JA SOLAR | DEEP BLUE 4.0 Pro

Version No. : Global-EN-20230921A

450W LB Series



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

- 25-year product warranty
- 30-year linear power output warranty

n-type Bifacial Double Glass High Efficiency Mono Module JAM54D41 LB

450

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

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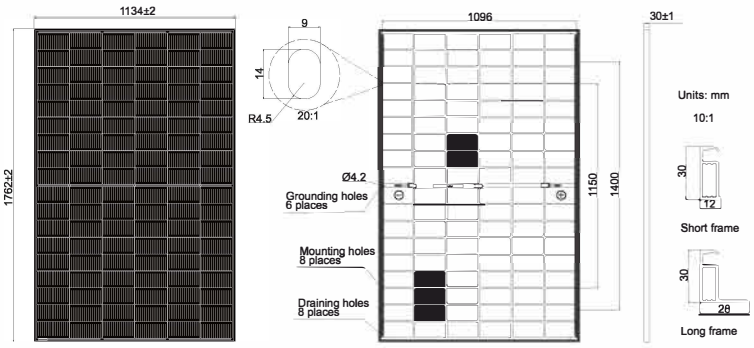
Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.



Remark: customized frame color and cable length available upon request

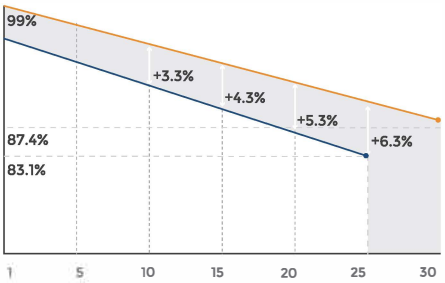
Cell	Mono-16BB
Weight	22kg
Dimensions	1762±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm² (IEC), 12 AWG(UL)
No. of cells	108(6×18)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	1.6mm/1.6mm
Packaging Configuration	36pcs/Pallet, 936pcs/40HQ Container

ELECTRICAL PARAMETERS AT STC

Rated Maximum Power(Pmax) [W]	450
Open Circuit Voltage(Voc) [V]	39.30
Maximum Power Voltage(Vmp) [V]	32.82
Short Circuit Current(Isc) [A]	14.48
Maximum Power Current(Imp) [A]	13.71
Module Efficiency [%]	22.5
Power Tolerance	0~+5W
Temperature Coefficient of Isc(α_Isc)	+0.046%/℃
Temperature Coefficient of Voc(β_Voc)	-0.260%/℃
Temperature Coefficient of Pmax(γ_Pmp)	-0.300%/℃
STC	Irradiance 1000W/m²,cell temperature 25℃, AM1.5G

Superior Warranty

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



- n-type Bifacial Double Glass Module Linear Performance Warranty
- Standard Module Linear Performance Warranty

*Subject to the terms and conditions contained in the Limited Warranty Statement.
Also this 25-year limited product warranty is available only for products installed and operating on residential rooftops in certain regions.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM54D41 -430/LB	JAM54D41 -435/LB	JAM54D41 -440/LB	JAM54D41 -445/LB	JAM54D41 -450/LB	JAM54D41 -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%		

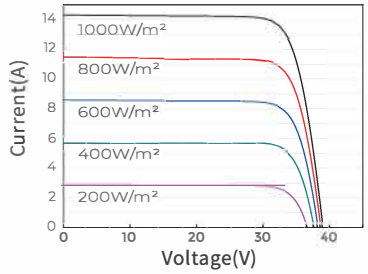
*Bifaciality=Pmax,rear/Rated Pmax,front

OPERATING CONDITIONS

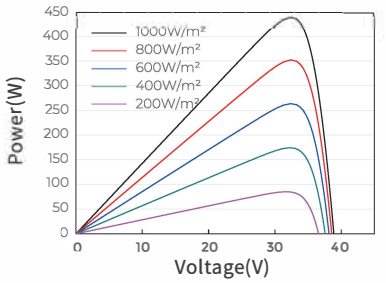
Maximum System Voltage	1500V DC
Operating Temperature	-40℃~+85℃
Maximum Series Fuse Rating	30A
Maximum Static Load,Front	5400Pa(112 lb/ft²)
Maximum Static Load,Back	2400Pa(50 lb/ft²)
NOCT	45±2℃
Bifaciality*	80%±10%
Fire Performance	UL Type 38

CHARACTERISTICS

Current-Voltage Curve **JAM54D41-440/LB**



Power-Voltage Curve **JAM54D41-440/LB**



Current-Voltage Curve **JAM54D41-440/LB**

