

Harvest the Sunshine

465W



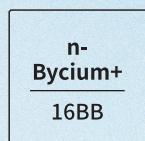
JA SOLAR

JAM54D41 LB

Black Modules

n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



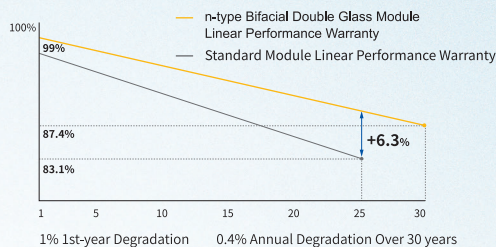
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



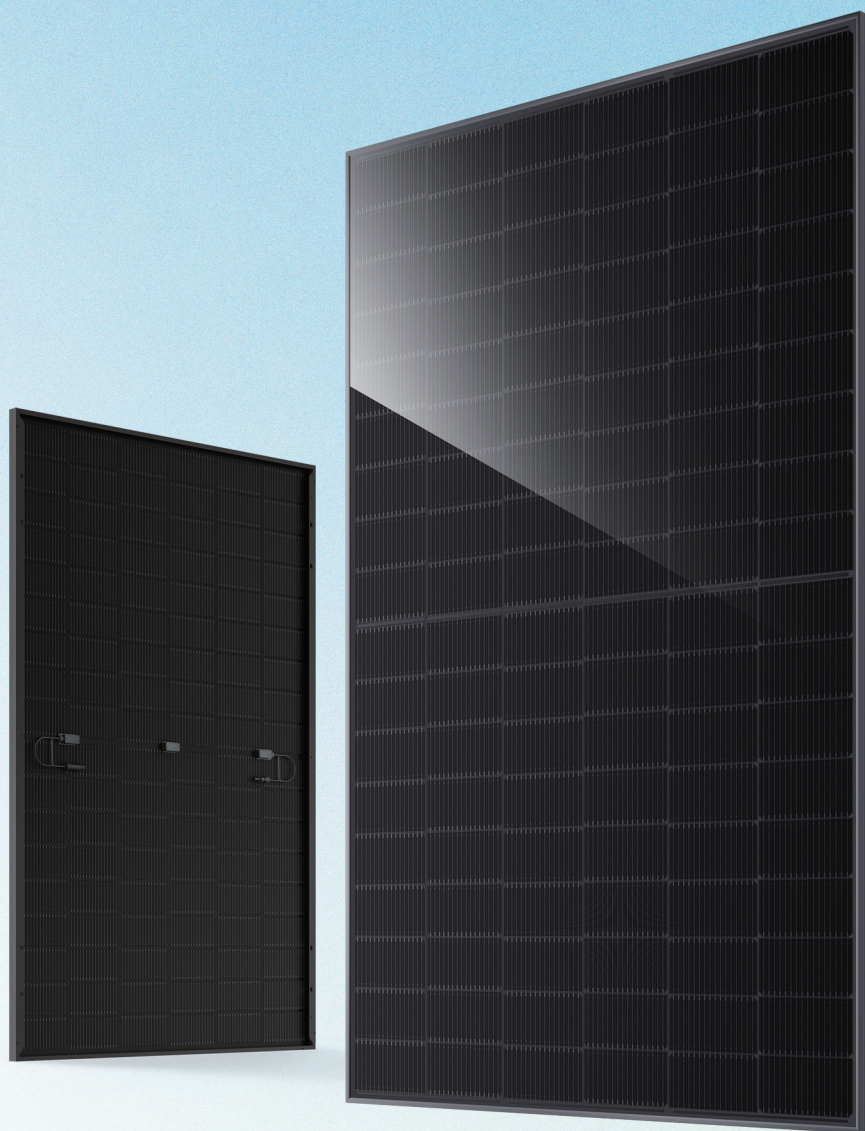
25-year product
warranty



30-year linear power
output warranty

Comprehensive Certificates

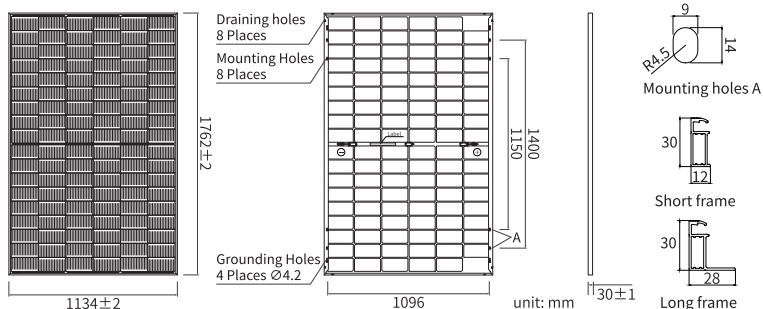
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM54D41 LB

n-type Double Glass Bifacial Modules



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	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 400mm(+)/200mm(-) Landscape: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	1.6mm/1.6mm
Packaging Configuration	36pcs/Pallet, 936pcs/40HQ Container

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

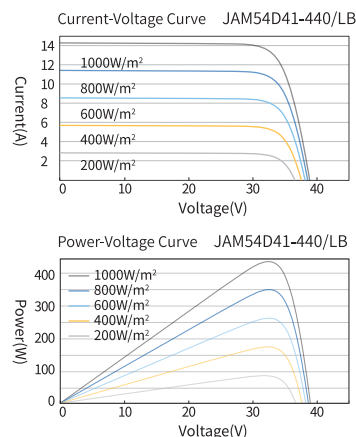
TYPE	JAM54D41 -440/LB	JAM54D41 -445/LB	JAM54D41 -450/LB	JAM54D41 -455/LB	JAM54D41 -460/LB	JAM54D41 -465/LB
Rated Maximum Power(Pmax) [W]	440	445	450	455	460	465
Open Circuit Voltage (Voc) [V]	38.90	39.10	40.30	40.50	40.60	40.70
Maximum Power Voltage(Vmp) [V]	32.47	32.65	32.99	33.33	33.68	34.02
Short Circuit Current(Isc) [A]	14.31	14.40	14.41	14.42	14.43	14.44
Maximum Power Current(Imp) [A]	13.55	13.63	13.64	13.65	13.66	13.67
Module Efficiency [%]	22.0	22.3	22.5	22.8	23.0	23.5
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.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM54D41 -440/LB	JAM54D41 -445/LB	JAM54D41 -450/LB	JAM54D41 -455/LB	JAM54D41 -460/LB	JAM54D41 -465/LB
Rated Max Power(Pmax) [W]	475	481	486	491	497	502
Open Circuit Voltage(Voc) [V]	38.90	39.10	40.30	40.50	40.60	40.70
Max Power Voltage(Vmp) [V]	32.47	32.65	32.99	33.33	33.68	34.02
Short Circuit Current(Isc) [A]	15.46	15.55	15.56	15.57	15.58	15.60
Max Power Current(Imp) [A]	14.63	14.72	14.73	14.74	14.75	14.76
Irradiation Ratio (rear/front)	10%					

CHARACTERISTICS



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%±10%
Safety Class	Class II
Fire Performance	UL Type 38/Class C