

Harvest the Sunshine

JA SOLAR

650W



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



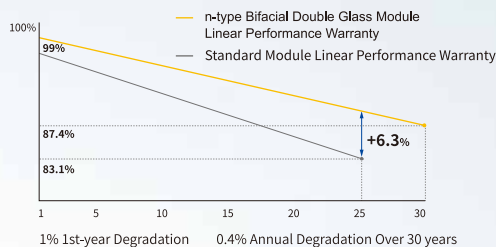
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



12 12-year product warranty

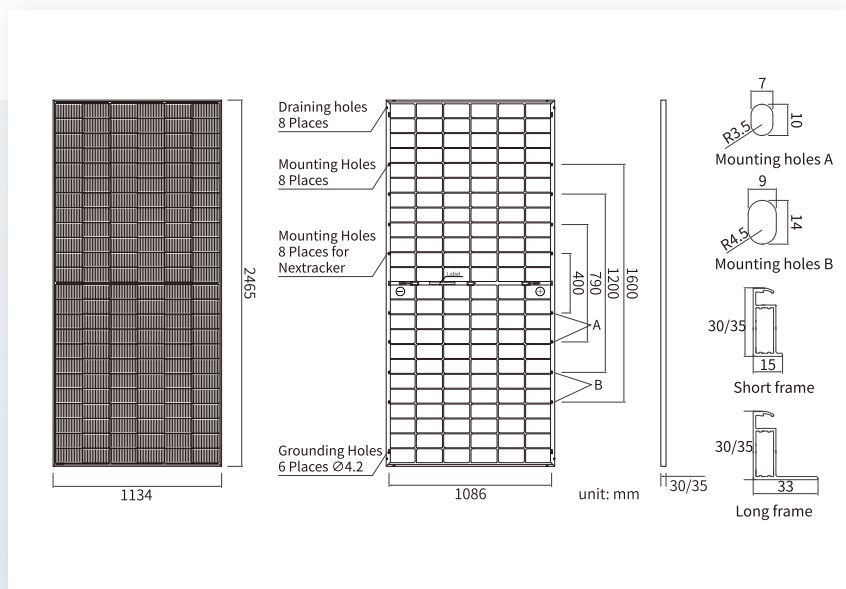
30 30-year linear power output warranty

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



DEEP BLUE 4.0 Pro



MECHANICAL PARAMETERS

Cell	Mono
Weight	34.6kg
Dimensions	2465 × 1134mm × 30/35mm
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 -625/LB		JAM72D42 -630/LB		JAM72D42 -635/LB		JAM72D42 -640/LB		JAM72D42 -645/LB		JAM72D42 -650/LB	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Rated Maximum Power(Pmax) [W]	625	685	630	695	635	700	640	705	645	710	650	715
Open Circuit Voltage (Voc) [V]	52.27	52.27	52.47	52.47	52.67	52.67	52.87	52.87	53.07	53.07	53.27	53.27
Maximum Power Voltage(Vmp) [V]	43.71	43.71	43.90	43.90	44.10	44.10	44.29	44.29	44.49	44.49	44.67	44.67
Short Circuit Current(Isc) [A]	15.16	16.62	15.21	16.78	15.26	16.82	15.31	16.87	15.36	16.91	15.41	16.95
Maximum Power Current(Imp) [A]	14.30	15.68	14.35	15.84	14.40	15.88	14.45	15.92	14.50	15.96	14.55	16.01
Module Efficiency [%]	22.4		22.5		22.7		22.9		23.1		23.3	
Short Circuit Current (Isc) [A] at BSI	18.56		18.71		18.75		18.78		18.82		18.97	
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											

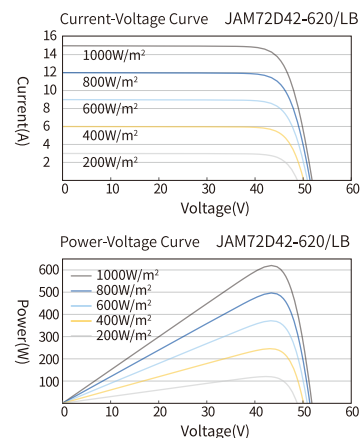
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types. Measurement tolerance at STC and BNPI: Pmax ±3%, Voc ±3% and Isc ±5%.

ELECTRICAL CHARACTERISTICS WITH 10% Bifacial Gains

TYPE	JAM72D42 -625/LB	JAM72D42 -630/LB	JAM72D42 -635/LB	JAM72D42 -640/LB	JAM72D42 -645/LB	JAM72D42 -650/LB
	Rated Max Power(Pmax) [W]	687.5	693.0	698.5	704.0	709.5
Open Circuit Voltage(Voc) [V]	52.27	52.47	52.67	52.87	53.07	53.27
Max Power Voltage(Vmp) [V]	43.71	43.90	44.10	44.29	44.49	44.67
Short Circuit Current(Isc) [A]	16.68	16.73	16.79	16.84	16.90	16.95
Max Power Current(Imp) [A]	15.73	15.79	15.84	15.90	15.95	16.01

* 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	φPmax (80 ± 10) %, φVoc (98 ± 5) %, φIsc (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.

Version No. : AUS-EN-20250109A