

Harvest the Sunshine

JA SOLAR

455W



JAM54D40 LB n-type Double Glass Bifacial Modules

Premium Cells

n-
Bycium+
16BB

MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

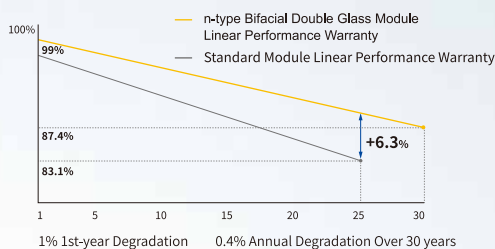
Premium Modules

Higher power
generation better LCOE

n-type with very
Lower LID

Better Temperature
Coefficient

Better low irradiance
response



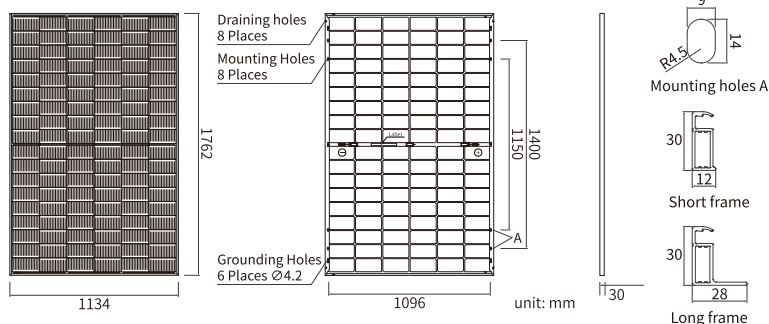
15-year product
warranty

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





MECHANICAL PARAMETERS

Cell	Mono
Weight	22kg
Dimensions	1762 × 1134mm × 30mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	108(6 × 18)
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	1.6mm/1.6mm
Packaging Configuration	36pcs/Pallet, 936pcs/40HQ Container
Country of Manufacturer	China/Vietnam

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC and BNPI

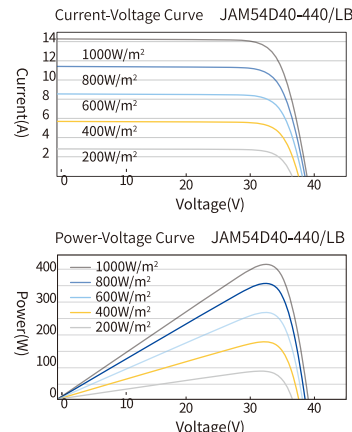
TYPE	JAM54D40	JAM54D40	JAM54D40	JAM54D40	JAM54D40	JAM54D40						
	-430/LB	-435/LB	-440/LB	-445/LB	-450/LB	-455/LB						
	STC	BNPI	STC	BNPI	STC	BNPI						
Rated Maximum Power(Pmax) [W]	430	470	435	480	440	485	445	490	450	495	455	500
Open Circuit Voltage (Voc) [V]	38.50	38.50	38.70	38.70	38.90	38.90	39.10	39.10	39.30	39.30	39.50	39.50
Maximum Power Voltage(Vmp) [V]	32.12	32.12	32.29	32.29	32.47	32.47	32.65	32.65	32.82	32.82	33.00	33.00
Short Circuit Current(Isc) [A]	14.14	15.46	14.23	15.70	14.31	15.78	14.40	15.85	14.48	15.93	14.56	16.01
Maximum Power Current(Imp) [A]	13.39	14.64	13.47	14.87	13.55	14.94	13.63	15.01	13.71	15.09	13.79	15.16
Module Efficiency [%]	21.5		21.8		22.0		22.3		22.5		22.8	
Short Circuit Current (Isc) [A] at BSI	17.27		17.50		17.57		17.64		17.70		17.92	
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	JAM54D40	JAM54D40	JAM54D40	JAM54D40	JAM54D40	JAM54D40
	-430/LB	-435/LB	-440/LB	-445/LB	-450/LB	-455/LB
Rated Max Power(Pmax) [W]	473.0	478.5	484.0	489.5	495.0	500.5
Open Circuit Voltage(Voc) [V]	38.50	38.70	38.90	39.10	39.30	39.50
Max Power Voltage(Vmp) [V]	32.21	32.29	32.47	32.65	32.82	33.00
Short Circuit Current(Isc) [A]	15.56	15.65	15.74	15.84	15.93	16.02
Max Power Current(Imp) [A]	14.73	14.82	14.91	14.91	14.99	15.17

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-20241112A