Harvest the Sunshine

460W

JA SOLAR

JAM54D40 LB

Black Frame
n-type Double Glass Bifacial Modules

Premium Cells

n-Bycium+ 16BB

MBB Half-Cell Technology

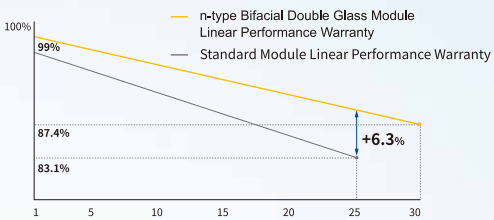
26%

Up To

Cell Conversion Efficiency

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

25 25-year product warranty

30 30-year linear power output warranty

Comprehensive Certificates

- IEC 6

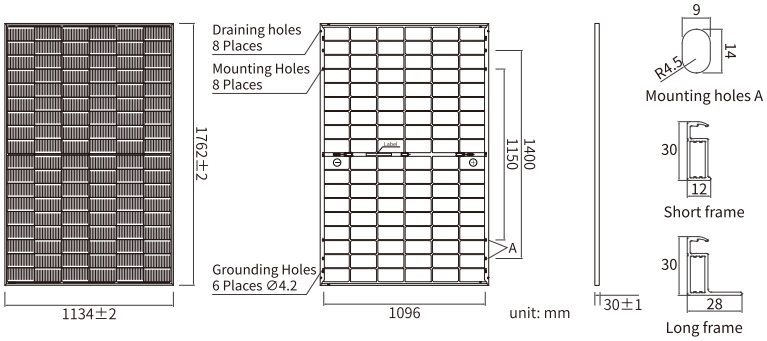
  agement systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM54D40 LB n-type Double Glass Bifacial Modules

DEEP BLUE 4.0 Pro



MECHANICAL PARAMETERS

Cell	Mono
Weight	24.8kg
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	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+) /400mm(-) Landscape: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 936pcs/40HQ Container

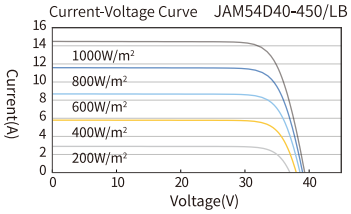
Remark: customized frame color and cable length available upon request

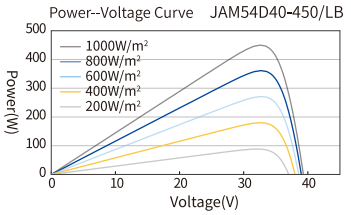
ELECTRICAL PARAMETERS AT STC

TYPE	JAM54D40 -435/LB	JAM54D40 -440/LB	JAM54D40 -445/LB	JAM54D40 -450/LB	JAM54D40 -455/LB	JAM54D40 -460/LB
Rated Maximum Power(Pmax) [W]	435	440	445	450	455	460
Open Circuit Voltage (Voc) [V]	38.70	38.90	39.10	39.30	39.50	39.70
Maximum Power Voltage(Vmp) [V]	32.29	32.47	32.65	32.82	33.00	33.17
Short Circuit Current(Isc) [A]	14.23	14.31	14.40	14.48	14.56	14.64
Maximum Power Current(Imp) [A]	13.47	13.55	13.63	13.71	13.79	13.87
Module Efficiency [%]	21.8	22.0	22.3	22.5	22.8	23.0
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/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.

CHARACTERISTICS





ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM54D40 -435/LB	JAM54D40 -440/LB	JAM54D40 -445/LB	JAM54D40 -450/LB	JAM54D40 -455/LB	JAM54D40 -460/LB
Rated Max Power(Pmax) [W]	470	475	481	486	491	497
Open Circuit Voltage(Voc) [V]	38.70	38.90	39.10	39.30	39.50	39.70
Max Power Voltage(Vmp) [V]	32.29	32.47	32.65	32.82	32.99	33.17
Short Circuit Current(Isc) [A]	15.36	15.46	15.55	15.64	15.73	15.81
Max Power Current(Imp) [A]	14.55	14.63	14.72	14.81	14.89	14.98
Irradiation Ratio (rear/front)	10%					

OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Maximum Static Load, Front	5400Pa(112 lb/ft²)
Maximum Static Load, Back	2400Pa(50 lb/ft²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

JA SOLAR

Headquarters No. 8 Building, Nuode Center, No.1 Courtyard, East Auto Museum Road, Fengtai District, Beijing
Tel: +86 10 6361 1888 Fax: +86 10 6361 1999
E-mail: sales@jasolar.com marketing@jasolar.com www.jasolar.com

Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.

Version No. : Global-EN-20241105A