

Harvest the Sunshine

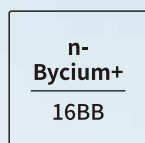
465W



JA SOLAR

JAM54D40 LB n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



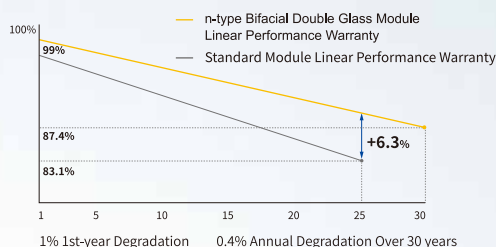
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



15-year product
warranty



30-year linear power
output warranty

Comprehensive Certificates

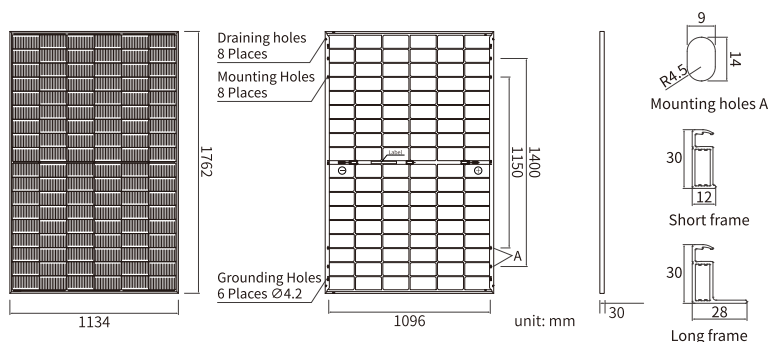
- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM54D40 LB

n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

	Mono
	22kg
	1762×1134mm×30mm
	4mm ² (IEC), 12 AWG(UL)
	108(6×18)
	IP68, 3diodes
	QC Solar QC4.10-351/QC4.10-35
	Stäubli PV-KST4-EVO2A/xy ,PV-KBT4-EVO2A/xy
	Portrait: 300mm(+)/400mm(-)
	Landscape: 1200mm(+)/1200mm(-)
	1.6mm/1.6mm
	36pcs/Pallet, 936pcs/40HQ Container
	China/Vietnam

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC and BNPI

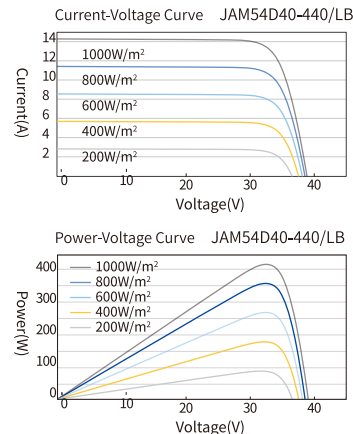
	JAM54D40 -440/LB	JAM54D40 -445/LB	JAM54D40 -450/LB	JAM54D40 -455/LB	JAM54D40 -460/LB	JAM54D40 -465/LB
TYPE	STC BNPI	STC BNPI	STC BNPI	STC BNPI	STC BNPI	STC BNPI
Rated Maximum Power(P _{max}) [W]	440 485	445 490	450 495	455 500	460 505	465 513
Open Circuit Voltage (V _{oc}) [V]	38.90 38.90	39.10 39.10	39.30 39.30	39.50 39.50	39.70 39.70	40.20 40.20
Maximum Power Voltage(V _{mp}) [V]	32.47 32.47	32.65 32.65	32.82 32.82	33.00 33.00	33.17 33.17	33.50 33.50
Short Circuit Current(I _{sc}) [A]	14.31 15.78	14.40 15.85	14.48 15.93	14.56 16.01	14.64 16.07	14.65 16.17
Maximum Power Current(I _{mp}) [A]	13.55 14.94	13.63 15.01	13.71 15.09	13.79 15.16	13.87 15.23	13.88 15.32
Module Efficiency [%]	22.0	22.3	22.5	22.8	23.0	23.3
Short Circuit Current (I _{sc}) [A] at BSI	17.57	17.64	17.70	17.92	17.98	18.03
Power Tolerance	0~+3%					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.045%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.250%/°C					
Temperature Coefficient of P _{max} (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: P_{max} ±3%, V_{oc} ±3% and I_{sc} ±5%.

ELECTRICAL CHARACTERISTICS WITH 10% Bifacial Gains

	JAM54D40 -440/LB	JAM54D40 -445/LB	JAM54D40 -450/LB	JAM54D40 -455/LB	JAM54D40 -460/LB	JAM54D40 -465/LB
TYPE						
Rated Max Power(P _{max}) [W]	484.0	489.5	495.0	500.5	506.0	511.5
Open Circuit Voltage(V _{oc}) [V]	38.90	39.10	39.30	39.50	39.70	40.20
Max Power Voltage(V _{mp}) [V]	32.47	32.65	32.82	33.00	33.17	33.50
Short Circuit Current(I _{sc}) [A]	15.74	15.84	15.93	16.02	16.10	16.12
Max Power Current(I _{mp}) [A]	14.91	14.91	14.99	15.17	15.26	15.27

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	φP _{max} (80±10) %, φV _{oc} (98±5) %, φI _{sc} (80±10) %
Safety Class	Class II
Fire Safety Class	Class C