

Harvest the Sunshine

DEEP BLUE 4.0 Pro

Mono



Higher power generation
better LCOE



n-type with very Lower LID



Better weak illumination response

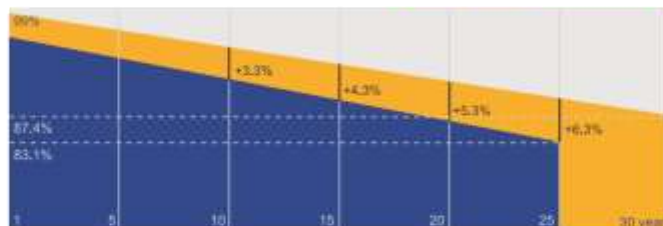


Better Temperature Coefficient

Superior Warranty

- 25-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

*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.

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



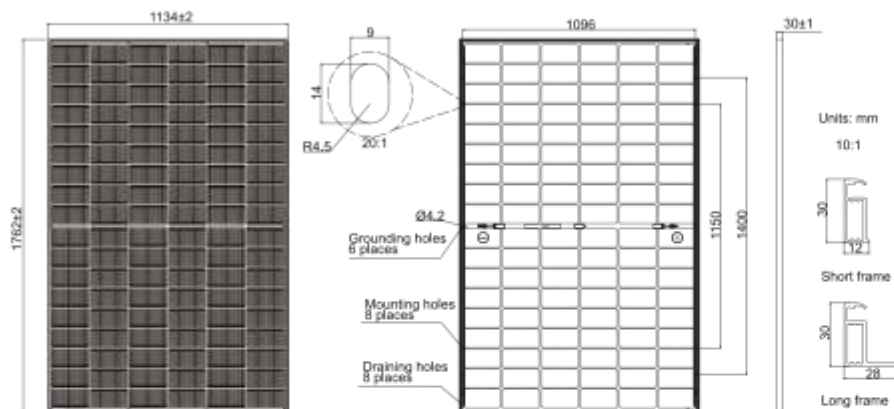
JA SOLAR

www.jasolar.com

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



MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono-16BB
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, 3 diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 200mm(+)/300mm(-) 800mm(+)/800mm(-)(Leapfrog) Landscape: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	1.6mm/1.6mm
Packaging Configuration	36pcs/Pallet, 936pcs/40HQ Container

ELECTRICAL PARAMETERS AT STC

TYPE	JAM54D41 -430/LB	JAM54D41 -435/LB	JAM54D41 -440/LB	JAM54D41 -445/LB	JAM54D41 -450/LB	JAM54D41 -455/LB
Rated Maximum Power(P _{max}) [W]	430	435	440	445	450	455
Open Circuit Voltage(V _{oc}) [V]	38.50	38.70	38.90	39.10	39.30	39.50
Maximum Power Voltage(V _{mp}) [V]	32.12	32.29	32.47	32.65	32.82	33.00
Short Circuit Current(I _{sc}) [A]	14.14	14.23	14.31	14.40	14.48	14.56
Maximum Power Current(I _{mp}) [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 I _{sc} (α _{Isc})	+0.046%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.260%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.300%/°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.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

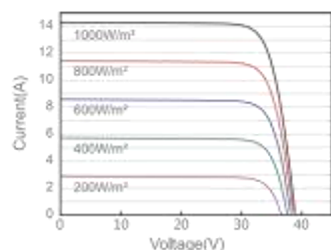
OPERATING CONDITIONS

TYPE	JAM54D41 -430/LB	JAM54D41 -435/LB	JAM54D41 -440/LB	JAM54D41 -445/LB	JAM54D41 -450/LB	JAM54D41 -455/LB	Maximum System Voltage	1500V DC
Rated Max Power(P _{max}) [W]	464	470	475	481	486	491	Operating Temperature	-40°C~+85°C
Open Circuit Voltage(V _{oc}) [V]	38.50	38.70	38.90	39.10	39.30	39.50	Maximum Series Fuse Rating	30A
Max Power Voltage(V _{mp}) [V]	32.11	32.29	32.47	32.65	32.82	32.99	Maximum Static Load, Front Maximum Static Load, Back	3600Pa(75 lb/ft ²) 2400Pa(50 lb/ft ²)
Short Circuit Current(I _{sc}) [A]	15.27	15.36	15.46	15.55	15.64	15.73	NOCT	45±2°C
Max Power Current(I _{mp}) [A]	14.46	14.55	14.63	14.72	14.81	14.89	Bifaciality*	80%±10%
Irradiation Ratio (rear/front)	10%						Fire Performance	UL Type 38

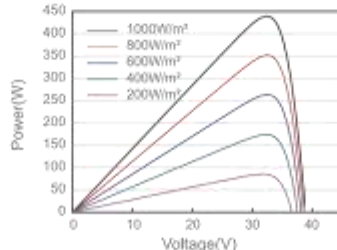
*Bifaciality=P_{max, rear}/Rated P_{max, front}

CHARACTERISTICS

Current-Voltage Curve JAM54D41-440/LB



Power-Voltage Curve JAM54D41-440/LB



Current-Voltage Curve JAM54D41-440/LB

