

# Harvest the Sunshine

# JA SOLAR

# 545W



## JAM60D42 LB n-type Double Glass Bifacial Modules

### Premium Cells

n-  
Bycium+  
16BB

MBB Half-Cell  
Technology

# 26%



Cell Conversion  
Efficiency

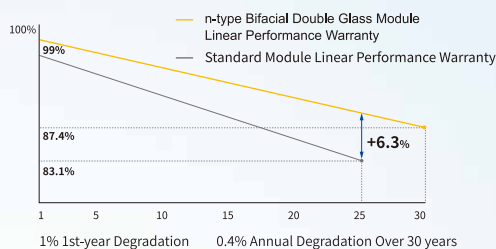
### Premium Modules

Higher power  
generation better LCOE

n-type with very  
Lower LID

Better Temperature  
Coefficient

Better low irradiance  
response



12-year product  
warranty

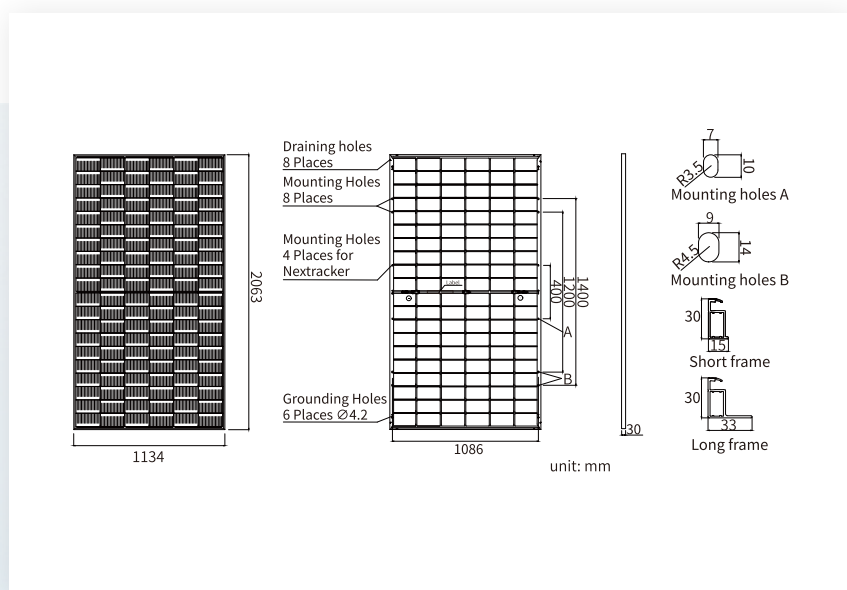
30-year linear power  
output warranty

### Comprehensive Certificates

- IEC 61215, IEC 61730
- 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



# JAM60D42 LB n-type Double Glass Bifacial Modules



## MECHANICAL PARAMETERS

Cell	Mono
Weight	28.8kg
Dimensions	2063 × 1134mm × 30mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	120(6 × 20)
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: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 792pcs/40HQ Container
Country of Manufacturer	China/Vietnam

Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC and BNPI

TYPE	JAM60D42 -520/LB		JAM60D42 -525/LB		JAM60D42 -530/LB		JAM60D42 -535/LB		JAM60D42 -540/LB		JAM60D42 -545/LB	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Rated Maximum Power(Pmax) [W]	520	570	525	575	530	585	535	590	540	595	545	602
Open Circuit Voltage (Voc) [V]	43.53	43.53	43.73	43.73	43.93	43.93	44.13	44.13	44.33	44.33	44.53	44.53
Maximum Power Voltage(Vmp) [V]	36.37	36.37	36.59	36.59	36.81	36.81	37.03	37.03	37.25	37.25	37.46	37.46
Short Circuit Current(Isc) [A]	15.16	16.61	15.21	16.66	15.26	16.84	15.31	16.88	15.36	16.92	15.41	17.01
Maximum Power Current(Imp) [A]	14.30	15.68	14.35	15.72	14.40	15.90	14.45	15.94	14.50	15.98	14.55	16.06
Module Efficiency [%]	22.2		22.4		22.7		22.9		23.1		23.3	
Short Circuit Current (Isc) [A]at BSI	18.66		18.68		18.71		18.74		18.77		18.97	
Power Tolerance	0~+3%											
Temperature Coefficient of Isc(α <sub>Isc</sub> )	+0.045%/°C											
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.250%/°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											
BNPI	front Irradiance 1000W/m <sup>2</sup> , rear Irradiance 135W/m <sup>2</sup>											
BSI	front Irradiance 1000W/m <sup>2</sup> , rear Irradiance 300W/m <sup>2</sup>											

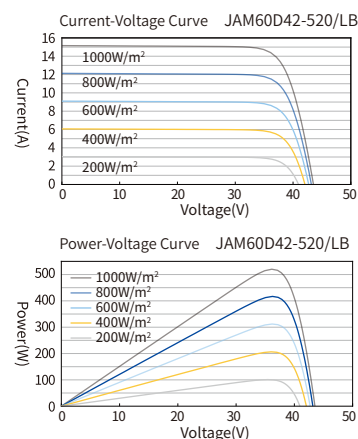
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types. Measurement tolerance at STC and BNPI: Pmax ±3%, Voc ±3% and Isc ±5%.

## ELECTRICAL CHARACTERISTICS WITH 10% Bifacial Gains

TYPE	JAM60D42 -520/LB	JAM60D42 -525/LB	JAM60D42 -530/LB	JAM60D42 -535/LB	JAM60D42 -540/LB	JAM60D42 -545/LB
	Rated Max Power(Pmax) [W]	572.0	577.5	583.0	590	595
Open Circuit Voltage(Voc) [V]	43.53	43.73	43.93	44.13	44.33	44.53
Max Power Voltage(Vmp) [V]	36.37	36.59	36.81	37.03	37.25	37.46
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 Nextacker installations, maximum static load please take compatibility approve letter between JA Solar and Nextacker 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.

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