

# Harvest the Sunshine

# JA SOLAR

# 640W



## JAM72D42 LB n-type Double Glass Bifacial Modules

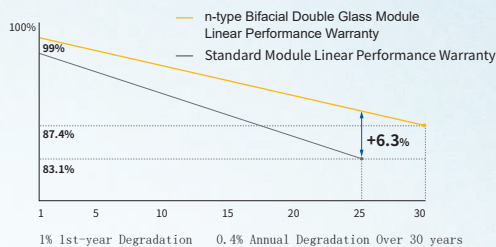
### Premium Cells

n-  
**Bycium+**  
16BB

MBB Half-Cell  
Technology

### Premium Modules

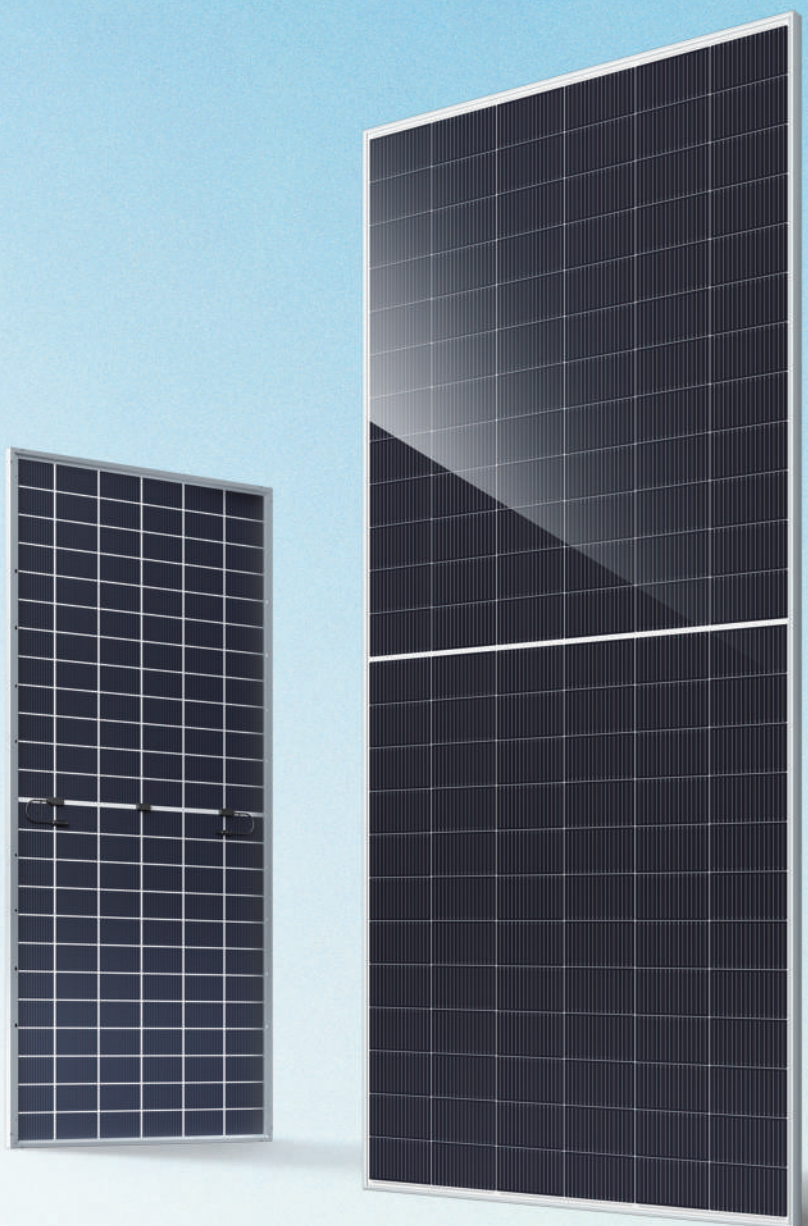
- Higher power generation better LCOE
- LID n-type with very Lower LID
- Better Temperature Coefficient
- Better low irradiance response



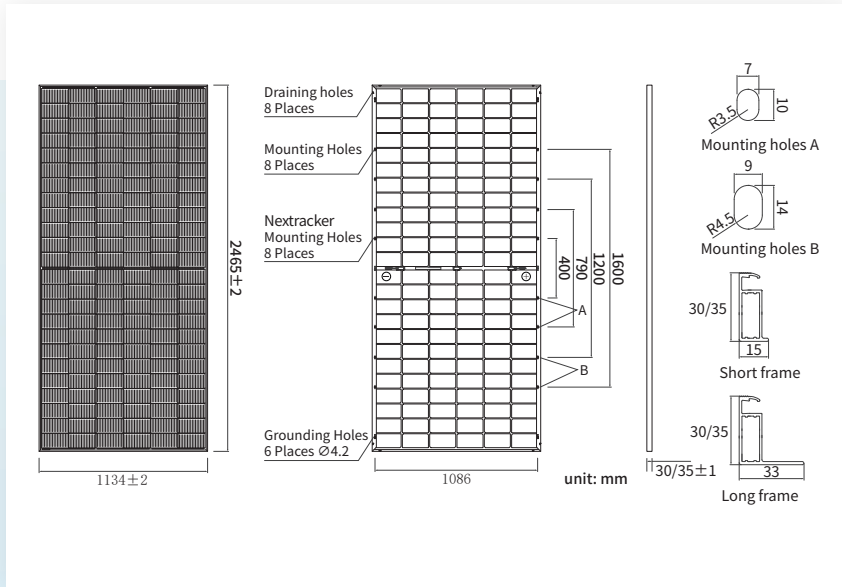
- 12-year product warranty
- 30-year linear power output warranty

### 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



**DEEP BLUE 4.0** Pro



### MECHANICAL PARAMETERS

Cell	Mono
Weight	34.6kg
Dimensions	2465±2mm × 1134±2mm × 30/35±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	Stäubli MC4-EVO2A/MC4-EVO2 QC Solar QC 4.10-351/QC 4.10-35
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1500mm(+)/1500mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Country of Manufacturer	China/Vietnam

Remark: customized frame color and cable length available upon request

### ELECTRICAL PARAMETERS AT STC

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]	14.20	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 <sub>Isc</sub> )	+0.046%/°C											
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.260%/°C											
Temperature Coefficient of Pmax(γ <sub>Pmp</sub> )	-0.290%/°C											
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G											

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%.

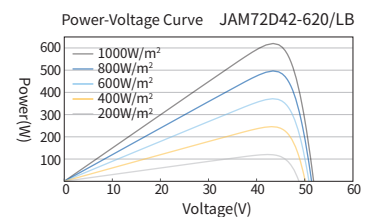
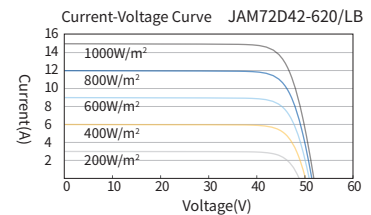
### ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM72D42 615/LB	JAM72D42 620/LB	JAM72D42 625/LB	JAM72D42 630/LB	JAM72D42 635/LB	JAM72D42 640/LB
	Rated Max Power(Pmax) [W]	664	670	675	680	686
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]	16.26	16.32	16.37	16.43	16.48	16.53
Max Power Current(Imp) [A]	15.34	15.39	15.44	15.50	15.55	15.61
Irradiation Ratio (rear/front)	10%					

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

\*\* Bifaciality=Pmax, rear/Rated Pmax, front

### 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**	80%±10%
Fire Safety Class	Class C