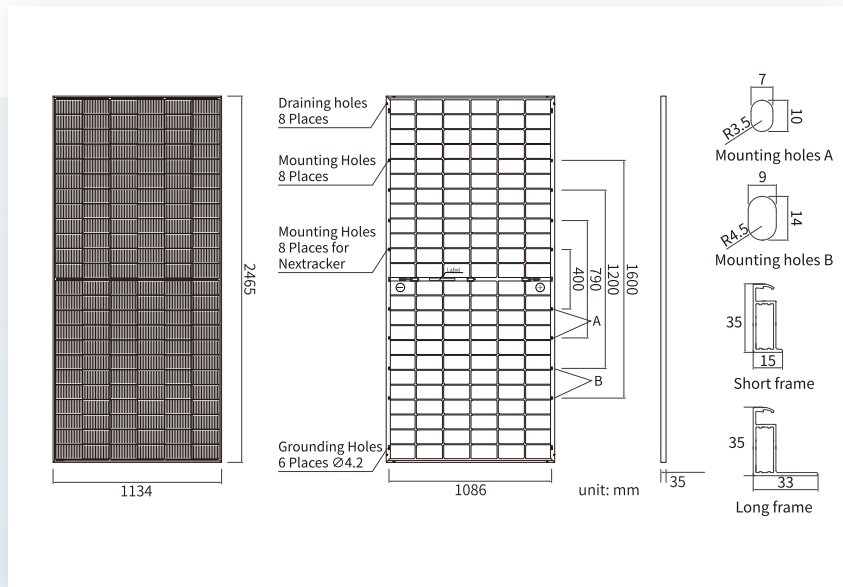
12 12-year product warranty

30 30-year linear power output warranty

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





MECHANICAL PARAMETERS

Cell	Mono
Weight	34.6kg
Dimensions	2465×1134mm×35mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	QC Solar QC4.10-351/QC4.10-35 Stäubli PV-KST4-EVO2A/xy ,PV-KBT4-EVO2A/xy
Cable Length (including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1500mm(+)/1500mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 576pcs/40HQ Container
Country of Manufacturer	China/Vietnam

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC and BNPI

TYPE	JAM72D42 -615/LB		JAM72D42 -620/LB		JAM72D42 -625/LB		JAM72D42 -630/LB		JAM72D42 -635/LB		JAM72D42 -640/LB	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Rated Maximum Power(Pmax) [W]	615	675	620	680	625	685	630	695	635	700	640	705
Open Circuit Voltage (Voc) [V]	51.87	51.87	52.07	52.07	52.27	52.27	52.47	52.47	52.67	52.67	52.87	52.87
Maximum Power Voltage(Vmp) [V]	43.31	43.31	43.51	43.51	43.71	43.71	43.90	43.90	44.10	44.10	44.29	44.29
Short Circuit Current(Isc) [A]	15.06	16.53	15.11	16.58	15.16	16.62	15.21	16.78	15.26	16.82	15.31	16.87
Maximum Power Current(Imp) [A]	14.20	15.59	14.25	15.63	14.30	15.68	14.35	15.84	14.40	15.88	14.45	15.92
Module Efficiency [%]	22.0		22.2		22.4		22.5		22.7		22.9	
Short Circuit Current (Isc) [A]at BSI	18.49		18.53		18.56		18.71		18.75		18.78	
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/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											

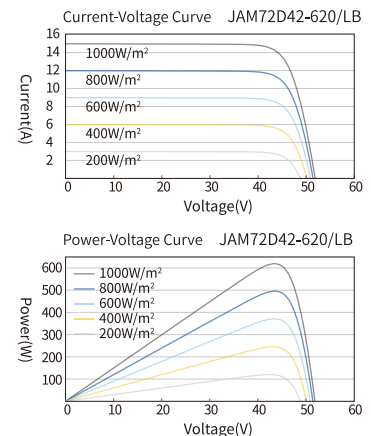
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types. Measurement tolerance at STC and BNPI: Pmax ±3%, Voc ±3% and Isc ±5%.

ELECTRICAL CHARACTERISTICS WITH 10% Bifacial Gains

TYPE	JAM72D42 -615/LB	JAM72D42 -620/LB	JAM72D42 -625/LB	JAM72D42 -630/LB	JAM72D42 -635/LB	JAM72D42 -640/LB
	Rated Max Power(Pmax) [W]	676.5	682.0	687.5	693.0	698.5
Open Circuit Voltage(Voc) [V]	51.87	52.07	52.27	52.47	52.67	52.87
Max Power Voltage(Vmp) [V]	43.31	43.51	43.71	43.90	44.10	44.29
Short Circuit Current(Isc) [A]	16.57	16.62	16.68	16.73	16.79	16.84
Max Power Current(Imp) [A]	15.62	15.68	15.73	15.79	15.84	15.90

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

CHARACTERISTICS



OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°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	ϕ Pmax (80±10)%, ϕ Voc (98±5)%, ϕ Isc (80±10)%
Safety Class	Class II
Fire Safety Class	Class C

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

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