Harvest the Sunshine

455W

JA SOLAR

JAM54D41 LB

Black Modules
n-type Double Glass Bifacial Modules

Premium Cells

n-Bycium+ 16BB

MBB Half-Cell Technology

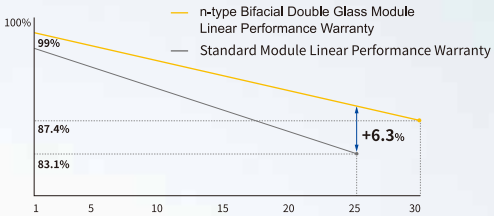
26%

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

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

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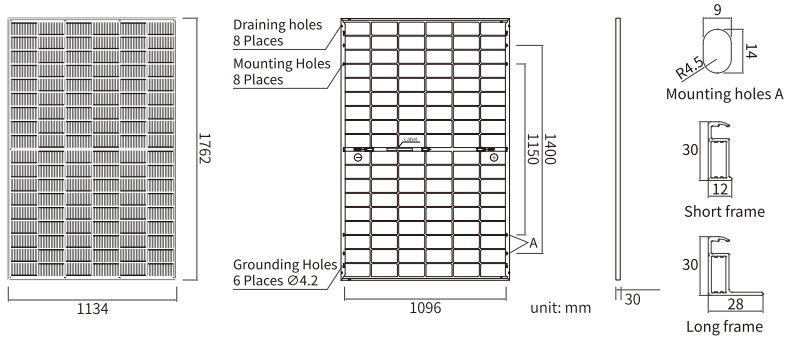


MECHANICAL PARAMETERS

Cell	Mono
Weight	22kg
Dimensions	1762×1134mm×30mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	108(6×18)
Junction Box	IP68, 3diodes
Connector	QC Solar QC4.10-351/QC4.10-35 Stäubli PV-KST4-EVO2A/xy ,PV-KBT4-EVO2A/xy
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
Country of Manufacturer	China/Vietnam

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC and BNPI

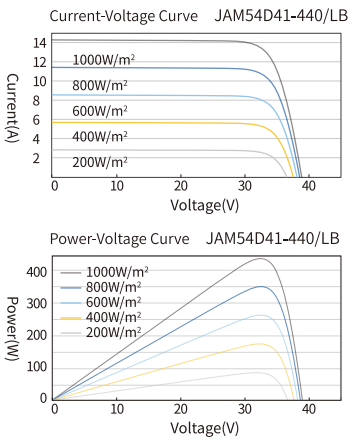
TYPE	JAM54D41 -430/LB STC BNPI	JAM54D41 -435/LB STC BNPI	JAM54D41 -440/LB STC BNPI	JAM54D41 -445/LB STC BNPI	JAM54D41 -450/LB STC BNPI	JAM54D41 -455/LB STC BNPI
Rated Maximum Power(Pmax) [W]	430 470	435 480	440 485	445 490	450 497	455 500
Open Circuit Voltage (Voc) [V]	38.50 38.50	38.70 38.70	38.90 38.90	39.10 39.10	40.30 40.30	40.50 40.50
Maximum Power Voltage(Vmp) [V]	32.12 32.12	32.29 32.29	32.47 32.47	32.65 32.65	32.99 32.99	33.33 33.33
Short Circuit Current(Isc) [A]	14.14 15.46	14.23 15.70	14.31 15.78	14.40 15.85	14.41 15.91	14.42 15.92
Maximum Power Current(Imp) [A]	13.39 14.64	13.47 14.87	13.55 14.94	13.63 15.01	13.64 15.06	13.65 15.07
Module Efficiency [%]	21.5	21.8	22.0	22.3	22.5	22.8
Short Circuit Current (Isc) [A]at BSI	17.27	17.50	17.57	17.64	17.74	17.75
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					
BNPI	front Irradiance 1000W/m², rear Irradiance 135W/m²					
BSI	front Irradiance 1000W/m², rear Irradiance 300W/m²					

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 and BNPI: Pmax ±3%, Voc ±3% and Isc ±5%.

ELECTRICAL CHARACTERISTICS WITH 10% Bifacial Gains

TYPE	JAM54D41 -430/LB	JAM54D41 -435/LB	JAM54D41 -440/LB	JAM54D41 -445/LB	JAM54D41 -450/LB	JAM54D41 -455/LB
Rated Max Power(Pmax) [W]	473.0	478.5	484.0	489.5	495.0	500.5
Open Circuit Voltage(Voc) [V]	38.50	38.70	38.90	39.10	40.30	40.50
Max Power Voltage(Vmp) [V]	32.21	32.29	32.47	32.65	32.99	33.33
Short Circuit Current(Isc) [A]	15.56	15.65	15.74	15.84	15.85	15.86
Max Power Current(Imp) [A]	14.73	14.82	14.91	14.91	15.00	15.02

CHARACTERISTICS



OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Maximum Static Load, Front	3600Pa, 1.5
Maximum Static Load, Back	1600Pa, 1.5
NOCT	45±2°C
Bifaciality	φPmax (80±10) %, φVoc (98±5) %, φIsc (80±10) %
Safety Class	Class II
Fire Safety Class	Class C

JA SOLAR

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