JA SOLAR

Harvest the Sunshine

510W

JAM60D41 LB

Black Module
n-type Double Glass Bifacial Modules

Premium Cells

n-Bycium+ 16BB

MBB Half-Cell Technology

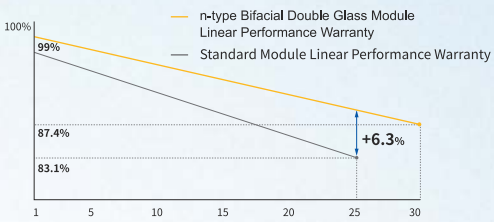
26%

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

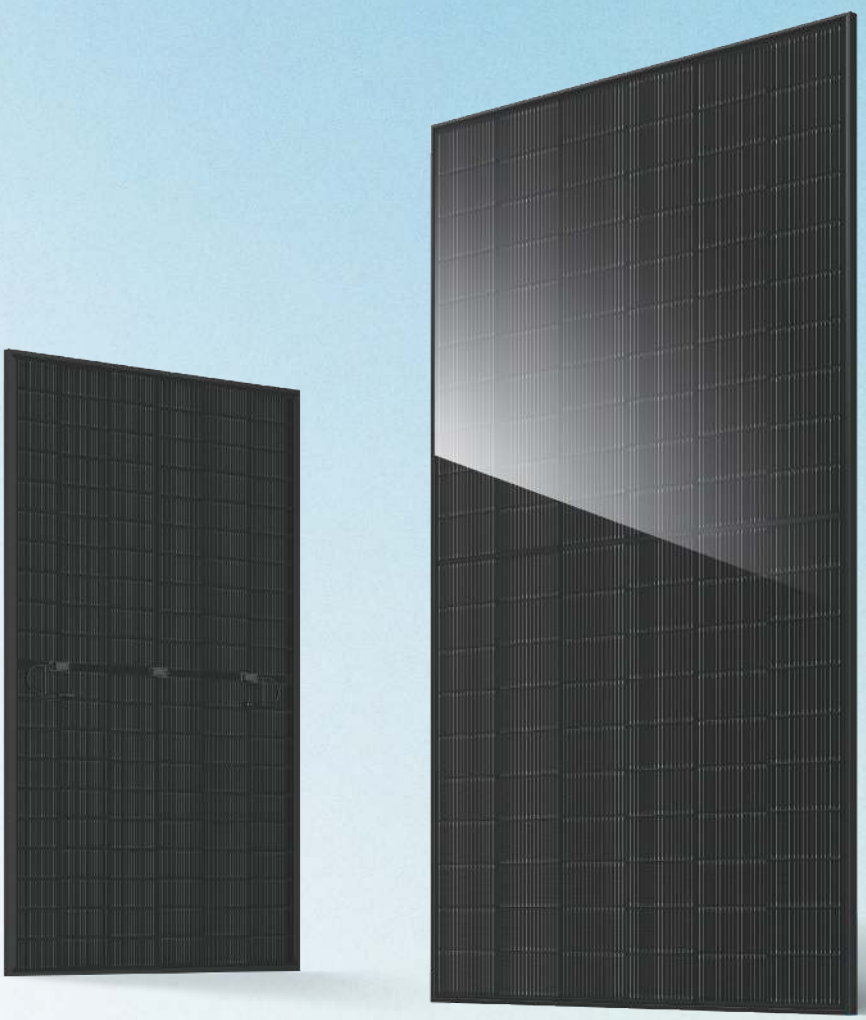
0.4% Annual Degradation Over 30 years

12-year product warranty

30-year linear power output warranty

Comprehensive Certificates

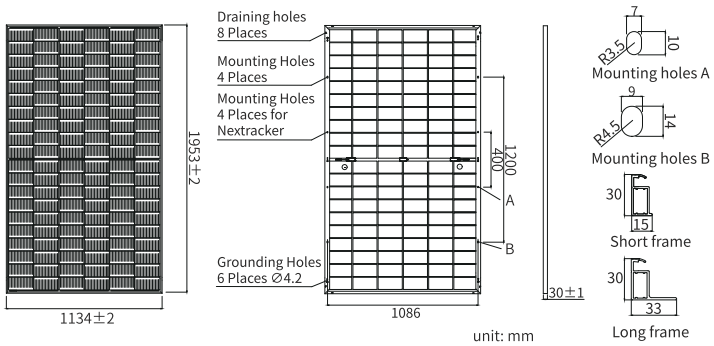
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM60D41 LB n-type Double Glass Bifacial Modules

DEEP BLUE 4.0 Pro



MECHANICAL PARAMETERS

Cell	Mono
Weight	27.3kg
Dimensions	1953±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	120(6×20)
Junction Box	IP68, 3diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+) /400mm(-) Landscape: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 864pcs/40HQ Container

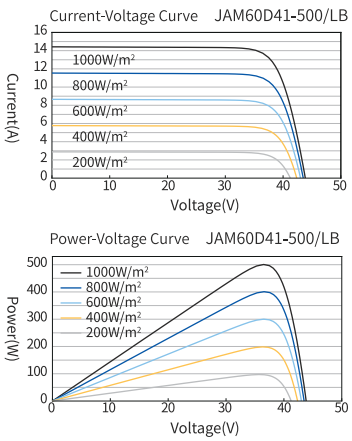
Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM60D41 485/LB	JAM60D41 490/LB	JAM60D41 495/LB	JAM60D41 500/LB	JAM60D41 505/LB	JAM60D41 510/LB
Rated Maximum Power(Pmax) [W]	485	490	495	500	505	510
Open Circuit Voltage (Voc) [V]	43.25	43.45	43.65	43.85	44.05	44.25
Maximum Power Voltage(Vmp) [V]	36.28	36.49	36.70	36.91	37.11	37.31
Short Circuit Current(Isc) [A]	14.24	14.30	14.36	14.42	14.48	14.54
Maximum Power Current(Imp) [A]	13.37	13.43	13.49	13.55	13.61	13.67
Module Efficiency [%]	21.9	22.1	22.4	22.6	22.8	23.0
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.

CHARACTERISTICS



ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM60D41 485/LB	JAM60D41 490/LB	JAM60D41 495/LB	JAM60D41 500/LB	JAM60D41 505/LB	JAM60D41 510/LB
Rated Max Power(Pmax) [W]	524	529	535	540	545	551
Open Circuit Voltage(Voc) [V]	43.25	43.45	43.65	43.85	44.05	44.25
Max Power Voltage(Vmp) [V]	36.28	36.49	36.70	36.91	37.11	37.31
Short Circuit Current(Isc) [A]	15.38	15.44	15.51	15.57	15.64	15.70
Max Power Current(Imp) [A]	14.44	14.50	14.57	14.63	14.70	14.76
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	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 29/Class C

JA SOLAR

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Specifications subject to technical changes and tests.
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