

Harvest the Sunshine

650W

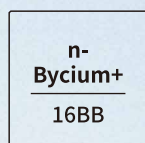


JA SOLAR

JAM72D42 LB

n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



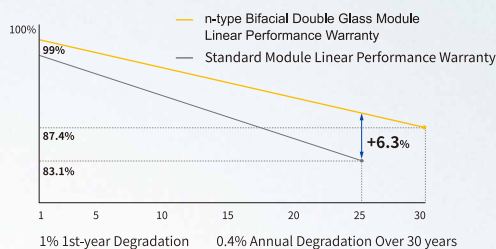
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



12-year product
warranty

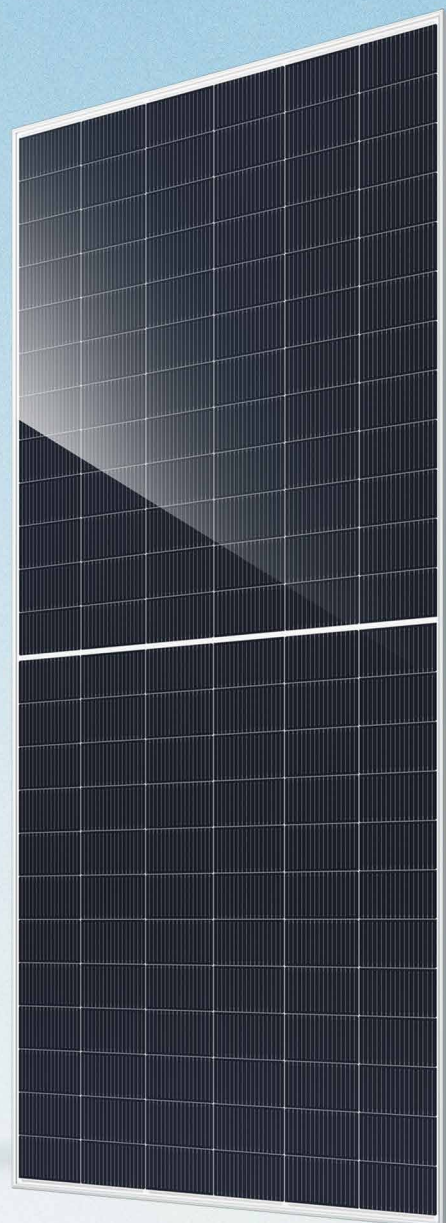


30-year linear power
output warranty

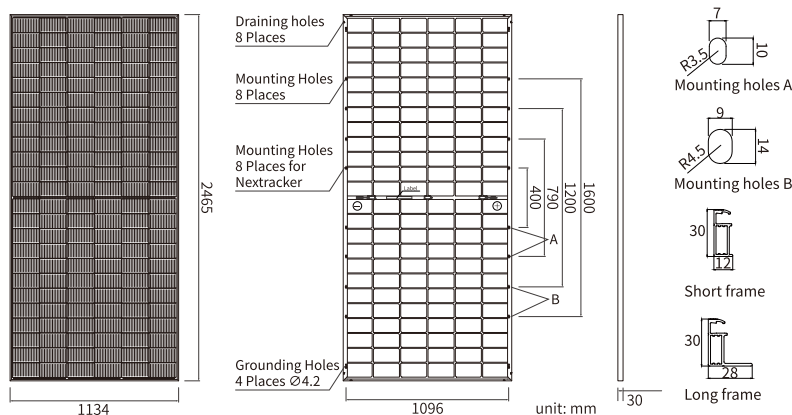
*Remark: The performance warranty applies at STC condition.

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



MECHANICAL PARAMETERS

Cell	Mono
Weight	34.6kg
Dimensions	2465mm × 1134mm × 30mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6 × 24)
Junction Box	IP68, 3 diodes
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: 1400mm(+)/1400mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 576pcs/40HQ Container
Country of Manufacturer	China/Vietnam
Remark: customized frame color and cable length available upon request	

ELECTRICAL PARAMETERS AT STC and BNPI

TYPE	JAM72D42 -630/LB STC BNPI	JAM72D42 -635/LB STC BNPI	JAM72D42 -640/LB STC BNPI	JAM72D42 -645/LB STC BNPI	JAM72D42 -650/LB STC BNPI
Rated Maximum Power(P _{max}) [W]	630 695	635 700	640 705	645 710	650 715
Open Circuit Voltage (V _{oc}) [V]	52.47 52.47	52.67 52.67	52.87 52.87	53.07 53.07	53.27 53.27
Maximum Power Voltage(V _{mp}) [V]	43.90 43.90	44.10 44.10	44.29 44.29	44.49 44.49	44.67 44.67
Short Circuit Current(I _{sc}) [A]	15.21 16.78	15.26 16.82	15.31 16.87	15.36 16.91	15.41 16.95
Maximum Power Current(I _{mp}) [A]	14.35 15.84	14.40 15.88	14.45 15.92	14.50 15.96	14.55 16.01
Module Efficiency [%]	22.5	22.7	22.9	23.1	23.3
Short Circuit Current (I _{sc}) [A] at BSI	18.71	18.75	18.78	18.82	18.97
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/m ² , cell temperature 25°C, AM1.5G				
BNPI	Front Irradiance 1000W/m ² , rear Irradiance 135W/m ²				
BSI	Front Irradiance 1000W/m ² , rear Irradiance 300W/m ²				

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.

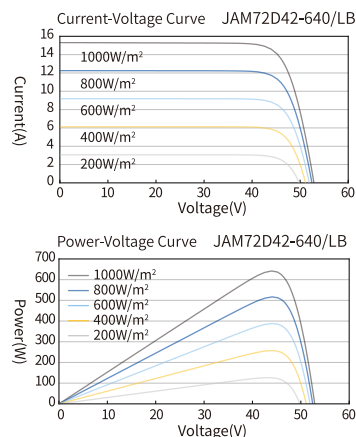
Measurement tolerance at STC and BNPI: P_{max} ±3%, V_{oc} ±3%, I_{sc} ±5% and the tolerance of I_{sc} at BSI: ±5%.

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

TYPE	JAM72D42 -630/LB 10% 200W/m ²	JAM72D42 -635/LB 10% 200W/m ²	JAM72D42 -640/LB 10% 200W/m ²	JAM72D42 -645/LB 10% 200W/m ²	JAM72D42 -650/LB 10% 200W/m ²
Rated Max Power(P _{max}) [W]	693 124	699 125	704 126	710 127	715 128
Open Circuit Voltage(V _{oc}) [V]	52.47 49.42	52.67 49.60	52.87 49.79	53.07 49.97	53.27 50.16
Max Power Voltage(V _{mp}) [V]	43.90 42.78	44.10 42.95	44.29 43.12	44.49 43.25	44.67 43.42
Short Circuit Current(I _{sc}) [A]	16.73 3.04	16.79 3.05	16.84 3.06	16.90 3.07	16.95 3.08
Max Power Current(I _{mp}) [A]	15.79 2.89	15.84 2.91	15.90 2.92	15.95 2.93	16.01 2.94
Irradiation Ratio (rear/front)	10%				
Low Irradiance	(200 ± 2) W/m ² , module at (25 ± 2) °C				

* For NextTracker installations, maximum static load please take compatibility approve letter between JA Solar and NextTracker 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