

# JA SOLAR

Africa's No.1 Energy solutions

## 2026 PRODUCT CATALOGUE



JA Solar is a global leader in high-performance **Photovoltaic** products. Renowned for Innovation and Reliability worldwide, transforming sunlight into clean power. We also deliver advanced **Battery Energy Storage Systems (BESS)** through our dedicated JA Energy Storage division seamlessly integrating with solar PV for utility-scale, C&I, and residential applications.





A global leader in photovoltaic (PV) technology. With over two decades of innovation, JA Solar has built a vertically integrated value chain-from silicon wafers and solar cells to modules, BESS, and PV power station development.

Listed on the Shenzhen Stock Exchange (002459), we serve customers in 178 countries, with over 317GW Cumulative Shipments (As of Q3, 2025)



Integration level exceeds 90%



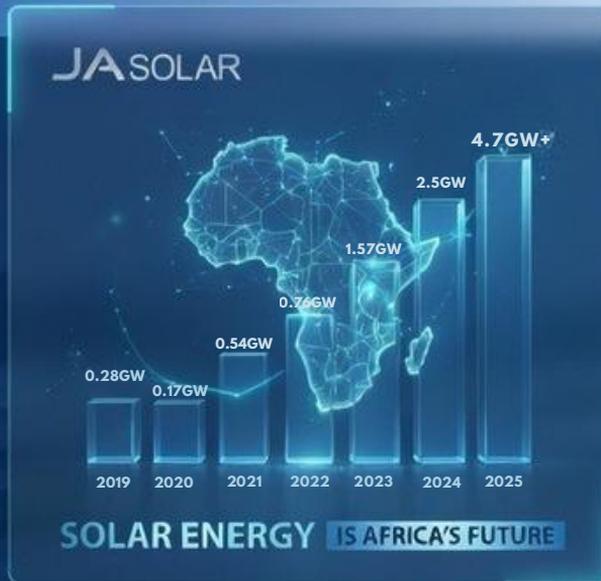
Our meticulously verified supply chain ensures the highest standards of quality, sustainability and traceability for our solar modules and BESS, empowering you with reliable and eco-friendly energy solutions.

With over 317GW+ supplied globally and representation on every continent, we're your trusted partner for solar energy solutions worldwide



Beyond Inspection

## Continental Footprint



## Africa Projects Highlights

Trusted by Industry Leaders

Zambia / 100MW / Chisamba solar PV project.  
 Morocco / 220 MW / Jesa project / JESA OCP  
 Namibia / **6.5 MW** / Ohorongo Cement Factory / Gildemeister Energy  
 Madagascar / **20 MW** / Ambatolampy project / Axian - Green Yellow  
 Egypt / **120 MW** / Beban Project / Elsewedy - Sterling And wilson  
 Zimbabwe / **40.5 MW** / Platinum Mine / Elsewedy - Zimplats  
 Nigeria / **5 MW** / Decentralised solar / Solar23 - Solar Mate  
 Egypt / **50 MW** / Zafarana Project / Belectric - NREA - CCC  
 Burkina Faso / **6 MW** / Dori Project / Alpha Tnd - Sonabel  
 Zambia / **50 MW** / Itimpi Solar Plant / PowerChina Zesco  
 DRC / **10.8 MW** / Tshipuka / Hassan Allam - PGESCO  
 Tanzania / **3MW** / Serengeti/ Greenlink Regen Limited  
 Mali / **24 MW** / Barrick's Loulo Project / JA Delmas  
 Ghana / **2 MW** / Jubilee presidential Palace / 3SIL  
 Mauritania / **16.9 MW** / Boutilimit - Aleg / Masdar  
 Kenya / **5 MW** / Startisight project / Premier Solar

Nigeria / **3 MW** / NBC / Daystar  
 Chad / **5 MW** / Abéché / Innovent  
 South Africa / **30 MW** // Sola Group  
 Morocco / **2 MW** / Knitra / Jet Energy  
 Kenya / **5 MW** / solar project / OfGen  
 Zambia / **35 MW** / Ngonye Project / Enel  
 Madagascar / **5 MW** / Evocell / Enerdeal  
 Egypt / **62.8 MW** / Benban Alfa / Al Fanar  
 Mauritius / **11.48 MW** / PDR / Corexsolar  
 Morocco / **4.2 MW** / Nexan - Safran / Qair  
 Kenya / **2.5 MW** / Finlays tea / Spenomatic  
 Eritrea / **6 MW** / E-TECH Projects / Adi Halo  
 Gambia / **23 MW** / Jambur / TBEA - GERMP

Ghana / 10 MW / Floating Solar / Bui  
 Mauritius / 10.98 MW / MSDG / Ecoasis  
 South Africa / 20 MW / Boston Solar / Boston  
 Nigeria / 2 MW / Baze University / Rensource  
 Algeria / 10 MW / Sonelgaz / S2000 - ENGTP  
 Zambia / 100MW / Chisamba solar PV project.

**SCAN TO FOLLOW US**



**JA Solar Africa**  
 872 followers  
 1w · 🌐

JA Solar is Africa's number one leading solar module supplier, powering the continent's renewable energy revolution with over 4.7 GW+ delivered in 2025! 🌞

From massive utility-scale projects to local installations across South Africa, Kenya, Zambia, and beyond, JA Solar continues to deliver high-efficiency, reliable PV solutions that drive sustainable growth and energy access.

Ready to go solar? Visit [www.jasolarafrica.com](http://www.jasolarafrica.com) to learn more about our cutting-edge modules, latest projects, and how we're leading Africa's clean energy future. 🌱

#SolarPower #RenewableEnergy #JASolar #AfricaSolar #CleanEnergyAfrica



**JA Solar Africa**  
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🔥 Happening NOW!

JA Solar is live at Power & Elec Nigeria 2024! ...more

Harvest the Sunshine

👍 You and 62 others · 5 comments · 3 reposts



**JA Solar Africa**  
 872 followers  
 1w · 🌐

🔥 Powering Africa's installers with next-level knowledge!

JA Solar recently hosted an intensive training session led by experts Estimote ...more

👍 You and 60 others · 1 comment · 4 reposts

**JA SOLAR**  
 Unleashing Solar Power Anywhere, in Any Environment

Unanimous recognition from global customers with products distributed across 178 countries and regions

- Roof
- Heat Resistant
- Typhoon-Proof
- Plots/au
- Offshore
- Extreme Cold
- Light Weight
- Anti-Glare
- Desert
- Anti-Flare
- Heat&Humid

👍 204 · 🗨️ · 🔄 · 📌 1

jasolarafrica On March 5th, JA Solar launched its All-Scenario Solutions. This new solar power technology works



04:49 🌙

@JASolarAfrica  
 JA Solar Episode 1: How to Properly Handle & Insta ...

👍 11 · 🗨️ · 📌 · 🔄 · 🎵

**jasolarafrica**

JA Solar Power Talk

**FOOTBALL & RENEWABLE ENERGY A WINNING TEAM**

📺 Platform: Zoom · 📅 Date: Dec 18, 2025 · 🕒 Time: 11:00 AM CET

👍 6 · 🗨️ · 🔄 · 📌 1

jasolarafrica Football and Renewable Energy: A Winning Team 🌞  
 Join us on 18 December at 11:00 (CET) for a new JA... more  
 December 10, 2025





**JAM66D46 LB**  
705W - 730W

2384 x 1303 x 33

38.2kg

132(6x22)

594 pcs



**JAM66D50 GB**  
645W - 670W

2382 x 1134 x 30

33.1kg

198(6x33)

720 pcs



**JAM66D45 LB**  
605W - 655W

2382 x 1134 x 30

33.1kg

132(6x22)

720 pcs



**JAM66D45 LB**  
Lite 605W - 630W

2382 x 1134 x 30

34.5kg

132(6x22)

720 pcs



**JAM54D50 GR**

1961 x 1134 x 30

27.5kg

108(6x18)

936 pcs



DESERTBLUE

## JA SOLAR

**DESERT BLUE**  
Dust Off. Power On.



**JAM66D45 LB**  
625W - 650W

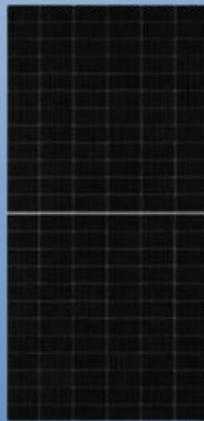
2382 x 1134 x 30

33.1kg

132(6x22)

720 pcs

Aluminium Frame



**JAM66D45 LB**  
625W - 650W

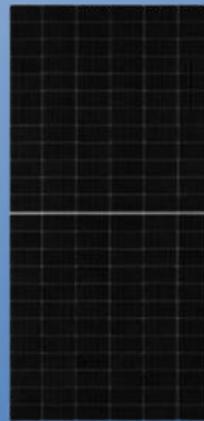
2382 x 1134 x 30

34.5kg

132(6x22)

720 pcs

Aluminium Frame



**JAM66D46 LB**  
695W - 720W

2334 x 1303 x 30

39.8kg

132(6x22)

648 pcs

Steel Frame



**JAM66D45 LB**  
605W - 630W

2382 x 1134 x 30

34.5kg

132(6x22)

720 pcs

Steel Frame

Offshore PV



**Double-Layer Coated Glass**

Moisture Resistance \ Salt mist Resistance

**Moisture-resistance encapsulant**

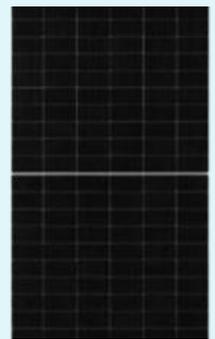
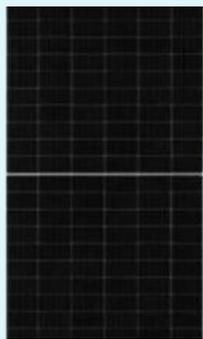
High Water Resistance \ UV Resistance High Weather Resistance

**MC4 and waterproofing plug**

Strong Waterproofing / Anti Aging

**High-Thickness Oxide Film Frame**

High Weather Resistance \ High Strength Corrosion Resistance



**JAM66D45 LB**  
605W - 630W

**JAM66D46 LB**  
695W - 720W

**JAM66D45 LB**  
605W - 630W

**JAM66D46 LB**  
695W - 720W

2382 x 1134 x 30

2384 x 1303 x 33

2382 x 1134 x 30

2384 x 1303 x 35

33.1kg

38.2kg

33.8kg

39.2kg

132(6x22)

132(6x22)

132(6x22)

132(6x22)

720 pcs

594 pcs

720 pcs

558 pcs

SkyBlue

SkyBlue

OceanBlue

OceanBlue



**Highly Weather-Resistant Double Layer Coated Glass**

High light transmission \ Moisture Resistance \ Salt mist Resistance

**Polyurethane Frame**

High Weather Resistance \ High Strength Corrosion Resistance \ High Insulation

**Junction Box, Connector Protection**

Strong Waterproofing / Anti Aging

**High water-resistance sealant**

High Weather Resistance \ High Strength \ UV Resistance

## BESS (Battery Energy Storage Systems)



### Centralized PCS & Step-Up Integrated Unit

JASOLAR Energy Storage



#### Ultimate Safety

- Supports LVRT and IGBT
- Four-quadrant active and reactive power control
- GFD-forming capability with black start function

#### Cost Efficiency

- Integrated inverter and booster, highly compact
- Improved space efficiency, simplified installation, modular, and configurable power architecture
- Supports automated peak sharing operation

#### Reliability

- 1500V wide-range DC voltage
- Multi-branch DC design prevents battery blocking currents
- Features LVRT and HVRT capabilities, with four-quadrant active and reactive power control
- Fast power response (< 10 ms)

Model	SESD+ 200-MV-EA
<b>DC Side</b>	
Rated Power	2000 kW
Voltage Range	1000 V to 1500 V
Rated AC Power	2450 kW @ 45 °C
Transformer Vector Group	Dy11
<b>AC Side</b>	
MVA AC Voltage	10 kVA 345 kV
AC Frequency	50 Hz / 60 Hz
THD	< 3 %
Dimensions (W x D x H)	4050 x 2950 x 2430 mm
Weight	4.75 t
Protection Level	IP65
<b>System Parameters</b>	
Anti-corrosion Level	C3
Operative Temperature Range	-45 °C to 60 °C (Measuring at 45 °C)
Storage Temperature	-60 °C to 50 °C
Cooling Method	Air Cooling
Altitude	1000 m



### JAGalaxy Air Cooling Utility-Scale Energy Storage

JAG-ES-1000kW / 500kW - 2150kWh-B01  
 JAG-HS-1000kW / 500kW -1200kWp-2150kWh-B01



### JAPlanet

Liquid Cooled C&I  
 ESS Product  
 BP-ES-125kW-261kWh-B02



### JAPlanet Air Cooling Utility-Scale Energy Storage

JAP-ES-100kW-215kWh-B01  
 JAP-HS-100kW-150kWp-215kWh-B01



Harvest the Sunshine

JA SOLAR

730W



# JAM66D46 LB n-type Double Glass Bifacial Modules

## Premium Cells

n-  
Bycium+  
18BB

MBB Half-Cell  
Technology

26%

Up To

Cell Conversion  
Efficiency

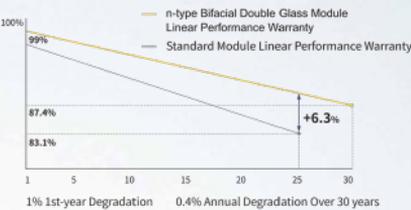
## Premium Modules

Higher power  
generation better LCOE

LID n-type with very  
Lower LID

Better Temperature  
Coefficient

Better low irradiance  
response

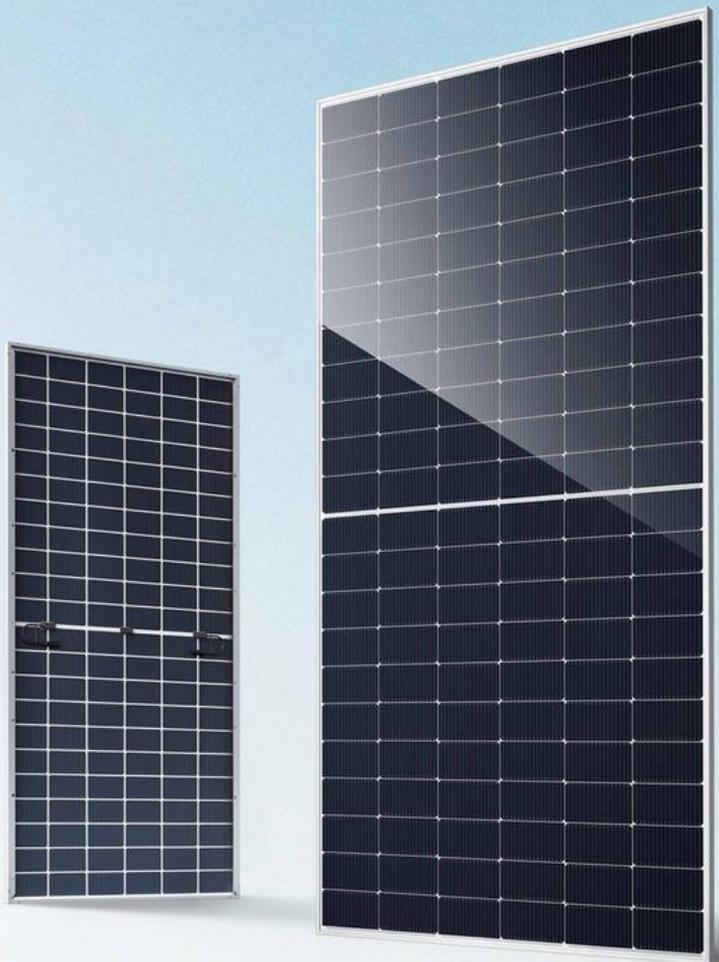


12-year product  
warranty

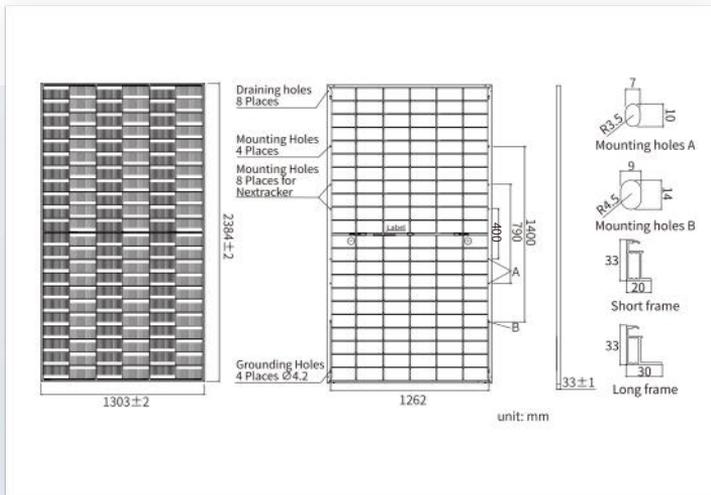
30-year linear power  
output warranty

## 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



# JAM66D46 LB n-type Double Glass Bifacial Modules



## MECHANICAL PARAMETERS

Cell	Mono
Weight	38.2kg
Dimensions	2384±2mm × 1303±2mm × 33±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	132(6 × 22)
Junction Box	IP68, 3diodes
Connector	QC 4.10-35I/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 400mm(+)/200mm(-) Landscape: 1400mm(+)/1400mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	33pcs/Pallet, 594pcs/40HQ Container

Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

TYPE	JAM66D46 -705/LB	JAM66D46 -710/LB	JAM66D46 -715/LB	JAM66D46 -720/LB	JAM66D46 -725/LB	JAM66D46 -730/LB
Rated Maximum Power(Pmax) [W]	705	710	715	720	725	730
Open Circuit Voltage(Voc) [V]	48.40	48.60	48.80	49.00	49.20	49.40
Maximum Power Voltage(Vmp) [V]	40.61	40.80	41.00	41.19	41.39	41.58
Short Circuit Current(Isc) [A]	18.47	18.51	18.55	18.59	18.63	18.67
Maximum Power Current(Imp) [A]	17.36	17.40	17.44	17.48	17.52	17.56
Module Efficiency[%]	22.7	22.9	23.0	23.2	23.3	23.5
Power Tolerance	0~+3%					
Temperature Coefficient of Isc( $\alpha_{Isc}$ )	+0.045%/°C					
Temperature Coefficient of Voc( $\beta_{Voc}$ )	-0.250%/°C					
Temperature Coefficient of Pmax( $\gamma_{Pmp}$ )	-0.290%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G					

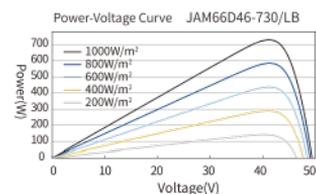
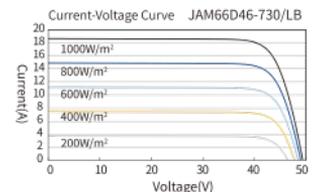
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

## ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM66D46 -705/LB	JAM66D46 -710/LB	JAM66D46 -715/LB	JAM66D46 -720/LB	JAM66D46 -725/LB	JAM66D46 -730/LB
Rated Max Power(Pmax) [W]	761	767	772	778	783	788
Open Circuit Voltage(Voc) [V]	48.40	48.60	48.80	49.00	49.20	49.40
Max Power Voltage(Vmp) [V]	40.61	40.80	41.00	41.19	41.39	41.58
Short Circuit Current(Isc) [A]	19.95	19.99	20.03	20.08	20.12	20.16
Max Power Current(Imp) [A]	18.75	18.79	18.84	18.88	18.92	18.96
Irradiation Ratio (rear/front)	10%					

\* 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~+85°C
Maximum Series Fuse Rating	35A
Maximum Static Load, Front*	5400Pa(112 lb/ft <sup>2</sup> )
Maximum Static Load, Back*	2400Pa(50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

Harvest the Sunshine

JA SOLAR

670W   

JAM66D50 GB n-type Double Glass Bifacial Modules

**DEEP BLUE 5.0** Intelligent · Quality · Evolution

## Premium Modules

### Higher Power Output

Bycium+ 5.0 Cell Technology  
Full-Screen Design

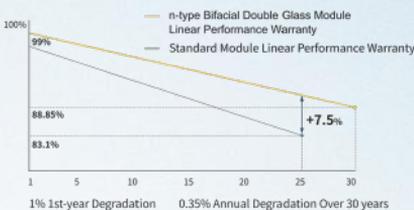
### Enhanced Reliability

Anti-Dust Frame Design  
Composite Structure Enhancement Technology

### Higher Power Generation

Higher Bifaciality (85%)  
Better Temperature Coefficient (-0.26%/°C)  
Excellent Low-Light Performance

### Lower LCOE Higher Customer Value

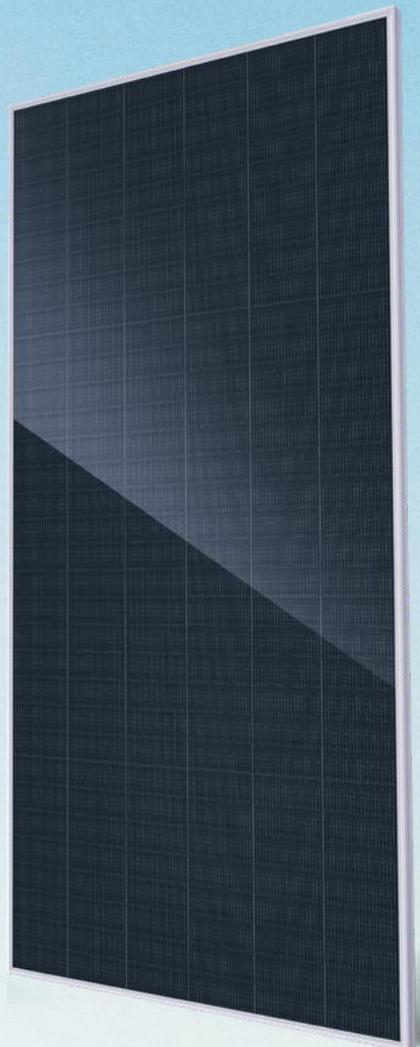


 12-year product warranty

 30-year linear power output warranty

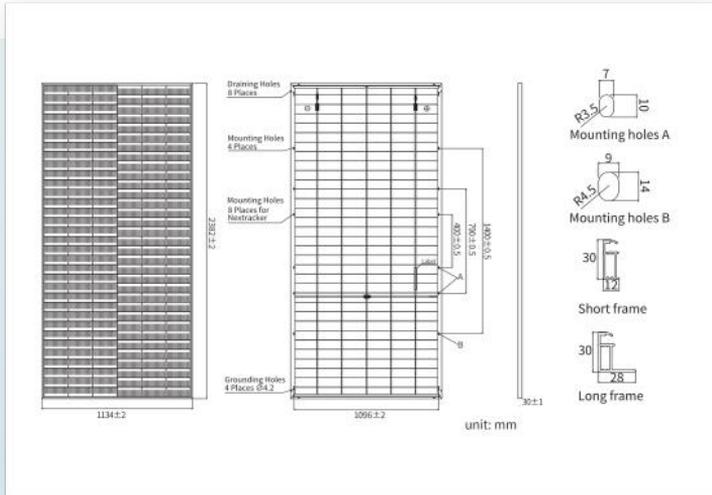
### Comprehensive Certificates

- 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 5.0**

# JAM66D50 GB n-type Double Glass Bifacial Modules



## MECHANICAL PARAMETERS

Cell	Mono
Weight	33.1kg
Dimensions	2382 ± 2mm × 1134 ± 2mm × 30 ± 1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	198(6 × 33)
Junction Box	IP68, 3diodes
Connector	QC 4.10-35I/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1400mm(+)/1400mm(-)
Frame	Anodized Aluminium Alloy
Front Glass	2.0mm, Anti-reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

TYPE	JAM66D50 -645/GB	JAM66D50 -650/GB	JAM66D50 -655/GB	JAM66D50 -660/GB	JAM66D50 -665/GB	JAM66D50 -670/GB
Rated Maximum Power(Pmax) [W]	645	650	655	660	665	670
Open Circuit Voltage (Voc) [V]	49.96	50.05	50.14	50.23	50.32	50.41
Maximum Power Voltage(Vmp) [V]	40.98	41.17	41.36	41.56	41.75	41.93
Short Circuit Current(Isc) [A]	16.53	16.58	16.63	16.68	16.73	16.78
Maximum Power Current(Imp) [A]	15.74	15.79	15.84	15.89	15.93	15.98
Module Efficiency [%]	23.9	24.1	24.2	24.4	24.6	24.8
Power Tolerance	0~+3%					
Temperature Coefficient of Isc(α <sub>Isc</sub> )	+0.041%/°C					
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.220%/°C					
Temperature Coefficient of Pmax(γ <sub>Pmp</sub> )	-0.260%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G					

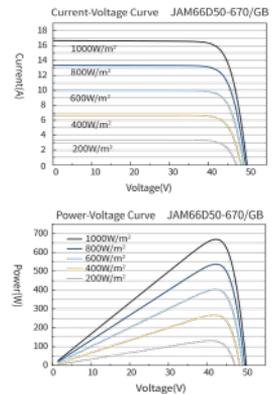
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

## ELECTRICAL PARAMETERS AT BNPI

TYPE	JAM66D50 -645/GB	JAM66D50 -650/GB	JAM66D50 -655/GB	JAM66D50 -660/GB	JAM66D50 -665/GB	JAM66D50 -670/GB
Rated Max Power(Pmax) [W]	715	720	726	731	737	742
Open Circuit Voltage(Voc) [V]	49.96	50.05	50.14	50.23	50.32	50.41
Max Power Voltage(Vmp) [V]	40.98	41.17	41.36	41.56	41.75	41.93
Short Circuit Current(Isc) [A]	18.32	18.37	18.43	18.48	18.54	18.59
Max Power Current(Imp) [A]	17.44	17.50	17.55	17.60	17.65	17.71
BNPI	Front Irradiance 1000W/m <sup>2</sup> , Rear Irradiance 135W/m <sup>2</sup> , cell temperature 25°C, AM1.5G					

\* 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	35A
Maximum Static Load, Front*	5400Pa(112 lb/ft <sup>2</sup> )
Maximum Static Load, Back*	2400Pa(50 lb/ft <sup>2</sup> )
NOCT	45 ± 2°C
Bifaciality	85% ± 5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

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



### Headquarters

No. 8 Building, Nuode Center, No.1 Courtyard, East Auto Museum Road, Fengtai District, Beijing  
Tel: +86 10 6361 1888 Fax: +86 10 6361 1999  
E-mail: sales@jasolar.com marketing@jasolar.com www.jasolar.com

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

Version No.: Global-EN-20251219A

# Harvest the Sunshine

# 655W



# JA SOLAR

Preliminary Version

## JAM66D45 LB n-type Double Glass Bifacial Modules

### Premium Cells



SMBB Half-Cell Technology

# 26%



Cell Conversion Efficiency

### Premium Modules



Higher power generation better LCOE



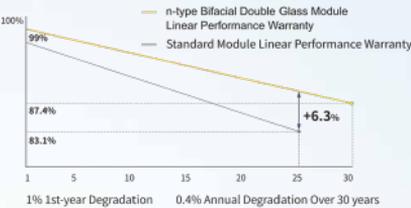
n-type with very Lower LID



Better Temperature Coefficient



Better low irradiance response

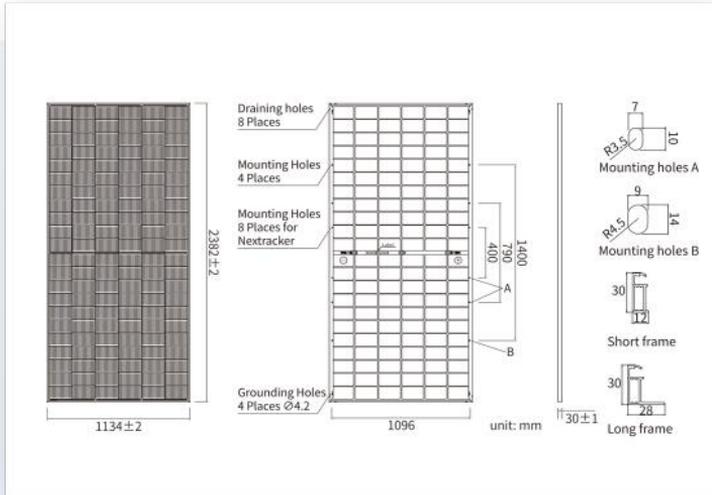


### Comprehensive Certificates

- 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



# JAM66D45 LB n-type Double Glass Bifacial Modules



## MECHANICAL PARAMETERS

Cell	Monocrystalline
Weight	33.1kg
Dimensions	2382±2mm × 1134±2mm × 30±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	132(6 × 22)
Junction Box	IP68, 3diodes
Connector	QC 4.10-35I/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 400mm(+)/200mm(-) Landscape: 1400mm(+)/1400mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

TYPE	JAM66D45 -630/LB	JAM66D45 -635/LB	JAM66D45 -640/LB	JAM66D45 -645/LB	JAM66D45 -650/LB	JAM66D45 -655/LB
Rated Maximum Power(P <sub>max</sub> ) [W]	630	635	640	645	650	655
Open Circuit Voltage (V <sub>oc</sub> ) [V]	48.90	49.10	49.39	49.68	49.97	50.26
Maximum Power Voltage(V <sub>mp</sub> ) [V]	40.70	40.94	41.20	41.43	41.67	41.91
Short Circuit Current(I <sub>sc</sub> ) [A]	16.18	16.21	16.24	16.27	16.30	16.33
Maximum Power Current(I <sub>mp</sub> ) [A]	15.48	15.51	15.54	15.57	15.60	15.63
Module Efficiency [%]	23.3	23.5	23.7	23.9	24.1	24.2
Power Tolerance	0~+3%					
Temperature Coefficient of I <sub>sc</sub> (α <sub>Isc</sub> )	+0.045%/°C					
Temperature Coefficient of V <sub>oc</sub> (β <sub>Voc</sub> )	-0.250%/°C					
Temperature Coefficient of P <sub>max</sub> (γ <sub>Pmp</sub> )	-0.280%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G					

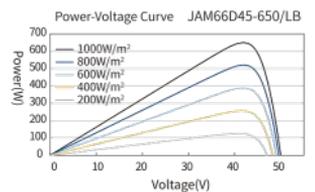
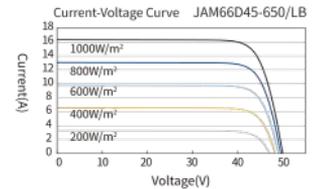
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

## ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM66D45 -630/LB	JAM66D45 -635/LB	JAM66D45 -640/LB	JAM66D45 -645/LB	JAM66D45 -650/LB	JAM66D45 -655/LB
Rated Max Power(P <sub>max</sub> ) [W]	680	686	691	697	702	707
Open Circuit Voltage(V <sub>oc</sub> ) [V]	48.90	49.10	49.39	49.68	49.97	50.26
Max Power Voltage(V <sub>mp</sub> ) [V]	40.70	40.94	41.20	41.43	41.67	41.91
Short Circuit Current(I <sub>sc</sub> ) [A]	17.47	17.51	17.54	17.57	17.60	17.64
Max Power Current(I <sub>mp</sub> ) [A]	16.72	16.75	16.78	16.82	16.85	16.88
Irradiation Ratio (rear/front)	10%					

\* 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~+85°C
Maximum Series Fuse Rating	35A
Maximum Static Load, Front*	5400Pa(112 lb/ft <sup>2</sup> )
Maximum Static Load, Back*	2400Pa(50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Bifaciality	85%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C



### Headquarters

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Tel: +86 10 6361 1888 Fax: +86 10 6361 1999  
E-mail: sales@jasolar.com marketing@jasolar.com www.jasolar.com

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

Version No.: Global-EN-20250826A

Harvest the Sunshine

JA SOLAR

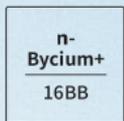
630W



# JAM66D45 LB

n-type Double Glass Bifacial Modules

## Premium Cells



MBB Half-Cell Technology

26%



Cell Conversion Efficiency

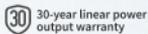
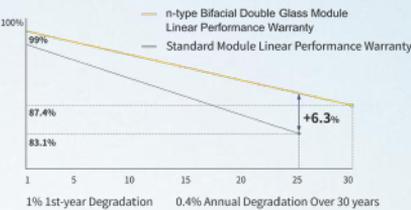
## Premium Modules

Distributed Priority, Higher Customer Value

Advanced n-type Bycium+ cell technology

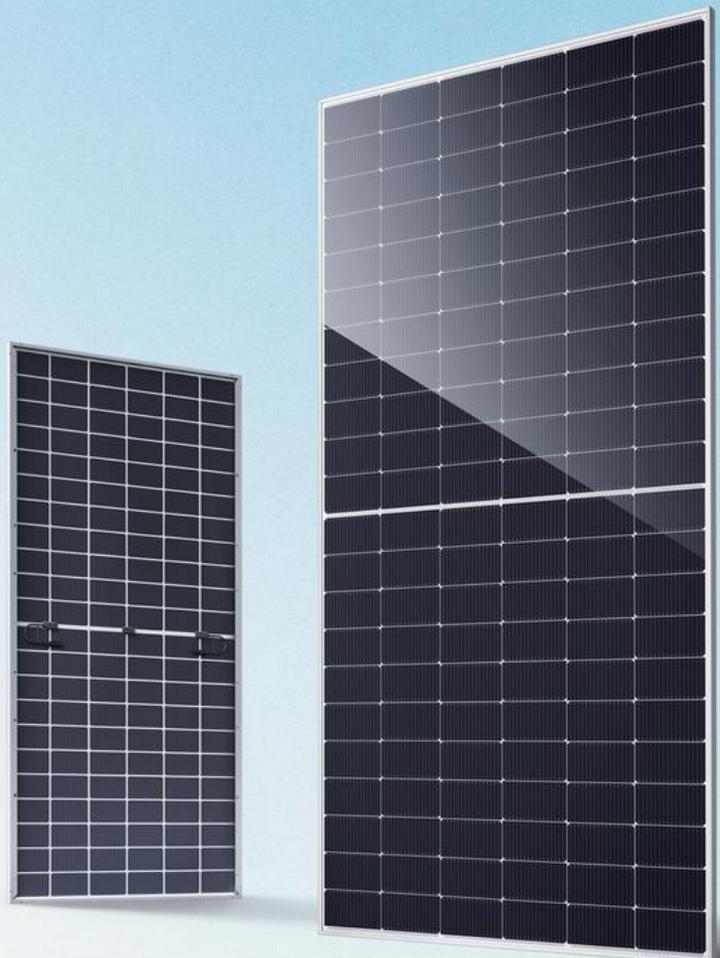
High strength, excellent loading capacity

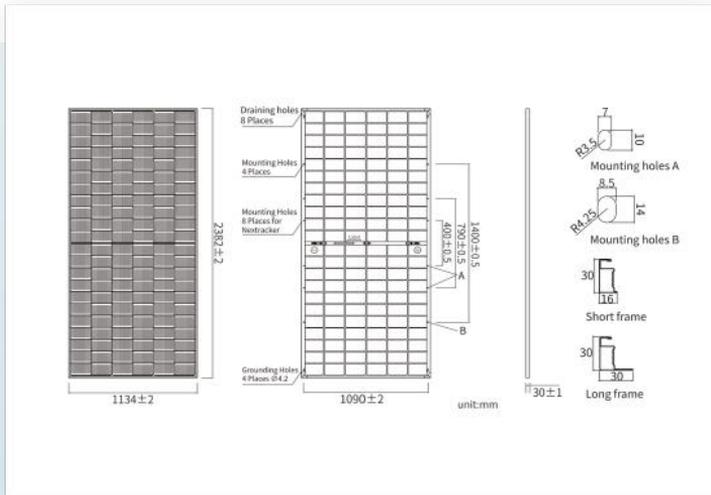
Excellent reliability, certified by authoritative institutions



## 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





### MECHANICAL PARAMETERS

Cell	Mono
Weight	34.5kg
Dimensions	2382±2mm × 1134±2mm × 30±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	132(6 × 22)
Junction Box	IP68, 3diodes
Connector	QC 4.10-351
Cable Length (Including Connector)	Portrait: 400mm(+)/200mm(-) Landscape: 1400mm(+)/1400mm(-)
Frame	High strength alloy steel
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

Remark: customized frame color and cable length available upon request

### ELECTRICAL PARAMETERS AT STC

TYPE	JAM66D45 -605/LB	JAM66D45 -610/LB	JAM66D45 -615/LB	JAM66D45 -620/LB	JAM66D45 -625/LB	JAM66D45 -630/LB
Rated Maximum Power(Pmax) [W]	605	610	615	620	625	630
Open Circuit Voltage (Voc) [V]	47.90	48.10	48.30	48.50	48.70	48.90
Maximum Power Voltage(Vmp) [V]	39.60	39.77	39.96	40.21	40.45	40.70
Short Circuit Current(Isc) [A]	16.00	16.05	16.10	16.13	16.15	16.18
Maximum Power Current(Imp) [A]	15.28	15.34	15.39	15.42	15.45	15.48
Module Efficiency [%]	22.4	22.6	22.8	23.0	23.1	23.3
Power Tolerance	0~+3%					
Temperature Coefficient of Isc(α <sub>Isc</sub> )	+0.045%/°C					
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.250%/°C					
Temperature Coefficient of Pmax(γ <sub>Pmp</sub> )	-0.290%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G					

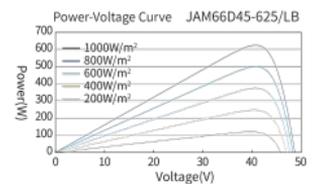
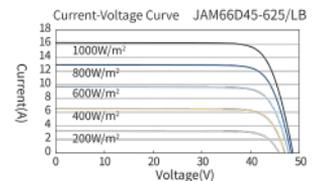
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

### ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM66D45 -605/LB	JAM66D45 -610/LB	JAM66D45 -615/LB	JAM66D45 -620/LB	JAM66D45 -625/LB	JAM66D45 -630/LB
Rated Max Power(Pmax) [W]	653	659	664	670	675	680
Open Circuit Voltage(Voc) [V]	47.90	48.10	48.30	48.50	48.70	48.90
Max Power Voltage(Vmp) [V]	39.60	39.77	39.96	40.21	40.45	40.70
Short Circuit Current(Isc) [A]	17.28	17.33	17.39	17.42	17.44	17.47
Max Power Current(Imp) [A]	16.50	16.56	16.62	16.65	16.69	16.72
Irradiation Ratio (rear/front)	10%					

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

### CHARACTERISTICS



### OPERATING CONDITIONS

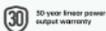
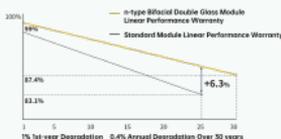
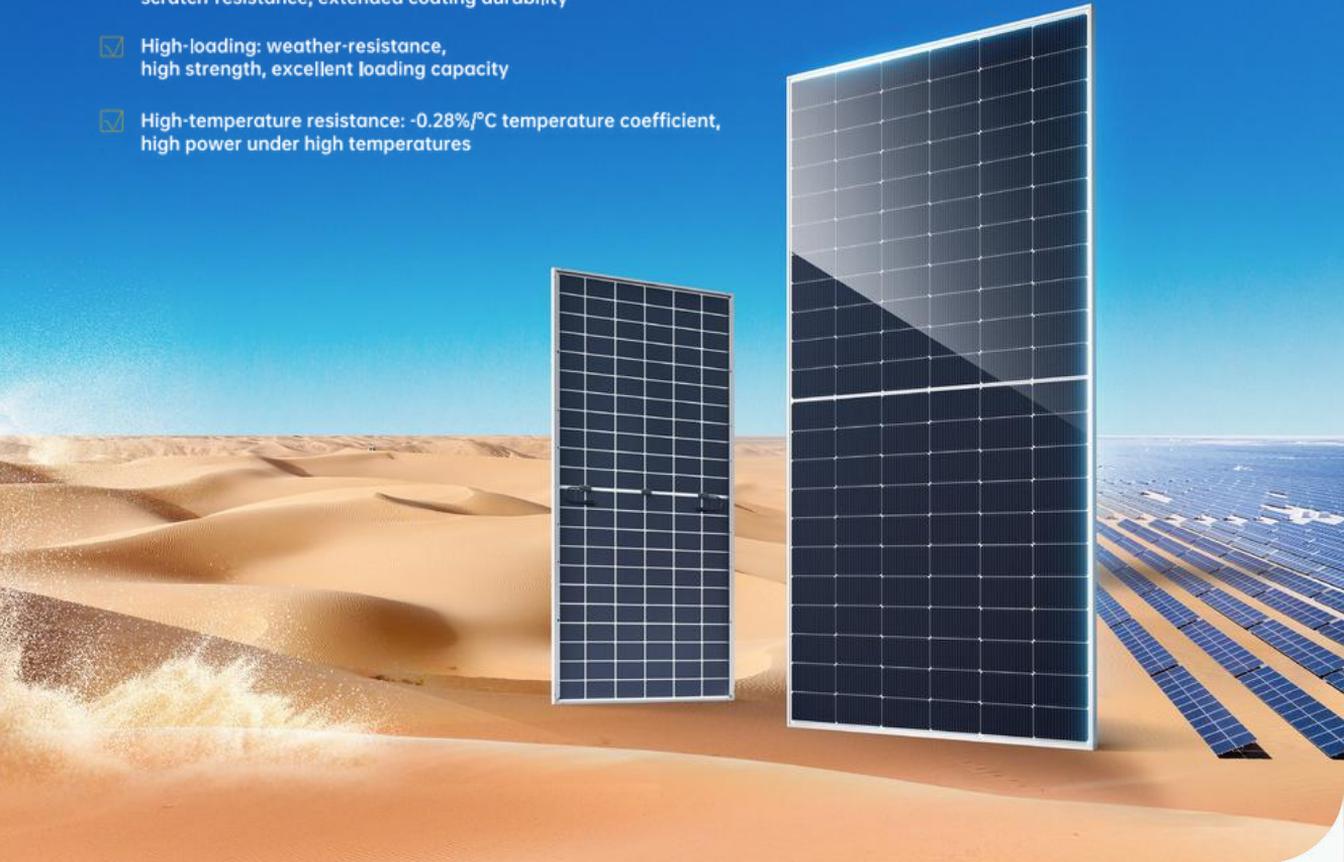
Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	35A
Maximum Static Load, Front*	5400Pa(112 lb/ft <sup>2</sup> )
Maximum Static Load, Back*	2400Pa(50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

# 630W

## JAM66D45 LB n-type Double Glass Bifacial Modules

「 Designed for high temperature, low rainfall, and desert environments 」

- ✓ Self-cleaning: low dust adhesion, hot-spots resistance, high light transmission
- ✓ Abrasion-resistance: high hardness, scratch-resistance, extended coating durability
- ✓ High-loading: weather-resistance, high strength, excellent loading capacity
- ✓ High-temperature resistance:  $-0.28\%/^{\circ}\text{C}$  temperature coefficient, high power under high temperatures



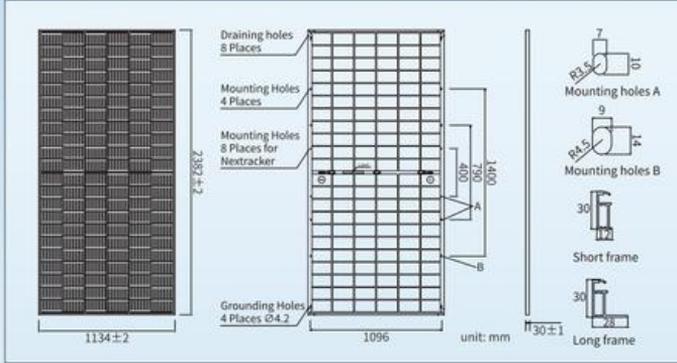
### Comprehensive Certificates

- 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



# JAM66D45 LB

n-type Double Glass Bifacial Modules



## MECHANICAL PARAMETERS

Cell	Mono
Weight	33.1kg
Dimensions	2382±2mm × 1134±2mm × 30±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	132(6 × 22)
Junction Box	IP68, 3diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 400mm(+)/200mm(-) Landscape: 1400mm(+)/1400mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

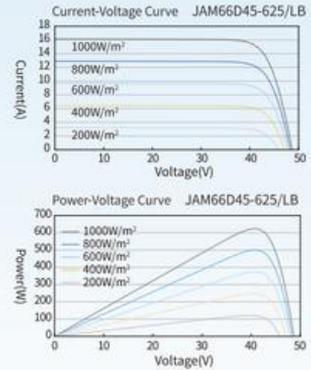
Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

TYPE	JAM66D45					
	-605/LB	-610/LB	-615/LB	-620/LB	-625/LB	-630/LB
Rated Maximum Power(Pmax) [W]	605	610	615	620	625	630
Open Circuit Voltage (Voc) [V]	47.90	48.10	48.30	48.50	48.70	48.90
Maximum Power Voltage(Vmp) [V]	39.60	39.77	39.96	40.21	40.45	40.70
Short Circuit Current(Isc) [A]	16.00	16.05	16.10	16.13	16.15	16.18
Maximum Power Current(Imp) [A]	15.28	15.34	15.39	15.42	15.45	15.48
Module Efficiency [%]	22.4	22.6	22.8	23.0	23.1	23.3
Power Tolerance	0~+3%					
Temperature Coefficient of Isc/α <sub>Isc</sub>	+0.045%/°C					
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.250%/°C					
Temperature Coefficient of Pmax(γ <sub>Pmp</sub> )	-0.280%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , 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	JAM66D45					
	-605/LB	-610/LB	-615/LB	-620/LB	-625/LB	-630/LB
Rated Max Power(Pmax) [W]	653	659	664	670	675	680
Open Circuit Voltage(Voc) [V]	47.90	48.10	48.30	48.50	48.70	48.90
Max Power Voltage(Vmp) [V]	39.60	39.77	39.96	40.21	40.45	40.70
Short Circuit Current(Isc) [A]	17.28	17.33	17.39	17.42	17.44	17.47
Max Power Current(Imp) [A]	16.50	16.56	16.62	16.65	16.69	16.72
Irradiation Ratio (rear/front)	10%					

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

## OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	35A
Maximum Static Load, Front*	5400Pa(112 lb/ft <sup>2</sup> )
Maximum Static Load, Back*	2400Pa(50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

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

Version No. : Global-EN-20250922C

## Headquarters

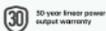
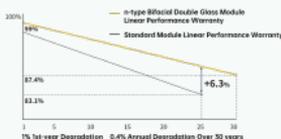
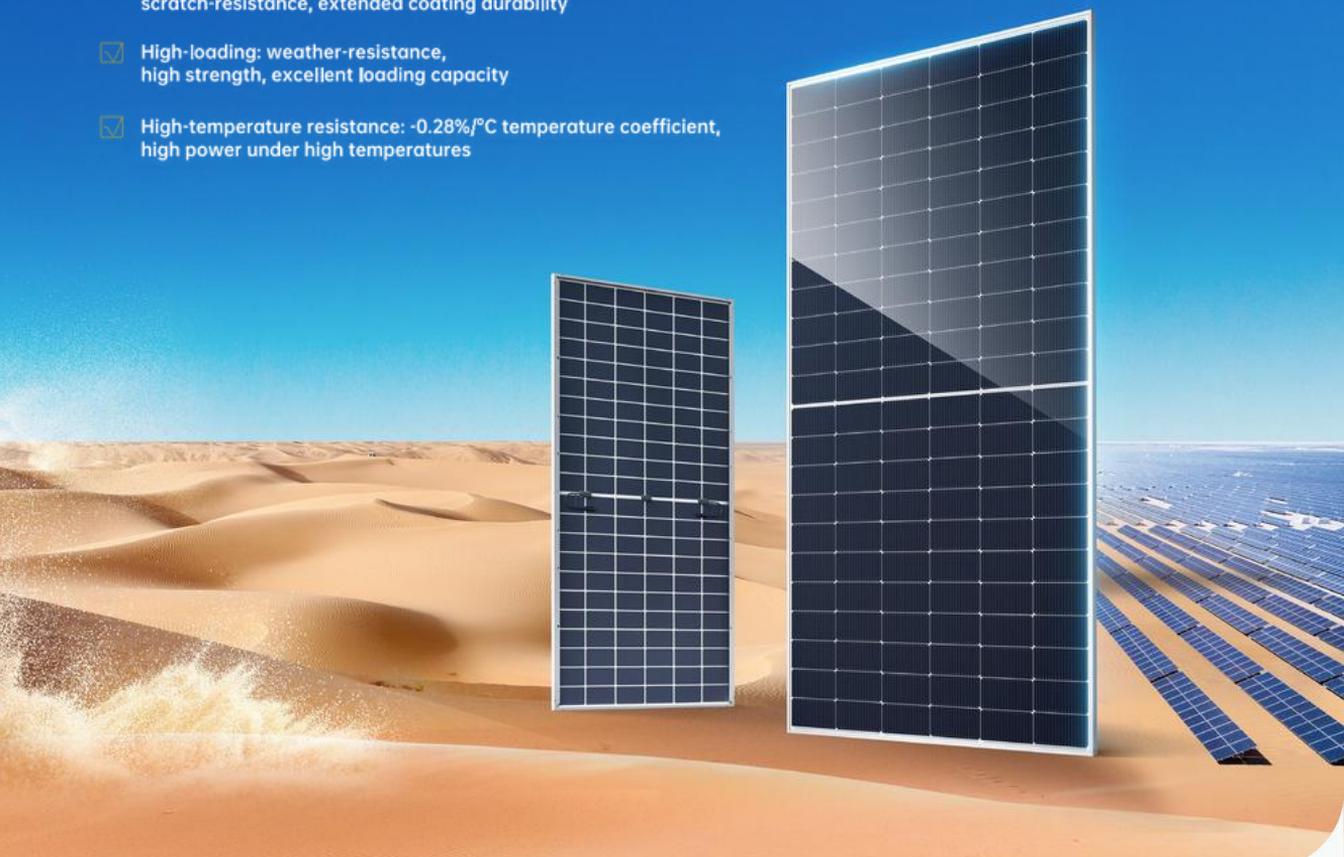
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# 650W

## JAM66D45 LB n-type Double Glass Bifacial Modules

「 Designed for high temperature, low rainfall, and desert environments 」

- ✓ Self-cleaning: low dust adhesion, hot-spots resistance, high light transmission
- ✓ Abrasion-resistance: high hardness, scratch-resistance, extended coating durability
- ✓ High-loading: weather-resistance, high strength, excellent loading capacity
- ✓ High-temperature resistance:  $-0.28\%/^{\circ}\text{C}$  temperature coefficient, high power under high temperatures



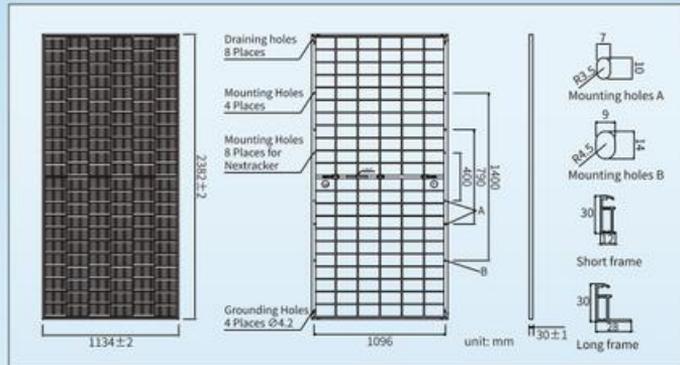
### Comprehensive Certificates

- 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



# JAM66D45 LB

n-type Double Glass Bifacial Modules



## MECHANICAL PARAMETERS

Cell	Mono
Weight	33.1kg
Dimensions	2382±2mm × 1134±2mm × 30±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	132(6×22)
Junction Box	IP68, 3diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 400mm(+)/200mm(-) Landscape: 1400mm(+)/1400mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

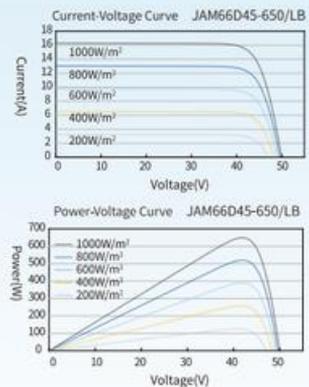
Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

TYPE	JAM66D45 -625/LB	JAM66D45 -630/LB	JAM66D45 -635/LB	JAM66D45 -640/LB	JAM66D45 -645/LB	JAM66D45 -650/LB
Rated Maximum Power(Pmax) [W]	625	630	635	640	645	650
Open Circuit Voltage (Voc) [V]	48.70	48.90	49.10	49.39	49.68	49.97
Maximum Power Voltage(Vmp) [V]	40.45	40.70	40.94	41.20	41.43	41.67
Short Circuit Current(Isc) [A]	16.15	16.18	16.21	16.24	16.27	16.30
Maximum Power Current(Imp) [A]	15.45	15.48	15.51	15.54	15.57	15.60
Module Efficiency [%]	23.1	23.3	23.5	23.7	23.9	24.1
Power Tolerance	0~+3%					
Temperature Coefficient of Isc(α <sub>Isc</sub> )	+0.045%/°C					
Temperature Coefficient of Voc(β <sub>Voc</sub> )	-0.250%/°C					
Temperature Coefficient of Pmax(γ <sub>Pmp</sub> )	-0.280%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , 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	JAM66D45 -625/LB	JAM66D45 -630/LB	JAM66D45 -635/LB	JAM66D45 -640/LB	JAM66D45 -645/LB	JAM66D45 -650/LB
Rated Max Power(Pmax) [W]	675	680	686	691	697	702
Open Circuit Voltage(Voc) [V]	48.70	48.90	49.10	49.39	49.68	49.97
Max Power Voltage(Vmp) [V]	40.45	40.70	40.94	41.20	41.43	41.67
Short Circuit Current(Isc) [A]	17.44	17.47	17.51	17.54	17.57	17.60
Max Power Current(Imp) [A]	16.69	16.72	16.75	16.78	16.82	16.85
Irradiation Ratio (rear/front)	10%					

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

## OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	35A
Maximum Static Load, Front*	5400Pa(112 lb/ft <sup>2</sup> )
Maximum Static Load, Back*	2400Pa(50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Bifaciality	85%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

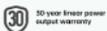
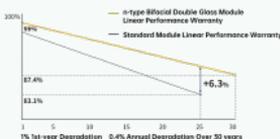
### Headquarters

720W 

JAM66D46 LB n-type Double Glass Bifacial Modules

「 Designed for high temperature, low rainfall, and desert environments 」

- ✓ Self-cleaning: low dust adhesion, hot-spots resistance, high light transmission
- ✓ Abrasion-resistance: high hardness, scratch-resistance, extended coating durability
- ✓ High-loading: weather-resistance, high strength, excellent loading capacity
- ✓ High-temperature resistance:  $-0.28\%/^{\circ}\text{C}$  temperature coefficient, high power under high temperatures



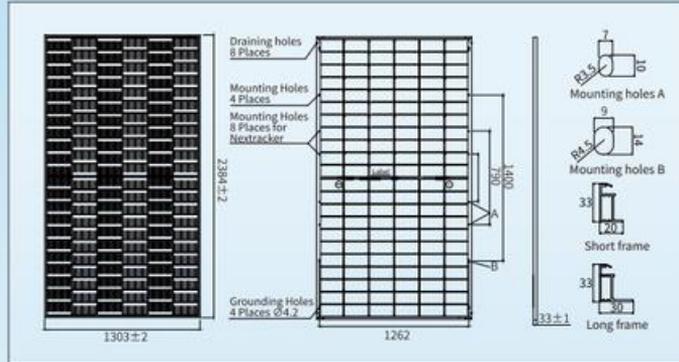
Comprehensive Certificates

- 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



# JAM66D46 LB

n-type Double Glass Bifacial Modules



## MECHANICAL PARAMETERS

Cell	Mono
Weight	38.2kg
Dimensions	2384±2mm × 1303±2mm × 33±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	132(6×22)
Junction Box	IP68, 3diodes
Connector	QC 4.10-35I/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 400mm(+)/200mm(-) Landscape: 1400mm(+)/1400mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	33pcs/Pallet, 594pcs/40HQ Container

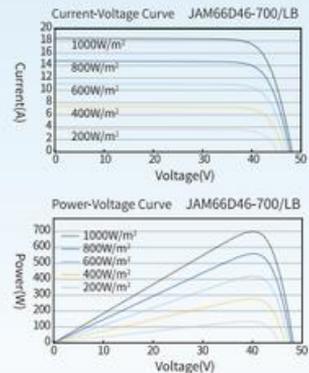
Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

TYPE	JAM66D46 -695/LB	JAM66D46 -700/LB	JAM66D46 -705/LB	JAM66D46 -710/LB	JAM66D46 -715/LB	JAM66D46 -720/LB
Rated Maximum Power(Pmax) [W]	695	700	705	710	715	720
Open Circuit Voltage (Voc) [V]	48.00	48.20	48.40	48.60	48.80	49.00
Maximum Power Voltage(Vmp) [V]	40.22	40.42	40.61	40.80	41.00	41.19
Short Circuit Current(Isc) [A]	18.39	18.43	18.47	18.51	18.55	18.59
Maximum Power Current(Imp) [A]	17.28	17.32	17.36	17.40	17.44	17.48
Module Efficiency [%]	22.4	22.5	22.7	22.9	23.0	23.2
Power Tolerance	0~+3%					
Temperature Coefficient of Isc/α <sub>Isc</sub>	+0.045%/°C					
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.250%/°C					
Temperature Coefficient of Pmax(γ <sub>Pmp</sub> )	-0.280%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , 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	JAM66D46 -695/LB	JAM66D46 -700/LB	JAM66D46 -705/LB	JAM66D46 -710/LB	JAM66D46 -715/LB	JAM66D46 -720/LB
Rated Max Power(Pmax) [W]	751	756	761	767	772	778
Open Circuit Voltage(Voc) [V]	48.00	48.20	48.40	48.60	48.80	49.00
Max Power Voltage(Vmp) [V]	40.22	40.42	40.61	40.80	41.00	41.19
Short Circuit Current(Isc) [A]	19.86	19.90	19.95	19.99	20.03	20.08
Max Power Current(Imp) [A]	18.66	18.71	18.75	18.79	18.84	18.88
Irradiation Ratio (rear/front)	10%					

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

## OPERATING CONDITIONS

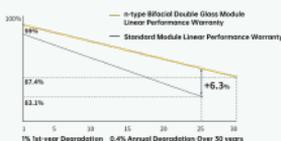
Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	35A
Maximum Static Load, Front*	5400Pa(112 lb/ft <sup>2</sup> )
Maximum Static Load, Back*	2400Pa(50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

# 720W

## JAM66D46 LB n-type Double Glass Bifacial Modules

「 Designed for high temperature, low rainfall, and desert environments 」

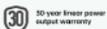
- ☑ Self-cleaning: low dust adhesion, hot-spots resistance, high light transmission
- ☑ Abrasion-resistance: high hardness, scratch-resistance, extended coating durability
- ☑ High-loading: weather-resistance, high strength, excellent loading capacity
- ☑ High-temperature resistance:  $-0.28\%/^{\circ}\text{C}$  temperature coefficient, high power under high temperatures



### Comprehensive Certificates

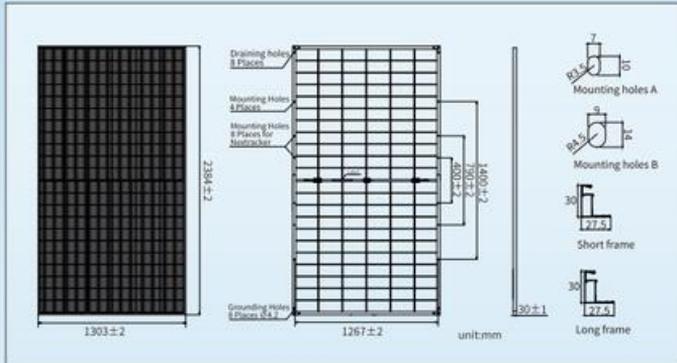
- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing

JA SOLAR



# JAM66D46 LB

n-type Double Glass Bifacial Modules



## MECHANICAL PARAMETERS

Cell	Mono
Weight	39.8kg
Dimensions	2384±2mm × 1303±2mm × 30±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	132(6×22)
Junction Box	IP68, 3diodes
Connector	QC 4.10-35I/ MC4-EVO2A
Cable Length	Portrait: 400mm(+)/200mm(-) (Including Connector)
Frame	High strength alloy steel
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 648pcs/40HQ Container

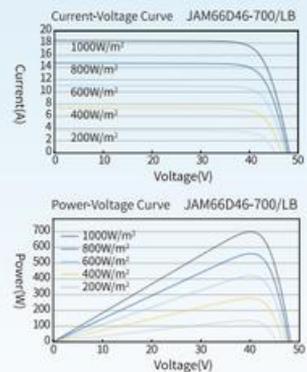
Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

TYPE	JAM66D46 -695/LB	JAM66D46 -700/LB	JAM66D46 -705/LB	JAM66D46 -710/LB	JAM66D46 -715/LB	JAM66D46 -720/LB
Rated Maximum Power(Pmax) [W]	695	700	705	710	715	720
Open Circuit Voltage (Voc) [V]	48.00	48.20	48.40	48.60	48.80	49.00
Maximum Power Voltage(Vmp) [V]	40.22	40.42	40.61	40.80	41.00	41.19
Short Circuit Current(Isc) [A]	18.39	18.43	18.47	18.51	18.55	18.59
Maximum Power Current(Imp) [A]	17.28	17.32	17.36	17.40	17.44	17.48
Module Efficiency [%]	22.4	22.5	22.7	22.9	23.0	23.2
Power Tolerance	0~+3%					
Temperature Coefficient of Isc(α <sub>Isc</sub> )	+0.045%/°C					
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.250%/°C					
Temperature Coefficient of Pmax(γ <sub>Pmp</sub> )	-0.280%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , 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	JAM66D46 -695/LB	JAM66D46 -700/LB	JAM66D46 -705/LB	JAM66D46 -710/LB	JAM66D46 -715/LB	JAM66D46 -720/LB
Rated Max Power(Pmax) [W]	751	756	761	767	772	778
Open Circuit Voltage(Voc) [V]	48.00	48.20	48.40	48.60	48.80	49.00
Max Power Voltage(Vmp) [V]	40.22	40.42	40.61	40.80	41.00	41.19
Short Circuit Current(Isc) [A]	19.86	19.90	19.95	19.99	20.03	20.08
Max Power Current(Imp) [A]	18.66	18.71	18.75	18.79	18.84	18.88
Irradiation Ratio (rear/front)	10%					

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

## OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	35A
Maximum Static Load, Front*	5400Pa(112 lb/ft <sup>2</sup> )
Maximum Static Load, Back*	2400Pa(50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

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# JAGalaxy Utility Liquid-Cooled ESS

JAG-BS-0.5CP-5015kWh-B01



## KEY STRENGTHS



### COST-EFFECTIVENESS

- Single side access door design, back-to back or side-by-side layout design can reduce the footprint by 32%.
- Compared to the previous liquid cooling system, energy density increases by 49%.



### HIGH EFFICIENCY

- Smart liquid cooling system with the cell operating temperature  $\leq 35^{\circ}\text{C}$ , cell temperature difference  $\leq 3^{\circ}\text{C}$ , and auxiliary power consumption reduced by 10%.
- Rack-level management enables individual rack control for high system efficiency.



### ULTIMATE SAFETY

- LFP battery cells for safety and extended lifespan.
- Pack level & Container level Aerosol to ensure system safety.



### SMART & CONVENIENT

- Cloud-based health status assessment with dynamic energy efficiency management strategy adjustment.
- Intelligent fault-handling recommendations with field maintenance and inspection support.

ITEM	SPECIFICATIONS
Battery Cell Type	LFP 314Ah
Pack Type	1P*416S
System Configuration	12P*416S
Voltage Range	1164.8~1497.6Vdc
Charge/Discharge Rate	0.5P
Nominal Energy	5.015MWh
Nominal Power	2.508MW
Dimensions (W×D×H)	6058 × 2438 × 2896 mm
Weight	<42.5t
Charge/Discharge Efficiency	≥93%
IP Rating	IP55 (Battery Compartment)
Thermal Management	Intelligent Liquid Cooling
Fire Protection System	Aerosol + Water Fire Suppression
Communication	CAN/RS485/Ethernet
Operating Temp. Range	-30°C ~ 50°C (Derated at -45°C)
Storage Humidity	0~95% (Non-condensing)
Noise	≤ 75dBA
Max. Operating Altitude	4000 m (Derated at 2000m)

\*Specification indexes may be subject to changes without prior notice.

# JAGalaxy Air Cooling Utility-Scale Energy Storage

JAG-ES-1000kW-2150kWh-B01  
JAG-HS-1000kW-1200kWp-2150kWh-B01



## PRODUCT HIGHLIGHTS



### SAFETY & RELIABILITY

- LFP battery cells for safety and extended lifespan
- Physical isolation between battery and electrical compartments contains thermal transmission



### FLEXIBILITY & COMPATIBILITY

- Multi-source inputs/outputs (PV/Battery/DG/Grid /Load)
- Configurable operating modes for diverse scenarios
- Walk-in access enables quick troubleshooting and maintenance



### INTELLIGENCE & EFFICIENCY

- Real-time system monitoring with cloud connectivity
- Integrated plug-and-play design for rapid installation
- Advanced battery management system and comprehensive thermal management system

## APPLICATIONS



Off-grid Systems  
Microgrid Systems



Commercial &  
Industrial Peak Shaving



Critical  
Backup Power



Grid  
Support Services

## TECHNICAL SPECIFICATIONS — JAGALAXY

MODEL	JAG-ES-1000kW-2150kWh-B01	JAG-HS-1000kW-1200kWp-2150kWh-B01
<b>AC data</b>		
	1000	
Rated power (kW)	400	
Rated voltage (V)	1445	
Rated current (A)	320~460V	
Voltage range (V)	50/60	
Rated frequency (Hz)	1.0 leading ~ 1.0 lagging	
Power factor	110% long term, 120% 1min	
Overload capacity	315/400	
Isolation transformer	3W+N+PE	
AC system	Support (20ms)	
<b>On/off-grid switching</b>		
<b>PV Data</b>		
Max. PV input voltage (V)	/	1,000
Max. PV power (kWp)	/	1320/1485/1650
MPPT operating voltage range (V)	/	250~1000
<b>Battery Data</b>		
Cell type	3.2V / 280Ah / LFP / 10P240S	
Rated energy (kWh)	2150 kWh (2016kWh)	
Max. charge and discharge rate	0.5C@25°C	
Number of battery cycles	≥6,000 (90%DOD)	
<b>General Data</b>		
Dimensions W *D *H (mm)		
Weight (kg)	12,192 × 2,438 × 2,896	
Operating temperature (°C)	36,000	38,000
Protection Level	0 ~ +45 °C	
Parallel quantity (Off-grid)	IP54	
Max. operating altitude (m)	2	
Cooling methods	5,000m (>3,000 derating)	
Fire extinguishing system	Intelligent air cooling	
EMS communication	Heptafluoropropane	
	RS485, TCP/IP	

\*Specification indexes may be subject to changes without prior notice.

# JAGalaxy Air Cooling Utility-Scale Energy Storage

JAG-ES-500kW-1075kWh-B01

JAG-HS-500kW-600kWp-1075kWh-B01



1000kW -2150kWh

## KEY STRENGTHS



### SAFETY & RELIABILITY

- LFP battery cells for safety and extended lifespan
- Physical isolation between battery and electrical compartments contains thermal transmission



### FLEXIBILITY & COMPATIBILITY

- Multi-source inputs / outputs (PV / Battery / DC / Grid / Load)
- Configurable operating modes for diverse scenarios
- Walk-in access enables quick troubleshooting and maintenance



### INTELLIGENCE & EFFICIENCY

- Real-time system monitoring with cloud connectivity
- Integrated plug-and-play design for rapid installation
- Advanced battery management system and comprehensive thermal management system

## APPLICATIONS



Off-grid Systems  
Microgrid Systems



Commercial &  
Industrial Peak Shaving



Critical  
Backup Power



Grid  
Support Services

## TECHNICAL SPECIFICATIONS — JAGALAXY

MODEL	JAG-ES-500kW-1075kWh-B01	JAG-HS-500kW-600kWp-1075kWh-B01
<b>AC data</b>		
Rated Power (kW)	500	
Rated Voltage (V)	400	
Rated Current (A)	722	
Voltage Range (V)	320~460V	
Rated Frequency (Hz)	50/60	
Power Factor	1.0 Leading ~ 1.0 Lagging	
Overload Capacity	110% Long Term, 120% 1Min	
Isolation Transformer	315/400	
AC System	3W+N+PE	
On/Off-grid Switching	Support (20ms)	
<b>PV Data</b>		
Max. PV Input Voltage (V)	1,000	
Max. PV Power (kWp)	/	1,000
MPPT Operating Voltage Range (V)	/	600
Battery Data	/	250~850
<b>Cell Type</b>		
Rated Energy (kWh)	3.2V / 280Ah / LFP / 5P240S	
Max. Charge and Discharge Rate	1075kWh	
Number of Battery Cycles	0.5C@25°C	
<b>General Data</b>		
Dimensions W *D *H (mm)	≥6,000 (90%DOD)	
<b>Weight (kg)</b>		
Operating Temperature (°C)	6,058 × 2,438 × 2,896	
Protection Level	20,600	21,000
Parallel Quantity (Off-grid)	0°C ~+45 °C	
Max. Operating Altitude (m)	IP54	
Cooling Methods	4	
Fire Extinguishing System	3,000m (>2,000 Derating)	
EMS Communication	Intelligent Air Cooling	
	Heptafluoropropane	
	RS485, TCP/IP	

\*Specification indexes may be subject to changes without prior notice.

# JAPlanet Air Cooling Utility-Scale Energy Storage

JAP-ES-100kW-215kWh-B01

JAP-HS-100kW-150kWhp-215kWh-B01



## KEY STRENGTHS



### SAFETY & RELIABILITY

- LFP battery cells for safety and extended lifespan
- Physical isolation between battery and electrical compartments contains thermal transmission



### FLEXIBILITY & COMPATIBILITY

- Multi-source inputs / outputs (PV / Battery / DG / Grid / Load)
- Configurable operating modes for diverse scenarios



### INTELLIGENCE & EFFICIENCY

- Real-time system monitoring with cloud connectivity
- Integrated plug-and-play design for rapid installation
- Advanced battery management system and comprehensive thermal management system

## APPLICATIONS



Off-grid Systems  
Microgrid Systems



Commercial &  
Industrial Peak Shaving



Critical  
Backup Power



Grid  
Support Services

## TECHNICAL SPECIFICATIONS — JAPLANET

MODEL	JAP-ES-100kW-215kWh-B01	JAP-HS-100kW-150kWp-215kWh-B01
<b>AC data</b>		
Rated Power (kW)	100	
Rated Voltage (V)	400	
Rated Current (A)	144	
Voltage Range (V)	320~460V	
Rated Frequency (Hz)	50/60	
Power Factor	1.0 Leading ~ 1.0 Lagging	
Overload Capacity	110% Long Term, 120% 1Min	
Isolation Transformer	315/400	
AC System	3W+N+PE	
On/Off-grid Switching	Support (20ms)	
<b>PV Data</b>		
Max. PV Input Voltage (V)		
Max. PV Power (kWp)	/	1,000
MPPT Operating Voltage Range (V)	/	150
<b>Battery Data</b>	/	250~850
<b>Cell Type</b>		
Rated Energy (kWh)	3.2V / 280Ah / LFP / 1P240S	
Max. Charge and Discharge Rate	215kWh	
Number of Battery Cycles	0.5C@25°C	
<b>General Data</b>	≥6,000 (90%DOD)	
Operating Temperature (°C)		
<b>Protection Level</b>		
Parallel Quantity (Off-grid)	0°C ~+45 °C	
Max. Operating Altitude (m)	IP54	
Cooling Methods	2	
Fire Extinguishing System	5,000m (>3,000 Derating)	
EMS Communication	Intelligent Air Cooling	
	Heptafluoropropane	
	RS485, TCP/IP	

\*Specification indexes may be subject to changes without prior notice.

# Liquid Cooled C&I ESS Product

BP-ES-125kW-261kWh-B02



## Advantages

### Safety



- Millisecond-level response with real-time insulation monitoring
- TripleGuard Safety: Fire protection (3-tier), explosion-proof design, PACK detection
- Real-time thermal runaway warning

### Cost Efficiency



- Higher ROI with long-life LFP batteries and high-precision SOX management
- System Round-trip efficiency (RTE) up to 88 %
- Liquid cooling maintains batteries at  $\leq 35^{\circ}\text{C}$ , reduces temperature variance to  $\leq 3^{\circ}\text{C}$ , and cuts auxiliary power consumption by 10 %

### Reliability



- AI-driven predictive maintenance slashes downtime by up to 90 %
- Remote resolution fixes 90 % of issues via software updates
- Modular design enables rapid component replacement and enhances service efficiency

## Technical Specifications

Model		BP-ES-125kW-261kWh-B02
DC Side	Nominal Energy	261 kWh
	Cell Capacity	314 Ah LFP
	Nominal Voltage	832 Vdc
	Voltage Range	728 Vdc to 936 Vdc
	Nominal Charge / Discharge Rate	0.5 P
	Depth of Discharge	95 %
	Nominal Power	125 kW
AC Side	Nominal Voltage	380 / 400 Vac, ±15 % (3P4W + PE)
	Nominal Frequency	50 / 60 Hz
	Power Factor	1.0 leading to 1.0 lagging
System Parameters	Dimensions (W × D × H)	989 mm × 1465 mm × 2473 mm
	Cycle Life	8000+
	Weight	2700 kg
	Operation Temperature Range	-30 °C to +50 °C
	Humidity	0 to 95 % RH (non-condensing)
	Cooling Method	Liquid Cooling
	Fire Suppression System	Pack-level & Cabinet-level detection + Aerosol
	Protection Level	IP55
	Anti-corrosion Level	C4M
	Communication Protocol	MODBUS-TCP/IP, MODBUS-RTU
	Max. Parallel Quantity	20
Certification	IEC 62619, IEC 63056, IEC 60730, IEC 62477, IEC 61000, UL 9540A, UN 38.3	

\*Specification indexes may be subject to changes without prior notice.



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