JA SOLAR

Harvest the Sunshine

455W

JAM54D40 LB n-type Double Glass Bifacial Modules

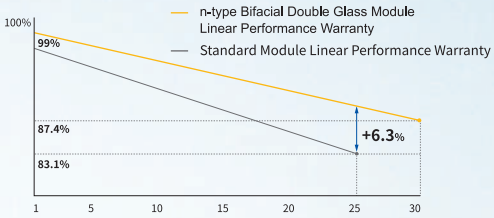
Premium Cells

n-Bycium+ 16BB

MBB Half-Cell Technology

Premium Modules

- Higher power generation better LCOE
- n-type with very Lower LID
- Better Temperature Coefficient
- Better low irradiance response



1% 1st-year Degradation 0.4% Annual Degradation Over 30 years

- 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

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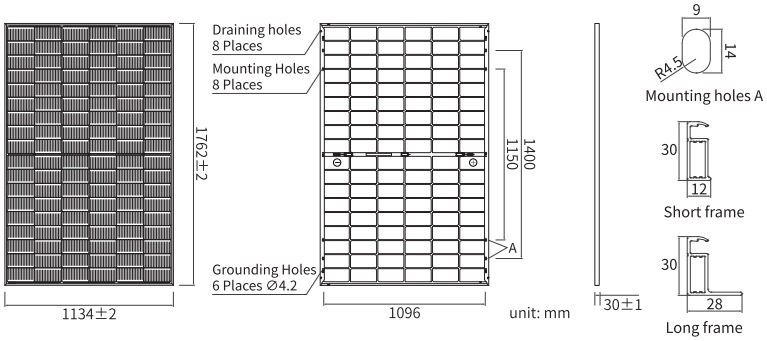


MECHANICAL PARAMETERS

Cell	Mono
Weight	22kg
Dimensions	1762±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm²(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

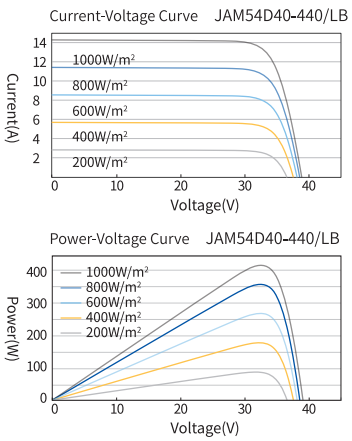
Remark: customized frame color and cable length available upon request

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(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)	+0.046%/°C											
Temperature Coefficient of Voc (β_Voc)	-0.260%/°C											
Temperature Coefficient of Pmax(γ_Pmp)	-0.290%/°C											
STC	Irradiance 1000W/m², 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: Pmax ±3%, Voc ±3% and Isc ±5%.

CHARACTERISTICS



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(Pmax) [W]	464	470	475	481	486	491
Open Circuit Voltage(Voc) [V]	38.50	38.70	38.90	39.10	39.30	39.50
Max Power Voltage(Vmp) [V]	32.11	32.29	32.47	32.65	32.82	32.99
Short Circuit Current(Isc) [A]	15.27	15.36	15.46	15.55	15.64	15.73
Max Power Current(Imp) [A]	14.46	14.55	14.63	14.72	14.81	14.89
Irradiation Ratio (rear/front)	10%					

* Bifaciality=Pmax, rear/Rated Pmax, front

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

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