Introduction

Powered by the latest SMBB n-type solar cell and half-cell configuration, these modules have higher output power, lower LID, better weak illumination response, and better temperature coefficient.

Higher power generation
better LCOE

Better weak illumination response

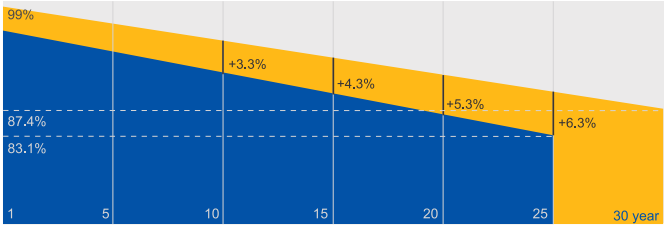
Better Temperature Coefficient

Superior Warranty

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

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

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

Shanghai JA Solar Technology Co., Ltd.

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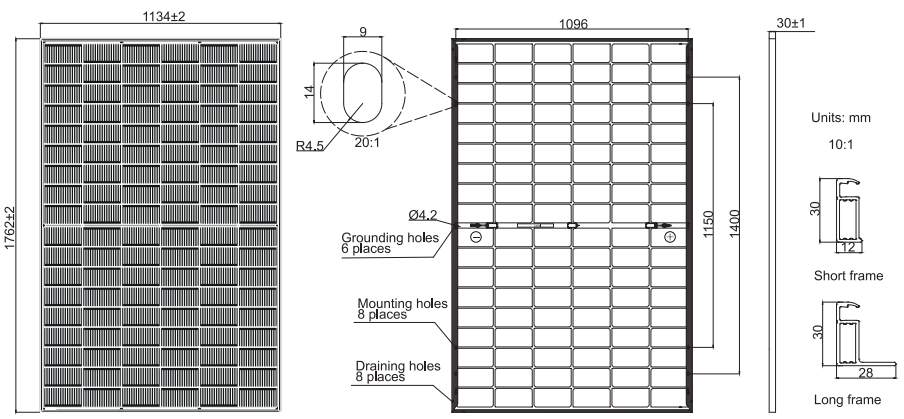
JAM54D41 430-455/LB/1500V Series

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono-16BB
Weight	26.0kg
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	Stäubli MC4-EVO2A/MC4-EVO2 QC Solar QC 4.10-351/QC 4.10-35
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); 800mm(+)/800mm(-)(Leapfrog) Landscape: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Country of Manufacturer	China/Vietnam

ELECTRICAL PARAMETERS AT STC

TYPE	JAM54D41-430/LB/1500V	JAM54D41-435/LB/1500V	JAM54D41-440/LB/1500V	JAM54D41-445/LB/1500V	JAM54D41-450/LB/1500V	JAM54D41-455/LB/1500V
Rated Maximum Power(Pmax) [W]	430	435	440	445	450	455
Open Circuit Voltage(Voc) [V]	38.50	38.70	38.90	39.10	39.30	39.50
Maximum Power Voltage(Vmp) [V]	32.12	32.29	32.47	32.65	32.82	33.00
Short Circuit Current(Isc) [A]	14.14	14.23	14.31	14.40	14.48	14.56
Maximum Power Current(Imp) [A]	13.39	13.47	13.55	13.63	13.71	13.79
Module Efficiency [%]	21.5	21.8	22.0	22.3	22.5	22.8
Power Tolerance	0~+5W					
Temperature Coefficient of Isc(α_Isc)	+0.046%/°C					
Temperature Coefficient of Voc(β_Voc)	-0.260%/°C					
Temperature Coefficient of Pmax(γ_Pmp)	-0.300%/°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: Pmax ±3 %, Voc ±3% and Isc ±4%.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM54D41-430/LB/1500V	JAM54D41-435/LB/1500V	JAM54D41-440/LB/1500V	JAM54D41-445/LB/1500V	JAM54D41-450/LB/1500V	JAM54D41-455/LB/1500V
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%					

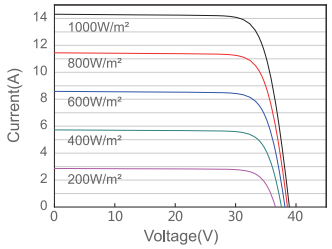
*Bifaciality=Pmax,rear/Rated Pmax,front

OPERATING CONDITIONS

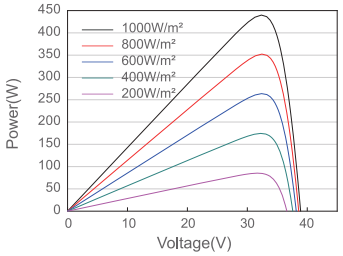
Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Maximum Static Load,Front Maximum Static Load,Back	3600Pa, 1.5 1600Pa, 1.5
NOCT	45±2°C
Bifaciality*	80%±10%
Fire Safety Class	Class C

CHARACTERISTICS

Current-Voltage Curve JAM54D41-440/LB/1500V



Power-Voltage Curve JAM54D41-440/LB/1500V



Current-Voltage Curve JAM54D41-440/LB/1500V