

Harvest the Sunshine

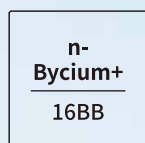
JA SOLAR

515 W



JAM60D40 LB n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



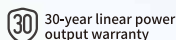
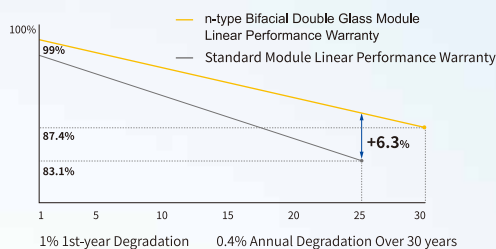
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



*Remark: The performance warranty applies at STC condition.

Comprehensive Certificates

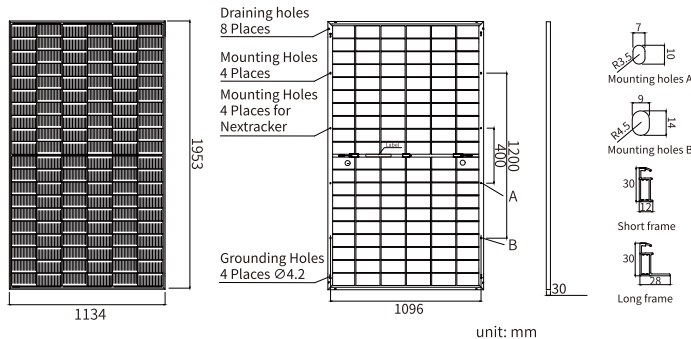
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM60D40 LB

n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	27.3kg
Dimensions	1953mm × 1134mm × 30mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	120(6 × 20)
Junction Box	IP68, 3diodes
Connector	Stäubli PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy QC Solar QC4.10-351/ QC4.10-35
Cable Length (Including Connector)	Portrait: 400mm(+)/200mm(-) Landscape: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 864pcs/40HQ Container
Country of Manufacturer	China/Vietnam

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM60D40 -490/LB STC BNPI	JAM60D40 -495/LB STC BNPI	JAM60D40 -500/LB STC BNPI	JAM60D40 -505/LB STC BNPI	JAM60D40 -510/LB STC BNPI	JAM60D40 -515/LB STC BNPI
Rated Maximum Power(P _{max}) [W]	490 540	495 545	500 550	505 555	510 560	515 569
Open Circuit Voltage (V _{oc}) [V]	43.45 43.45	43.65 43.65	43.85 43.85	44.05 44.05	44.25 44.25	45.00 45.00
Maximum Power Voltage(V _{mp}) [V]	36.49 36.49	36.70 36.70	36.91 36.91	37.11 37.11	37.31 37.31	37.62 37.62
Short Circuit Current(I _{sc}) [A]	14.30 15.76	14.36 15.81	14.42 15.86	14.48 15.91	14.54 15.96	14.56 16.07
Maximum Power Current(I _{mp}) [A]	13.43 14.80	13.49 14.86	13.55 14.91	13.61 14.96	13.67 15.01	13.69 15.11
Module Efficiency [%]	22.1	22.4	22.6	22.8	23.0	23.3
Short Circuit Current (I _{sc}) [A] at BSI	17.51	17.55	17.73	17.78	17.82	17.92
Power Tolerance	0~+3%					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.045%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.250%/°C					
Temperature Coefficient of P _{max} (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: P_{max}±3%, V_{oc}±3%, I_{sc}±5% and the tolerance of I_{sc} at BSI: ±5%.

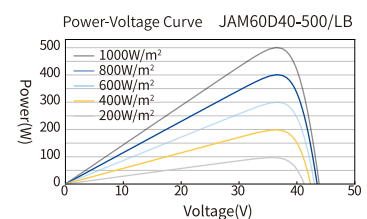
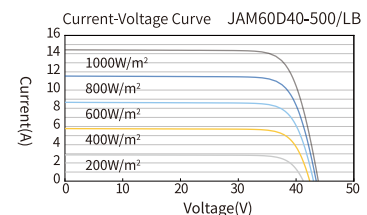
ELECTRICAL CHARACTERISTICS WITH 10% Bifacial Gains and Low Irradiance Of 200W/m²

TYPE	JAM60D40 -490/LB 10% 200W/m ²	JAM60D40 -495/LB 10% 200W/m ²	JAM60D40 -500/LB 10% 200W/m ²	JAM60D40 -505/LB 10% 200W/m ²	JAM60D40 -510/LB 10% 200W/m ²	JAM60D40 -515/LB 10% 200W/m ²
Rated Max Power(P _{max}) [W]	539 95.39	545 96.24	550 97.33	556 98.19	561 99.34	567 99.98
Open Circuit Voltage(V _{oc}) [V]	43.45 40.89	43.65 41.08	43.85 41.27	44.05 41.46	44.25 41.65	45.00 42.32
Max Power Voltage(V _{mp}) [V]	36.49 35.38	36.70 35.55	36.91 35.73	37.11 35.89	37.31 36.05	37.62 36.18
Short Circuit Current(I _{sc}) [A]	15.73 2.86	15.80 2.87	15.86 2.88	15.93 2.90	15.99 2.91	16.02 2.91
Max Power Current(I _{mp}) [A]	14.77 2.70	14.84 2.71	14.91 2.72	14.97 2.74	15.04 2.76	15.06 2.76
Irradiation Ratio (rear/front)	10%					

Low Irradiance (200±2) W/m², module at (25±2) °C

** For Nextacker installations, maximum static load please take compatibility approve letter between JA Solar and Nextacker for reference.

CHARACTERISTICS



OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature*	-40°C~+70°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	φP _{max} (80±5)%, φV _{oc} (98±5)%, φI _{sc} (80±5)%
Safety Class	Class II
Fire Performance	Class C

*PV module 98th percentile operating temperature : 70°C



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

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