

Harvest the Sunshine

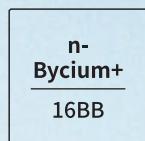
455W



JA SOLAR

JAM54D40 LB n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

Premium Modules



Higher power
generation better LCOE



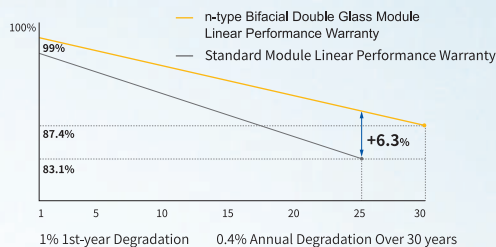
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



12-year product
warranty



30-year linear power
output warranty

Comprehensive Certificates

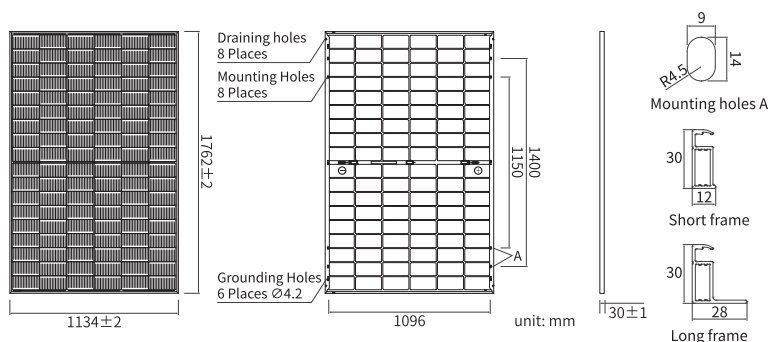
- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems



DEEP BLUE 4.0 Pro

JAM54D40 LB

n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	22kg
Dimensions	1762±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	108(6×18)
Junction Box	IP68, 3diodes
Connector	Stäubli MC4-EVO2A/MC4-EVO2 QC Solar QC 4.10-351/QC 4.10-35
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	1.6mm/1.6mm
Country of Manufacturer	China/Vietnam
Remark: customized frame color and cable length available upon request	

ELECTRICAL PARAMETERS AT STC

TYPE	JAM54D40 430/LB	JAM54D40 435/LB	JAM54D40 440/LB	JAM54D40 445/LB	JAM54D40 450/LB	JAM54D40 455/LB
	STC BNPI	STC BNPI	STC BNPI	STC BNPI	STC BNPI	STC BNPI
Rated Maximum Power(P _{max}) [W]	430 470	435 480	440 485	445 490	450 495	455 500
Open Circuit Voltage (V _{oc}) [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(V _{mp}) [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(I _{sc}) [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(I _{mp}) [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(I _{sc})[A] at BSI	17.27	17.50	17.57	17.64	17.70	17.92
Power Tolerance	0~+3%					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.046%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.260%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.290%/°C					
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G					

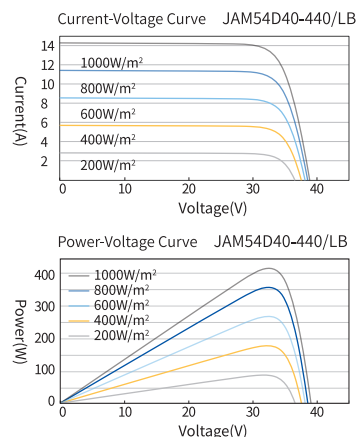
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.
They only serve for comparison among different module types.
Measurement tolerance at STC and BNPI: P_{max} ±3%, V_{oc} ±3% and I_{sc} ±5%.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM54D40 430/LB	JAM54D40 435/LB	JAM54D40 440/LB	JAM54D40 445/LB	JAM54D40 450/LB	JAM54D40 455/LB
Rated Max Power(P _{max}) [W]	464	470	475	481	486	491
Open Circuit Voltage(V _{oc}) [V]	38.50	38.70	38.90	39.10	39.30	39.50
Max Power Voltage(V _{mp}) [V]	32.11	32.29	32.47	32.65	32.82	32.99
Short Circuit Current(I _{sc}) [A]	15.27	15.36	15.46	15.55	15.64	15.73
Max Power Current(I _{mp}) [A]	14.46	14.55	14.63	14.72	14.81	14.89
Irradiation Ratio (rear/front)	10%					

* Bifaciality=P_{max, rear}/Rated P_{max, front}

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*	80%±10%
Fire Safety Class	Class C