

Harvest the Sunshine

JA SOLAR

640W



JAM72D42 LB n-type Double Glass Bifacial Modules

Premium Cells

**n-
Bycium+
16BB**

MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

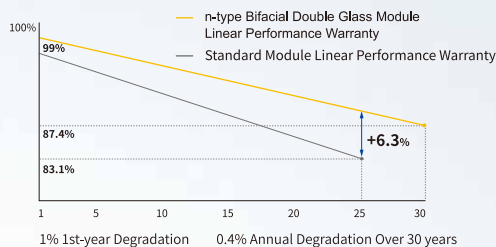
Premium Modules

Higher power
generation better LCOE

n-type with very
Lower LID

Better Temperature
Coefficient

Better low irradiance
response



12-year product
warranty

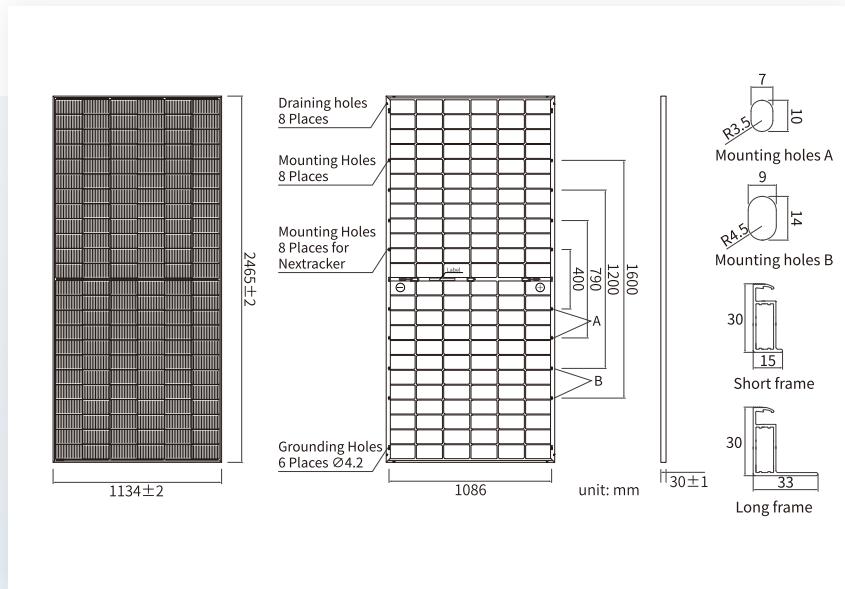
30-year linear power
output warranty

Comprehensive Certificates

- IEC 61215, IEC 61730, UL 61215, UL 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



MECHANICAL PARAMETERS

Cell	Mono
Weight	34.6kg
Dimensions	2465±2mm × 1134±2mm × 30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EVO2A
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

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
Rated Maximum Power(Pmax) [W]	615	620	625	630	635	640
Open Circuit Voltage (Voc) [V]	51.87	52.07	52.27	52.47	52.67	52.87
Maximum Power Voltage(Vmp) [V]	43.31	43.51	43.71	43.90	44.10	44.29
Short Circuit Current(Isc) [A]	15.06	15.11	15.16	15.21	15.26	15.31
Maximum Power Current(Imp) [A]	14.20	14.25	14.30	14.35	14.40	14.45
Module Efficiency [%]	22.0	22.2	22.4	22.5	22.7	22.9
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					

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.

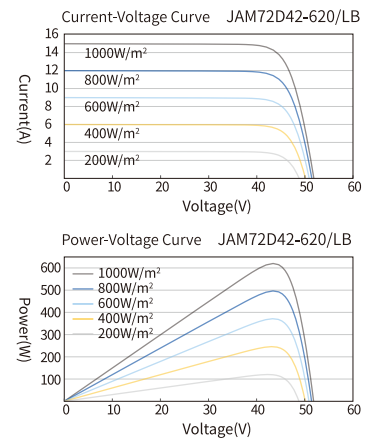
ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

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	691
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 Nextracker installations, maximum static load please take compatibility approve letter between JA Solar and Nextracker 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*	5400Pa(112 lb/ft ²)
Maximum Static Load, Back*	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Bifaciality**	80%±10%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

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

Version No. : Global-EN-20240423A