

JA SOLAR

Africa's No.1 Energy solutions

2025 PRODUCT CATALOGUE

JA Solar is a global leader in high performance photovoltaic products. Renowned for innovation and reliability, they empower sustainable energy solutions worldwide, transforming sunlight into clean power.

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www.jasolar.africa



africa@jasolar.com





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, energy storage, and PV power station development.

Listed on the Shenzhen Stock Exchange (002459), we serve customers in 178 countries, with over 280GW in global shipments as of Q1 2025.



Integration level exceeds 90%



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

With over 200GW+ supplied globally and representation on every continent, we're your trusted partner for solar energy solutions worldwide



Continental Footprint

From the Atlas Mountains to the Serengeti Plains, our Africa team tirelessly shapes top notch propositions for every corner of the continent



Africa Projects Highlights

Trusted by Industry Leaders

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 Power
 Mauritius / **10.98 MW** / MSDG Phase 2 / Ecoasis
 South Africa / **20 MW** / Boston Solar / Boston
 Nigeria / **2 MW** / Baze University / Rensource
 Algeria / **10 MW** / Sonelgaz / S2000 - ENGTP

GROWTH IN AFRICA



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
 Morocco / **220 MW** / Jesa project / JESA OCP

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JA SOLAR

Intelligence

Moving forward steadily and orderly

www.jasolar-africa

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jasolarafrica JA Solar, Africa's number 1 Solar module supplier. The home of clean Energy, driven by innovation and determination... more

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JA SOLAR

Happy Mother's Day

Thank you for giving us the world!

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jasolarafrica Happy Mother's Day to all the amazing moms out there—your love, care, and strength inspire us every day.

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Nasrec Expo Center, JHB

JA SOLAR

Africa's No.1 Solar Module Supplier

1 Day until the Show begins

The Solar & Storage Live and Future Energy Live 2025

Date: 25th - 27th March 2025

Location: NASREC, JOHANNESBURG EXPO CENTER

Booth: A58

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jasolarafrica JA Solar, Africa's number 1 solar module supplier, invites you to Solar & Storage Live Africa 2025... more

jasolarafrica and 2 others

Nasrec Expo Center, JHB

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jasolarafrica JA Solar Africa is excited to share that we've won the Top Brand PV Seals 2025 for Africa, South Africa, and Kenya, plus the Customer's... more

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JA SOLAR

JA-5kWh LV RESIDENTIAL ENERGY STORAGE BATTERY SPECIFICATION

Product Highlights

- Reliable Battery Design with longer life cycle
- All Round Safety Protection from LFP Cell to Battery pack
- Wall-mounted or stockable on the floor, less installation time
- Simple and Fast Installation
- Remote Monitoring Feature

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jasolarafrica JA Solar, Africa's number 1 solar module supplier, introduces the JA-5kWh LV Residential Energy Storage Battery – built for reliability and long... more

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JA SOLAR

Unleashing Solar Power

Anywhere, in Any Environment

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

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jasolarafrica On March 5th, JA Solar launched its All-Scenario Solutions. This new solar power technology works well anywhere in the world. It handles hot... more

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JA SOLAR

JA Solar Named 2025 Top Brand PV in Nine Global Markets

Africa, Kenya, South Africa, Australia, Latam, Mexico, Colombia, Brazil, Chile

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jasolarafrica JA Solar won nine Top Brand PV 2025 awards from EUPD Research for regions like Australia, Africa, and Latin America, including South... more

Thoughts?

JA SOLAR

@ja.solar.africa

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Empowering solar innovation since 2005

africa@jasolar.com

instagram.com/jasolarafrica

Email

TikTok Studio Business suite

jasolarafrica

JA SOLAR

2019

JA Solar began its journey

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jasolarafrica JA Solar recently turned 20. Celebrating two decades of reliable solar energy solutions... more

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JA SOLAR

CELEBRATING 20 YEARS

ECO Friendly Long Life All Weather

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jasolarafrica 20 years of powering the world with clean energy — we are because you are.

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JA SOLAR

SOLAR ENERGY IS AFRICA'S FUTURE

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jasolarafrica JA Solar, Africa's number one leading Energy solutions provider.

JA Solar Africa

@jasolarafrica

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JA Solar is Africa's No.1 Solar Module Supplier. Explore the latest in solar technology and innovations shaping Africa's future.

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JA Solar celebrating 20 Years of Solar Energy Solutions 23 views · 3 days ago

JA Solar Battery Installation Video 12 views · 2 weeks ago

JA Solar, Victor Musau talks about the latest Solar Technology during... 736 views · 2 weeks ago



JAM72D42 LB
650W
2465 x 1134 x 30
34.6kg
144(6x24)
496 pcs



JAM72D40 MB
605W
2278 x 1134 x 30
31.8
144(6x24)
720 pcs



JAM72D40 LB



JAM66D45 LB
635W
2382 x 1134 x 30
33.1kg
132(6x22)
720 pcs



JAM72D40 MB
605W
2278 x 1134 x 30
32.2kg
144(6x24)
720 pcs



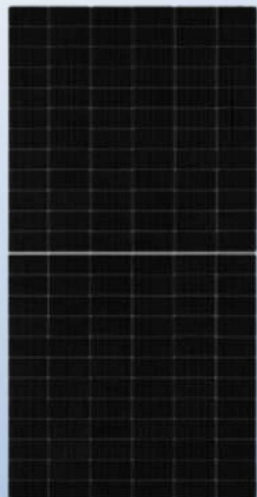
JAM72D40 LB
605W



JAM66D45 LB
615W
2333 x 1134 x 30
32.5kg
144(6x24)
720 pcs



JAM72D42 LB
650W
2465 x 1134 x 35
35.4kg
144(6x24)
496 pcs



JAM54D40 LB
465W

1762 x 1134 x 30

22kg

108(6x18)

936 pcs



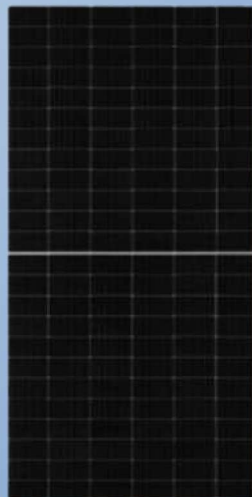
JAM60D40 LB
510W

1953 x 1134 x 30

27.3kg

120(6x20)

864 pcs



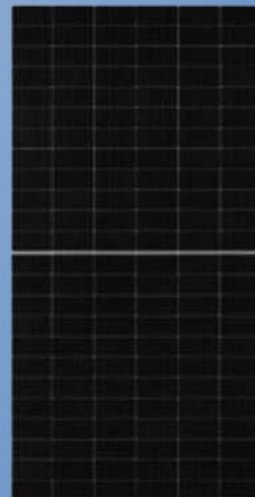
JAM66D42 MB
605W

2278 x 1134 x 30

31.8kg

132(6x22)

720 pcs



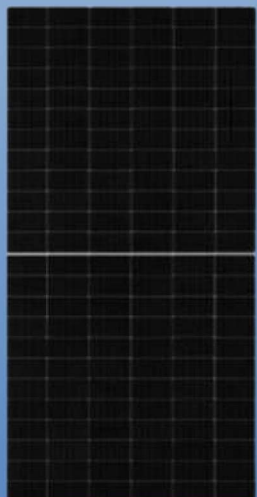
JAM72D40 MB
605W

2278 x 1134 x 30

31.8kg

144(6x24)

720 pcs



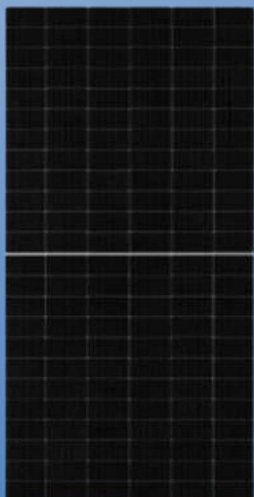
JAM72S40 MR
605W

2278 x 1134 x 30

27.3kg

144(6x24)

720 pcs



JAM72D40 LB
615W

2333 x 1134 x 30

32.5kg

144(6x24)

720 pcs



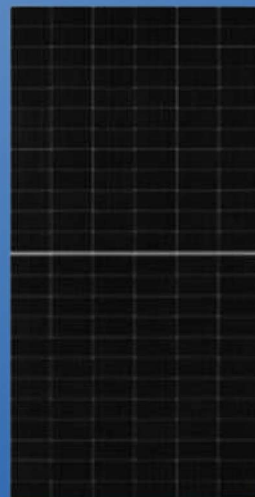
JAM66D45 LB
630W

2382 x 1134 x 30

33.1kg

132(6x22)

720 pcs



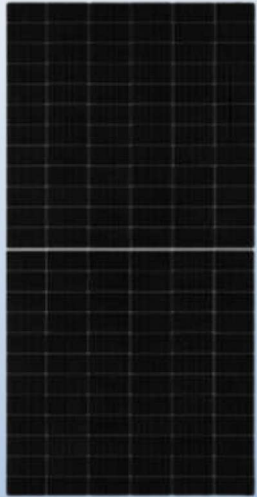
JAM72D42 LB
650W

2465 x 1134 x 30

22kg

144(6x24)

576 pcs



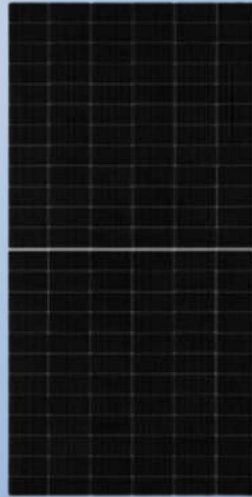
JAM54D41 LB
455W

1762 x 1134 x 30

32.5kg

108(6x18)

936 pcs



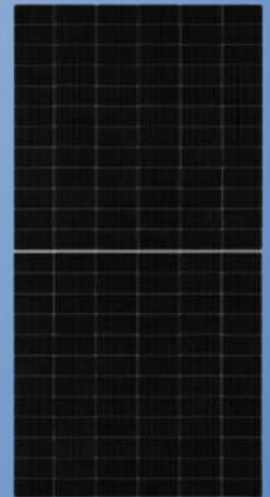
JAM60D41 LB
510W

1953 x 1134 x 30

27.3kg

120(6x20)

864 pcs



JAM72S41 LR
605W

2333 x 1134 x 30

28kg

144(6x24)

720 pcs

UTILITY ENERGY STORAGE SYSTEM

BlueGalaxy 5365 / 4659

LIQUID-COOLED ESS
4.6MWh, 0.5C



BluePlanet

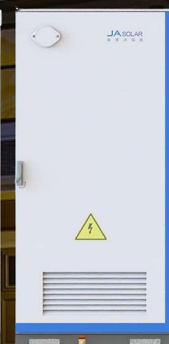
C&I ESS Small and Medium Scale C&I Steps of 232kWh

BlueStar

Residential ESS
Rooftop + ESS
Steps of 5.12kWh



**Switch
Cabinet**



**Battery
Cabinet**

Harvest the Sunshine

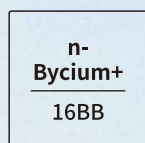
460W



JA SOLAR

JAM54D40 LB n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



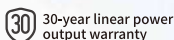
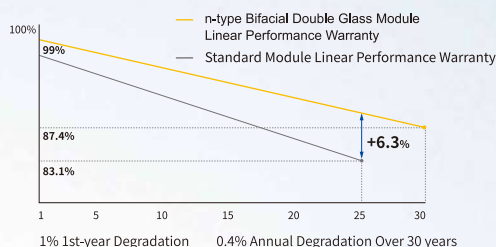
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



Comprehensive Certificates

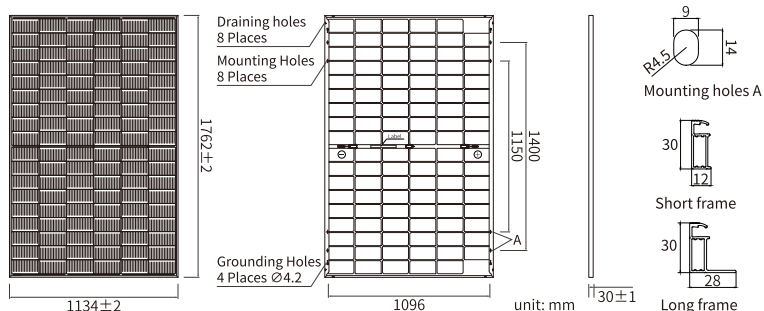
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM54D40 LB

n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	22kg
Dimensions	1762±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	108(6×18)
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	1.6mm/1.6mm
Packaging Configuration	36pcs/Pallet, 936pcs/40HQ Container

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

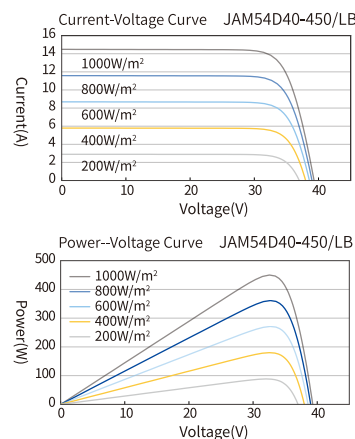
TYPE	JAM54D40 -435/LB	JAM54D40 -440/LB	JAM54D40 -445/LB	JAM54D40 -450/LB	JAM54D40 -455/LB	JAM54D40 -460/LB
Rated Maximum Power(P _{max}) [W]	435	440	445	450	455	460
Open Circuit Voltage (V _{oc}) [V]	38.70	38.90	39.10	39.30	39.50	39.70
Maximum Power Voltage(V _{mp}) [V]	32.29	32.47	32.65	32.82	33.00	33.17
Short Circuit Current(I _{sc}) [A]	14.23	14.31	14.40	14.48	14.56	14.64
Maximum Power Current(I _{mp}) [A]	13.47	13.55	13.63	13.71	13.79	13.87
Module Efficiency [%]	21.8	22.0	22.3	22.5	22.8	23.0
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					

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	JAM54D40 -435/LB	JAM54D40 -440/LB	JAM54D40 -445/LB	JAM54D40 -450/LB	JAM54D40 -455/LB	JAM54D40 -460/LB
Rated Max Power(P _{max}) [W]	470	475	481	486	491	497
Open Circuit Voltage(V _{oc}) [V]	38.70	38.90	39.10	39.30	39.50	39.70
Max Power Voltage(V _{mp}) [V]	32.29	32.47	32.65	32.82	32.99	33.17
Short Circuit Current(I _{sc}) [A]	15.36	15.46	15.55	15.64	15.73	15.81
Max Power Current(I _{mp}) [A]	14.55	14.63	14.72	14.81	14.89	14.98
Irradiation Ratio (rear/front)	10%					

CHARACTERISTICS



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/ft ²)
Maximum Static Load, Back	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 38/Class C

Harvest the Sunshine

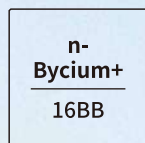
510W



JA SOLAR

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



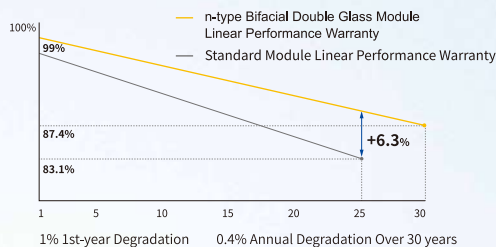
n-type with very Lower LID



Better Temperature Coefficient



Better low irradiance response



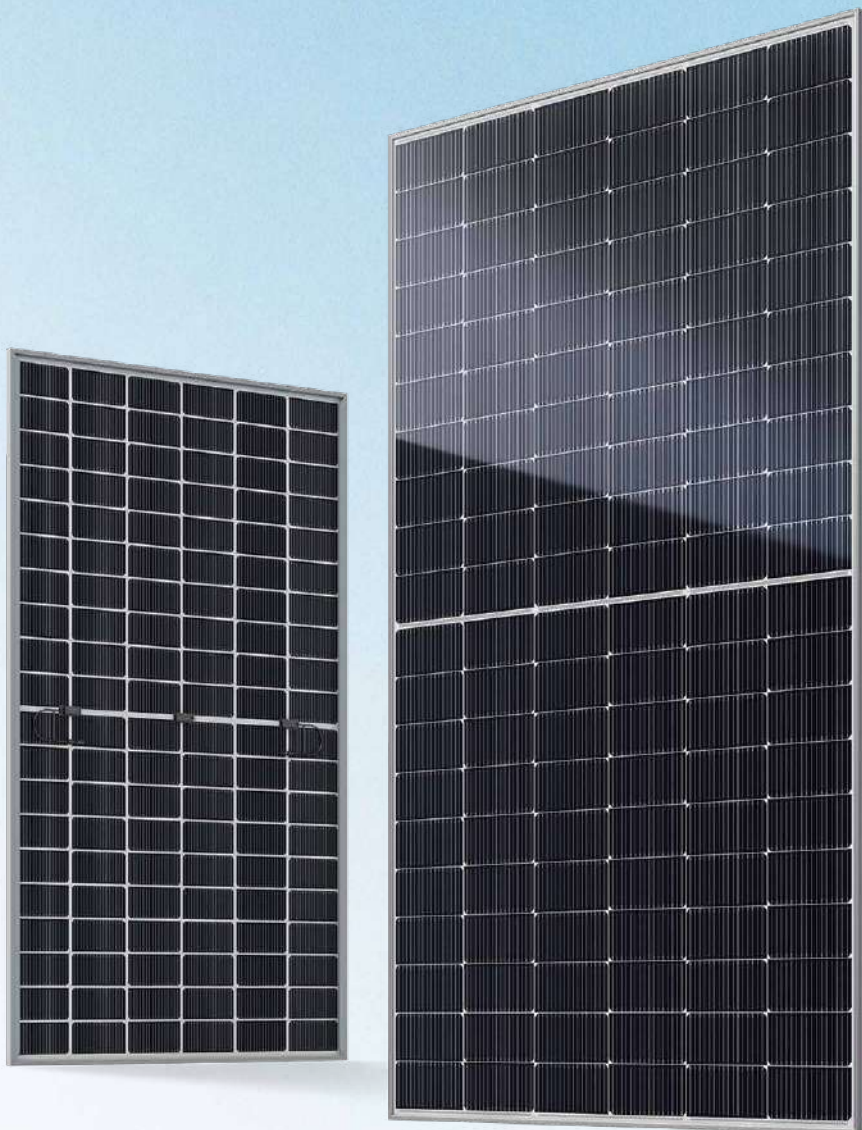
12-year product warranty



30-year linear power output warranty

Comprehensive Certificates

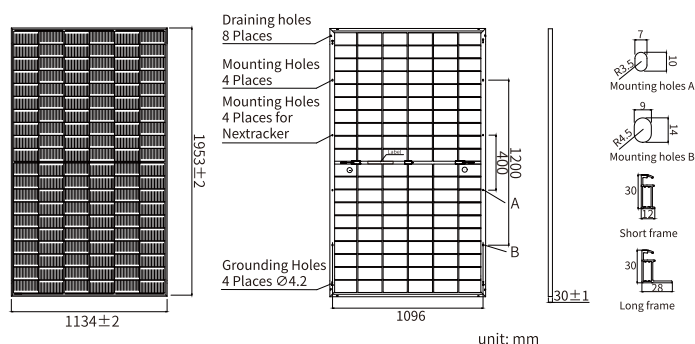
- IEC 61215, IEC 61730, UL 61215, UL 61730
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- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module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



DEEP BLUE 4.0 Pro

JAM60D40 LB

n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	27.3kg
Dimensions	1953±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (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

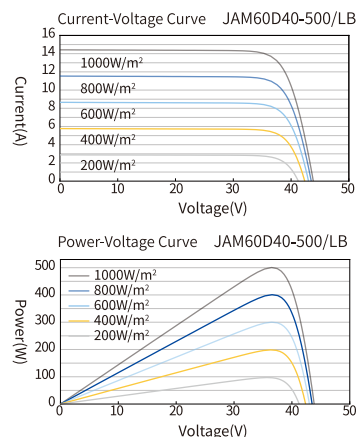
TYPE	JAM60D40 -485/LB	JAM60D40 -490/LB	JAM60D40 -495/LB	JAM60D40 -500/LB	JAM60D40 -505/LB	JAM60D40 -510/LB
Rated Maximum Power(P _{max}) [W]	485	490	495	500	505	510
Open Circuit Voltage (V _{oc}) [V]	43.25	43.45	43.65	43.85	44.05	44.25
Maximum Power Voltage(V _{mp}) [V]	36.28	36.49	36.70	36.91	37.11	37.31
Short Circuit Current(I _{sc}) [A]	14.24	14.30	14.36	14.42	14.48	14.54
Maximum Power Current(I _{mp}) [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 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					

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	JAM60D40 -485/LB	JAM60D40 -490/LB	JAM60D40 -495/LB	JAM60D40 -500/LB	JAM60D40 -505/LB	JAM60D40 -510/LB
Rated Max Power(P _{max}) [W]	524	529	535	540	545	551
Open Circuit Voltage(V _{oc}) [V]	43.25	43.45	43.65	43.85	44.05	44.25
Max Power Voltage(V _{mp}) [V]	36.28	36.49	36.70	36.91	37.11	37.31
Short Circuit Current(I _{sc}) [A]	15.38	15.44	15.51	15.57	15.64	15.70
Max Power Current(I _{mp}) [A]	14.44	14.50	14.57	14.63	14.70	14.76
Irradiation Ratio (rear/front)	10%					

CHARACTERISTICS



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/ft ²)
Maximum Static Load, Back	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

Harvest the Sunshine

605W

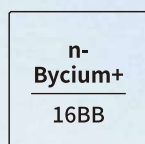


JA SOLAR

JAM66D42 MB

n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell Technology

26%



Cell Conversion Efficiency

Premium Modules



Higher power generation better LCOE



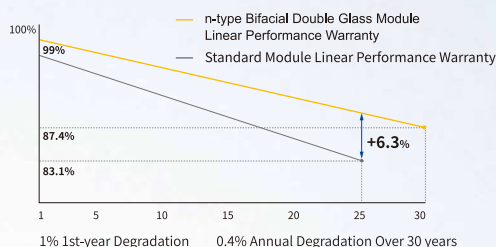
n-type with very Lower LID



Better Temperature Coefficient



Better low irradiance response



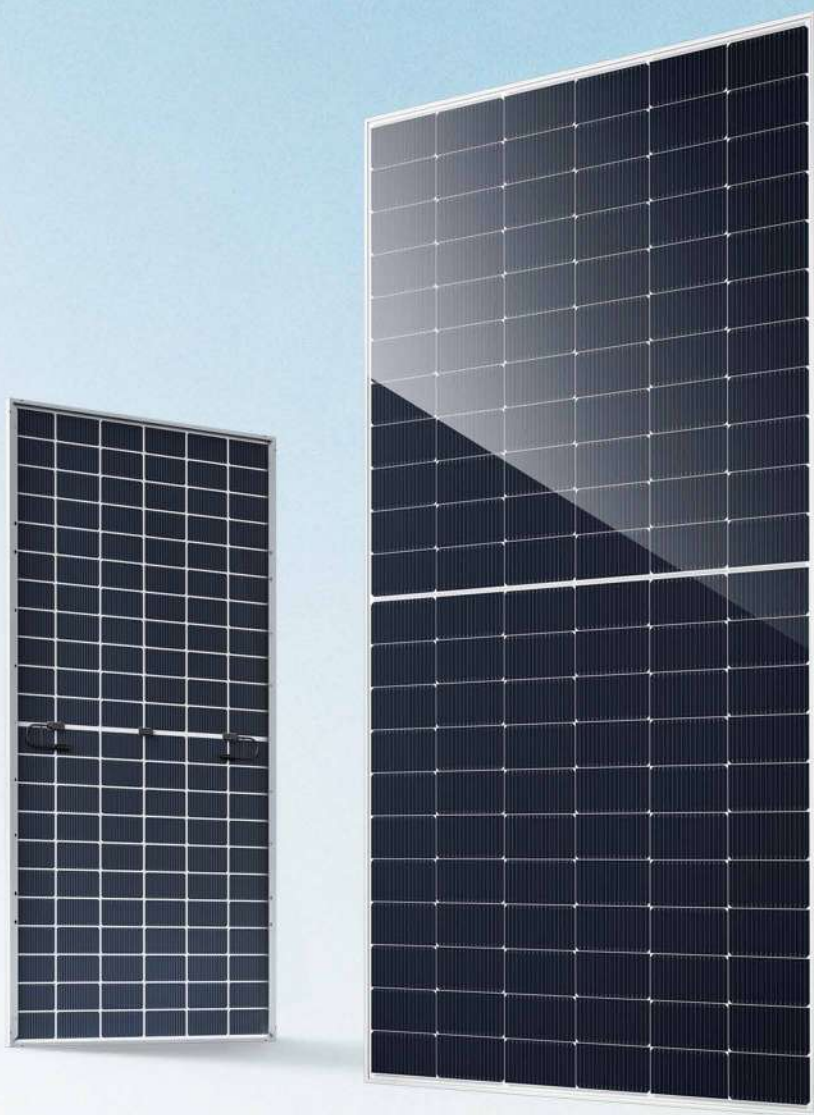
12-year product warranty



30-year linear power output warranty

Comprehensive Certificates

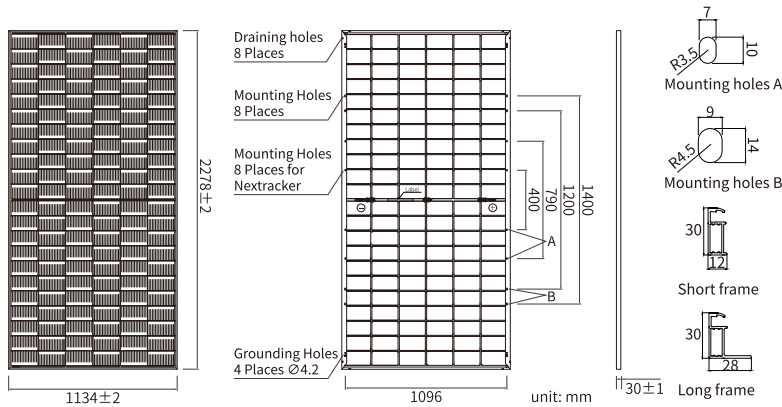
- IEC 61215, IEC 61730, UL 61215, UL 61730
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- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module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



DEEP BLUE 4.0 Pro

JAM66D42 MB

n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	31.8kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (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: 300mm(+)/400mm(-) Landscape: 1300mm(+)/1300mm(-)
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	JAM66D42 -580/MB	JAM66D42 -585/MB	JAM66D42 -590/MB	JAM66D42 -595/MB	JAM66D42 -600/MB	JAM66D42 -605/MB
Rated Maximum Power(P _{max}) [W]	580	585	590	595	600	605
Open Circuit Voltage (V _{oc}) [V]	48.18	48.38	48.58	48.78	48.98	49.19
Maximum Power Voltage(V _{mp}) [V]	40.42	40.63	40.84	41.03	41.24	41.44
Short Circuit Current(I _{sc}) [A]	15.21	15.26	15.31	15.36	15.41	15.46
Maximum Power Current(I _{mp}) [A]	14.35	14.40	14.45	14.50	14.55	14.60
Module Efficiency [%]	22.5	22.6	22.8	23.0	23.2	23.4
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					

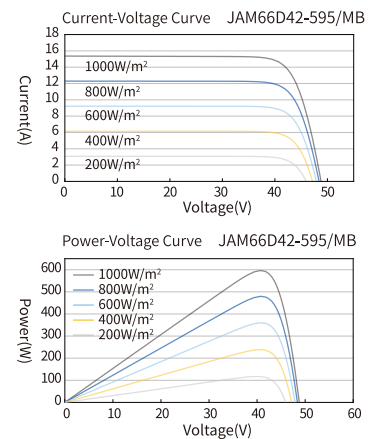
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM66D42 -580/MB	JAM66D42 -585/MB	JAM66D42 -590/MB	JAM66D42 -595/MB	JAM66D42 -600/MB	JAM66D42 -605/MB
Rated Max Power(P _{max}) [W]	626	632	637	643	648	653
Open Circuit Voltage(V _{oc}) [V]	48.18	48.38	48.58	48.78	48.98	49.19
Max Power Voltage(V _{mp}) [V]	40.42	40.63	40.84	41.03	41.24	41.44
Short Circuit Current(I _{sc}) [A]	16.43	16.48	16.53	16.59	16.64	16.70
Max Power Current(I _{mp}) [A]	15.50	15.55	15.61	15.66	15.71	15.77
Irradiation Ratio (rear/front)	10%					

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

CHARACTERISTICS



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/ft ²)
Maximum Static Load, Back*	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Bifaciality	80%±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 9999
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-20250417A

Harvest the Sunshine

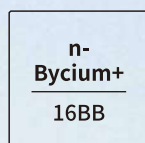
605W



JA SOLAR

JAM72D40 MB n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



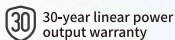
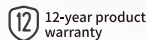
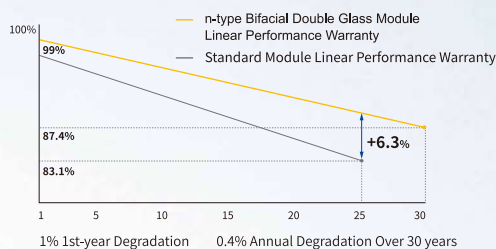
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



Comprehensive Certificates

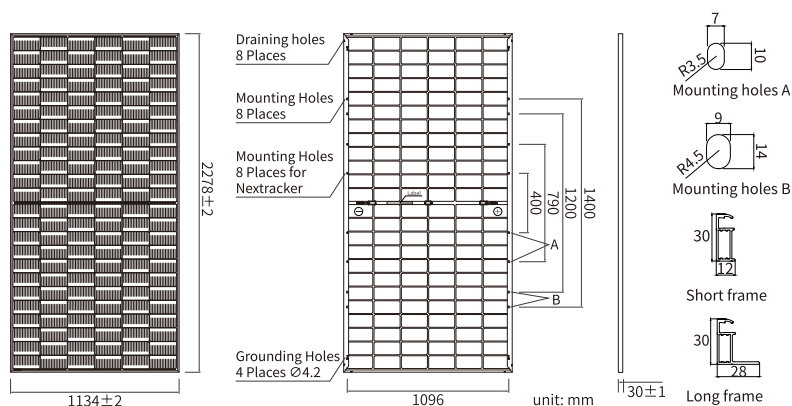
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM72D40 MB

n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	31.8kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1300mm(+)/1300mm(-)
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	JAM72D40 -580/MB	JAM72D40 -585/MB	JAM72D40 -590/MB	JAM72D40 -595/MB	JAM72D40 -600/MB	JAM72D40 -605/MB
Rated Maximum Power(P _{max}) [W]	580	585	590	595	600	605
Open Circuit Voltage (V _{oc}) [V]	51.95	52.16	52.37	52.58	52.79	53.00
Maximum Power Voltage(V _{mp}) [V]	44.02	44.22	44.43	44.64	44.85	45.05
Short Circuit Current(I _{sc}) [A]	13.84	13.89	13.94	13.99	14.04	14.09
Maximum Power Current(I _{mp}) [A]	13.17	13.23	13.28	13.33	13.38	13.43
Module Efficiency [%]	22.5	22.6	22.8	23.0	23.2	23.4
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					

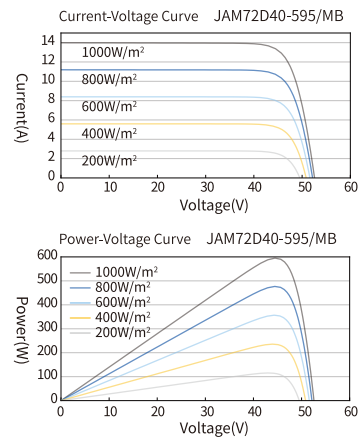
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM72D40 -580/MB	JAM72D40 -585/MB	JAM72D40 -590/MB	JAM72D40 -595/MB	JAM72D40 -600/MB	JAM72D40 -605/MB
Rated Max Power(P _{max}) [W]	626	632	637	643	648	653
Open Circuit Voltage(V _{oc}) [V]	51.95	52.16	52.37	52.58	52.79	53.00
Max Power Voltage(V _{mp}) [V]	44.02	44.22	44.43	44.64	44.85	45.05
Short Circuit Current(I _{sc}) [A]	14.95	15.00	15.06	15.11	15.16	15.22
Max Power Current(I _{mp}) [A]	14.23	14.29	14.34	14.40	14.45	14.50
Irradiation Ratio (rear/front)	10%					

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

CHARACTERISTICS



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/ft ²)
Maximum Static Load, Back*	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C



Headquarters

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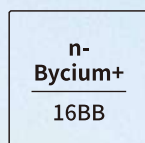
605W



JA SOLAR

JAM72S40 MR n-type Monofacial Modules

Premium Cells



MBB Half-Cell
Technology

26%
Up To

Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



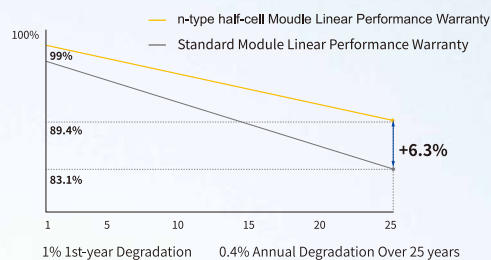
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response

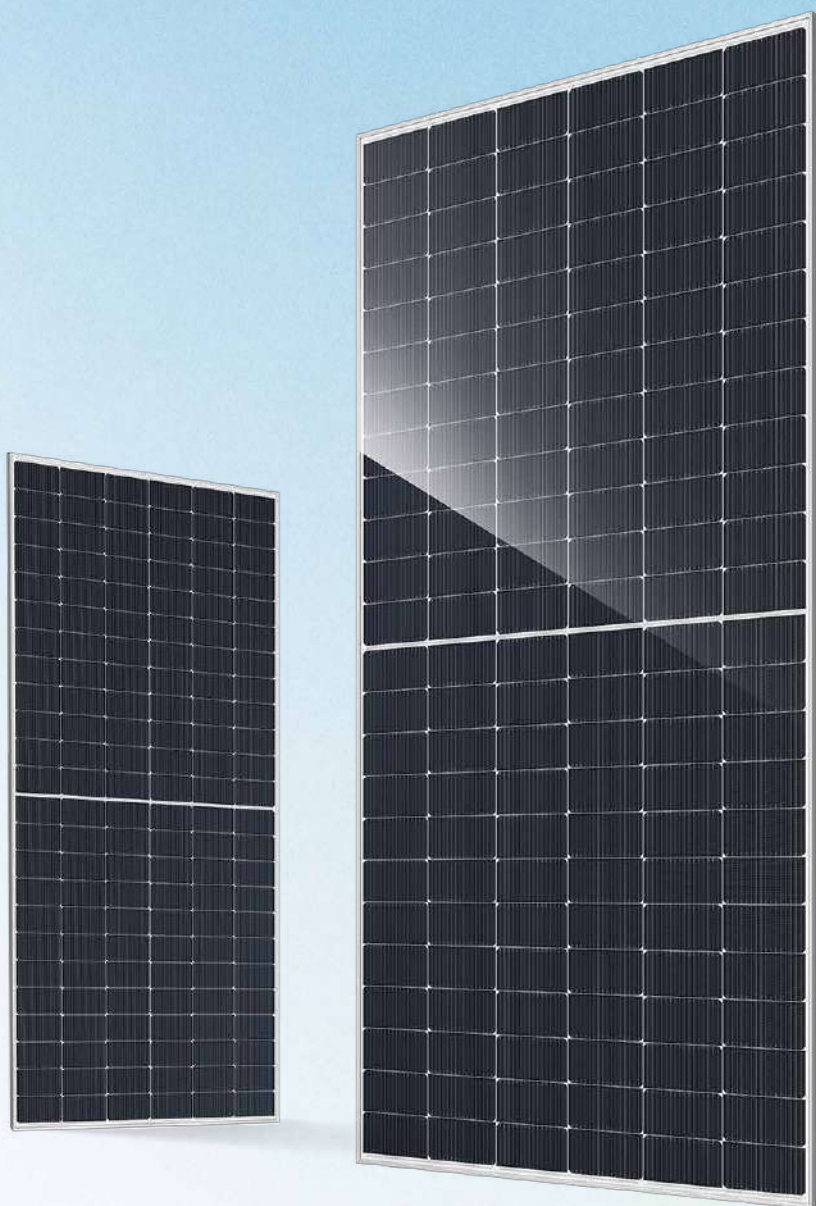


12-year product
warranty

25-year linear power
output warranty

Comprehensive Certificates

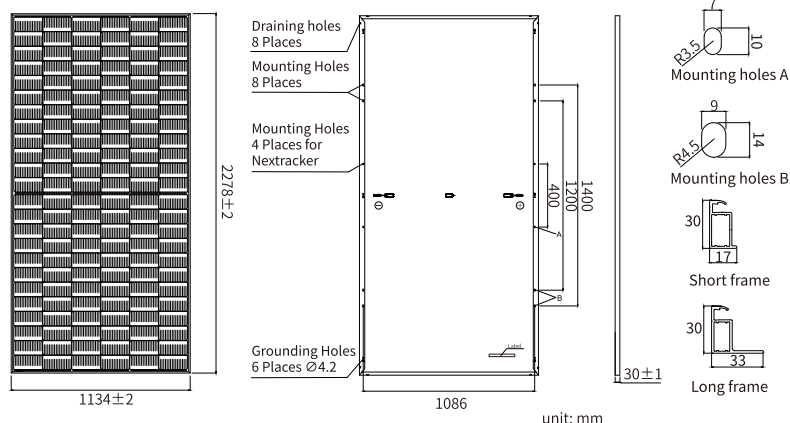
- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM72S40 MR

n-type Monofacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	27.3kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	QC4.10-351/MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1300mm(+)/1300mm(-)
Front Glass	3.2mm
Packaging Configuration	36pcs/Pallet, 720pcs/40ft Container

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

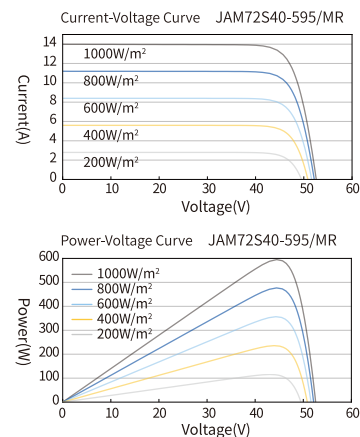
TYPE	JAM72S40 -580/MR	JAM72S40 -585/MR	JAM72S40 -590/MR	JAM72S40 -595/MR	JAM72S40 -600/MR	JAM72S40 -605/MR
Rated Maximum Power(P _{max}) [W]	580	585	590	595	600	605
Open Circuit Voltage (V _{oc}) [V]	51.95	52.16	52.37	52.58	52.79	53.00
Maximum Power Voltage(V _{mp}) [V]	44.02	44.22	44.43	44.64	44.85	45.05
Short Circuit Current(I _{sc}) [A]	13.84	13.89	13.94	13.99	14.04	14.09
Maximum Power Current(I _{mp}) [A]	13.17	13.23	13.28	13.33	13.38	13.43
Module Efficiency [%]	22.5	22.6	22.8	23.0	23.2	23.4
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					

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 NOCT

TYPE	JAM72S40 -580/MR	JAM72S40 -585/MR	JAM72S40 -590/MR	JAM72S40 -595/MR	JAM72S40 -600/MR	JAM72S40 -605/MR
Rated Max Power(P _{max}) [W]	439	443	447	450	454	458
Open Circuit Voltage(V _{oc}) [V]	49.35	49.55	49.75	49.95	50.15	50.35
Max Power Voltage(V _{mp}) [V]	41.66	41.85	42.04	42.24	42.43	42.64
Short Circuit Current(I _{sc}) [A]	11.07	11.11	11.15	11.19	11.23	11.27
Max Power Current(I _{mp}) [A]	10.54	10.58	10.62	10.66	10.70	10.75
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G					

CHARACTERISTICS



OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Maximum Static Load, Front	5400Pa(112 lb/ft ²)
Maximum Static Load, Back	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Safety Class	Class II
Fire Performance	UL Type 1/Class C

Harvest the Sunshine

JA SOLAR

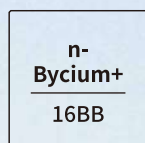
615W



JAM72D40 LB

n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell Technology

26%



Cell Conversion Efficiency

Premium Modules



Higher power generation better LCOE



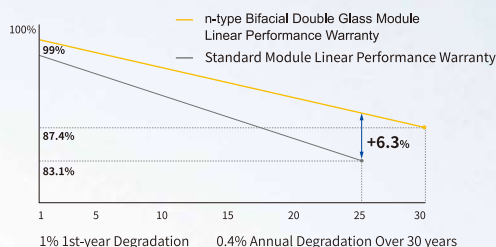
n-type with very Lower LID



Better Temperature Coefficient



Better low irradiance response



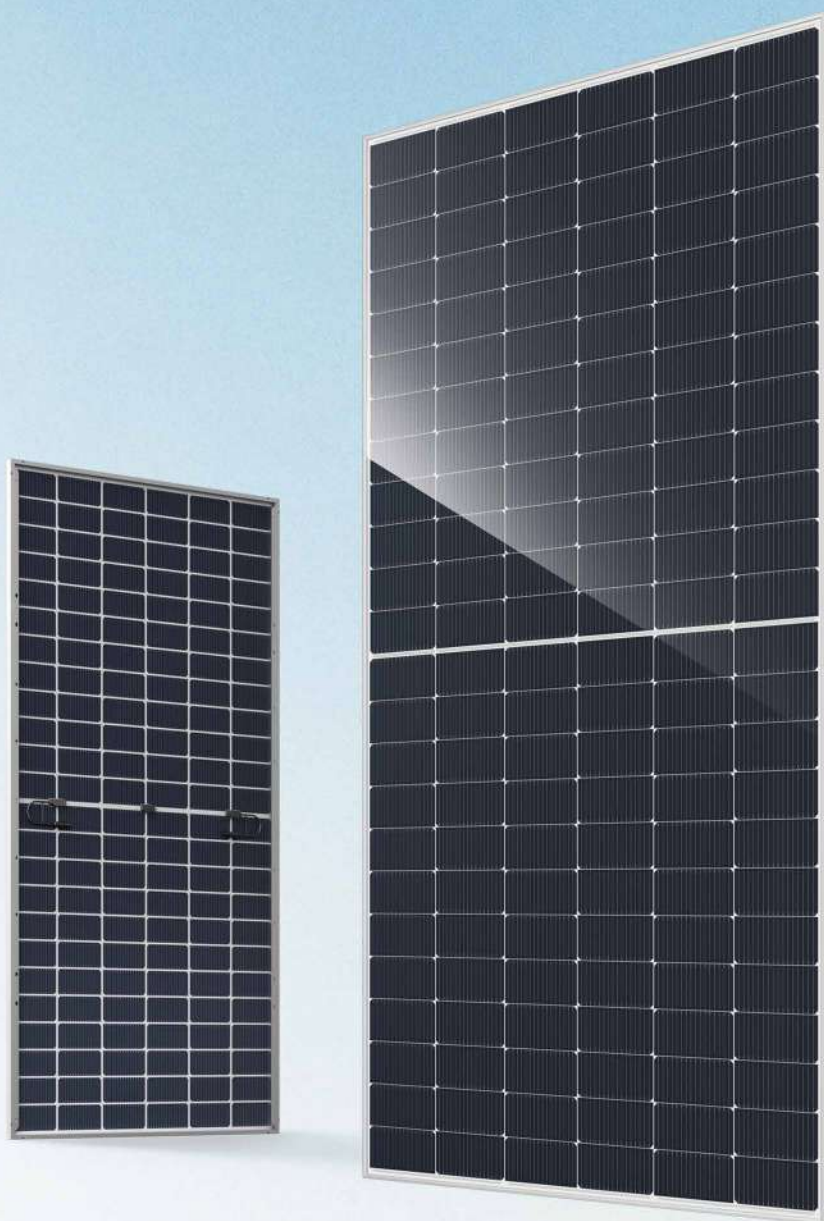
12-year product warranty



30-year linear power output warranty

Comprehensive Certificates

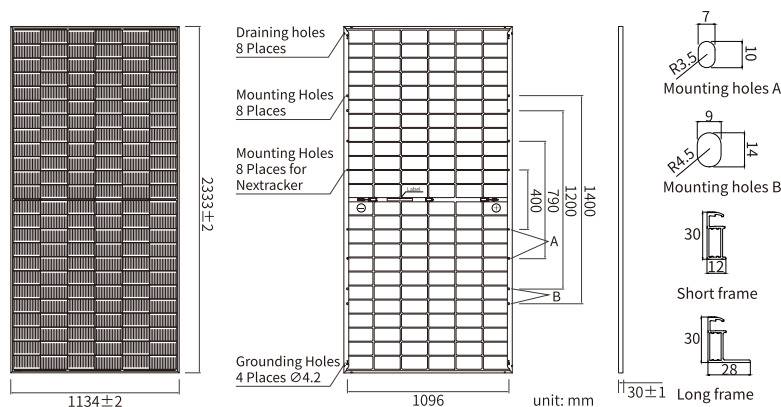
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM72D40 LB

n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	32.5kg
Dimensions	2333±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) 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	JAM72D40 -590/LB	JAM72D40 -595/LB	JAM72D40 -600/LB	JAM72D40 -605/LB	JAM72D40 -610/LB	JAM72D40 -615/LB
Rated Maximum Power(P _{max}) [W]	590	595	600	605	610	615
Open Circuit Voltage (V _{oc}) [V]	52.00	52.20	52.40	52.60	52.80	53.00
Maximum Power Voltage(V _{mp}) [V]	43.41	43.59	43.76	43.94	44.11	44.28
Short Circuit Current(I _{sc}) [A]	14.35	14.42	14.48	14.53	14.57	14.61
Maximum Power Current(I _{mp}) [A]	13.59	13.65	13.71	13.77	13.83	13.89
Module Efficiency [%]	22.3	22.5	22.7	22.9	23.1	23.2
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					

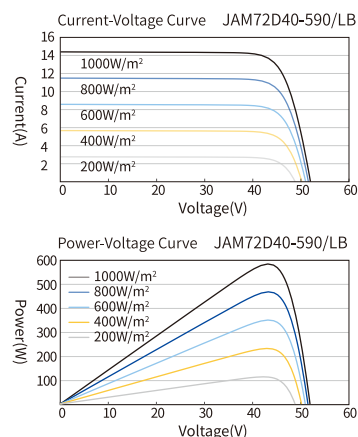
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM72D40 -590/LB	JAM72D40 -595/LB	JAM72D40 -600/LB	JAM72D40 -605/LB	JAM72D40 -610/LB	JAM72D40 -615/LB
Rated Max Power(P _{max}) [W]	637	643	648	653	659	664
Open Circuit Voltage(V _{oc}) [V]	52.00	52.20	52.40	52.60	52.80	53.00
Max Power Voltage(V _{mp}) [V]	43.41	43.59	43.76	43.94	44.11	44.28
Short Circuit Current(I _{sc}) [A]	15.50	15.57	15.64	15.69	15.74	15.78
Max Power Current(I _{mp}) [A]	14.68	14.74	14.81	14.87	14.94	15.00
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	30A
Maximum Static Load, Front*	5400Pa(112 lb/ft ²)
Maximum Static Load, Back*	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

Harvest the Sunshine

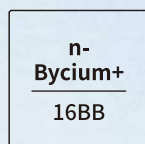
630W



JA SOLAR

JAM66D45 LB n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell Technology

26%



Cell Conversion Efficiency

Premium Modules



Higher power generation better LCOE



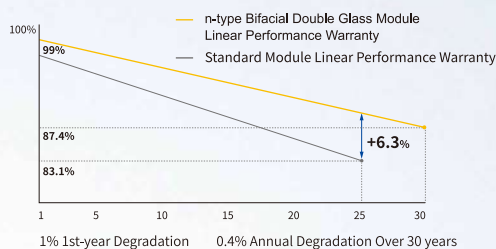
n-type with very Lower LID



Better Temperature Coefficient



Better low irradiance response



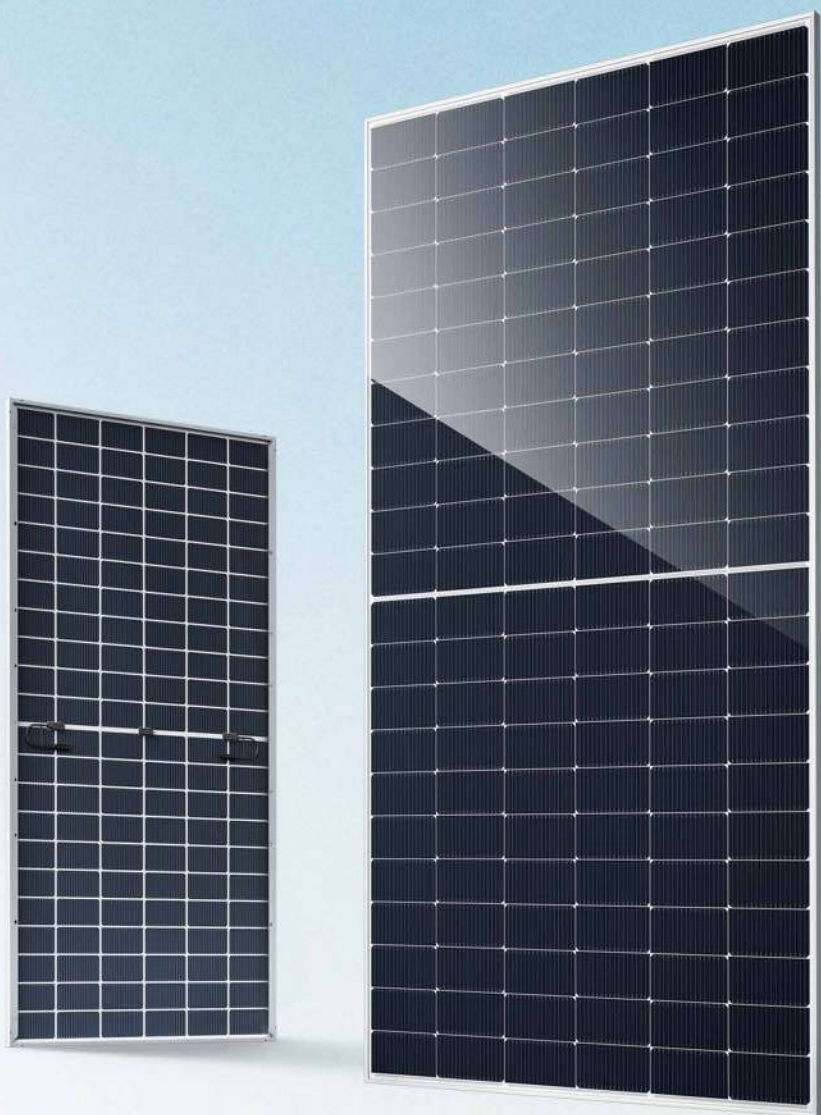
12-year product warranty



30-year linear power output warranty

Comprehensive Certificates

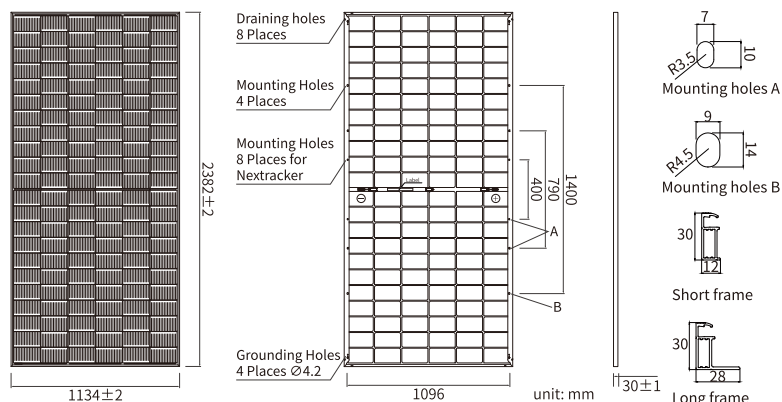
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

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	4mm²(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: 300mm(+)/400mm(-) Landscape: 1500mm(+)/1500mm(-)
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(P _{max}) [W]	605	610	615	620	625	630
Open Circuit Voltage (V _{oc}) [V]	47.90	48.10	48.30	48.50	48.70	48.90
Maximum Power Voltage(V _{mp}) [V]	39.60	39.77	39.96	40.21	40.45	40.70
Short Circuit Current(I _{sc}) [A]	16.00	16.05	16.10	16.13	16.15	16.18
Maximum Power Current(I _{mp}) [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 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					

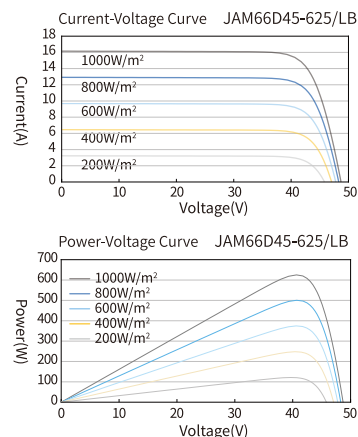
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

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(P _{max}) [W]	653	659	664	670	675	680
Open Circuit Voltage(V _{oc}) [V]	47.90	48.10	48.30	48.50	48.70	48.90
Max Power Voltage(V _{mp}) [V]	39.60	39.77	39.96	40.21	40.45	40.70
Short Circuit Current(I _{sc}) [A]	17.28	17.33	17.39	17.42	17.44	17.47
Max Power Current(I _{mp}) [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/ft²)
Maximum Static Load, Back*	2400Pa(50 lb/ft²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C



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E-mail: sales@jasolar.com marketing@jasolar.com www.jasolar.com

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Version No. : Global-EN-20250417A

Harvest the Sunshine

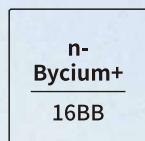
650W



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



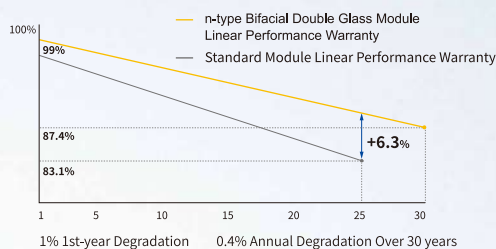
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



12-year product
warranty



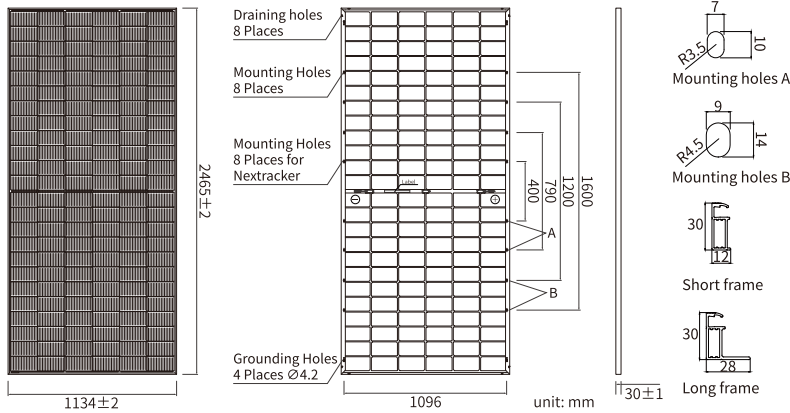
30-year linear power
output warranty

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



MECHANICAL PARAMETERS

Cell	Mono
Weight	34.6kg
Dimensions	2465±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1500mm(+)/1500mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 576pcs/40HQ Container

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D42 -625/LB	JAM72D42 -630/LB	JAM72D42 -635/LB	JAM72D42 -640/LB	JAM72D42 -645/LB	JAM72D42 -650/LB
Rated Maximum Power(P _{max}) [W]	625	630	635	640	645	650
Open Circuit Voltage (V _{oc}) [V]	52.27	52.47	52.67	52.87	53.07	53.27
Maximum Power Voltage(V _{mp}) [V]	43.71	43.90	44.10	44.29	44.49	44.67
Short Circuit Current(I _{sc}) [A]	15.16	15.21	15.26	15.31	15.36	15.41
Maximum Power Current(I _{mp}) [A]	14.30	14.35	14.40	14.45	14.50	14.55
Module Efficiency [%]	22.4	22.5	22.7	22.9	23.1	23.3
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					

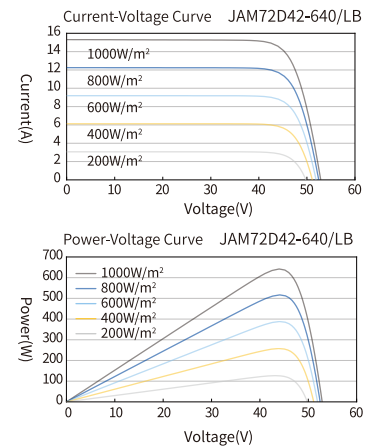
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM72D42 -625/LB	JAM72D42 -630/LB	JAM72D42 -635/LB	JAM72D42 -640/LB	JAM72D42 -645/LB	JAM72D42 -650/LB
Rated Max Power(P _{max}) [W]	675	680	686	691	697	702
Open Circuit Voltage(V _{oc}) [V]	52.27	52.47	52.67	52.87	53.07	53.27
Max Power Voltage(V _{mp}) [V]	43.71	43.90	44.10	44.29	44.49	44.67
Short Circuit Current(I _{sc}) [A]	16.37	16.43	16.48	16.53	16.59	16.64
Max Power Current(I _{mp}) [A]	15.44	15.50	15.55	15.61	15.66	15.71
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	30A
Maximum Static Load, Front*	5400Pa(112 lb/ft ²)
Maximum Static Load, Back*	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

Harvest the Sunshine

455W



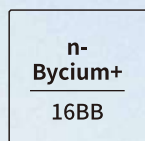
JA SOLAR

JAM54D41 LB

Black Modules

n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



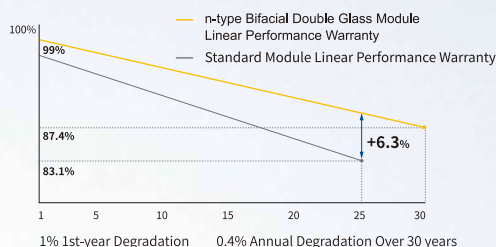
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



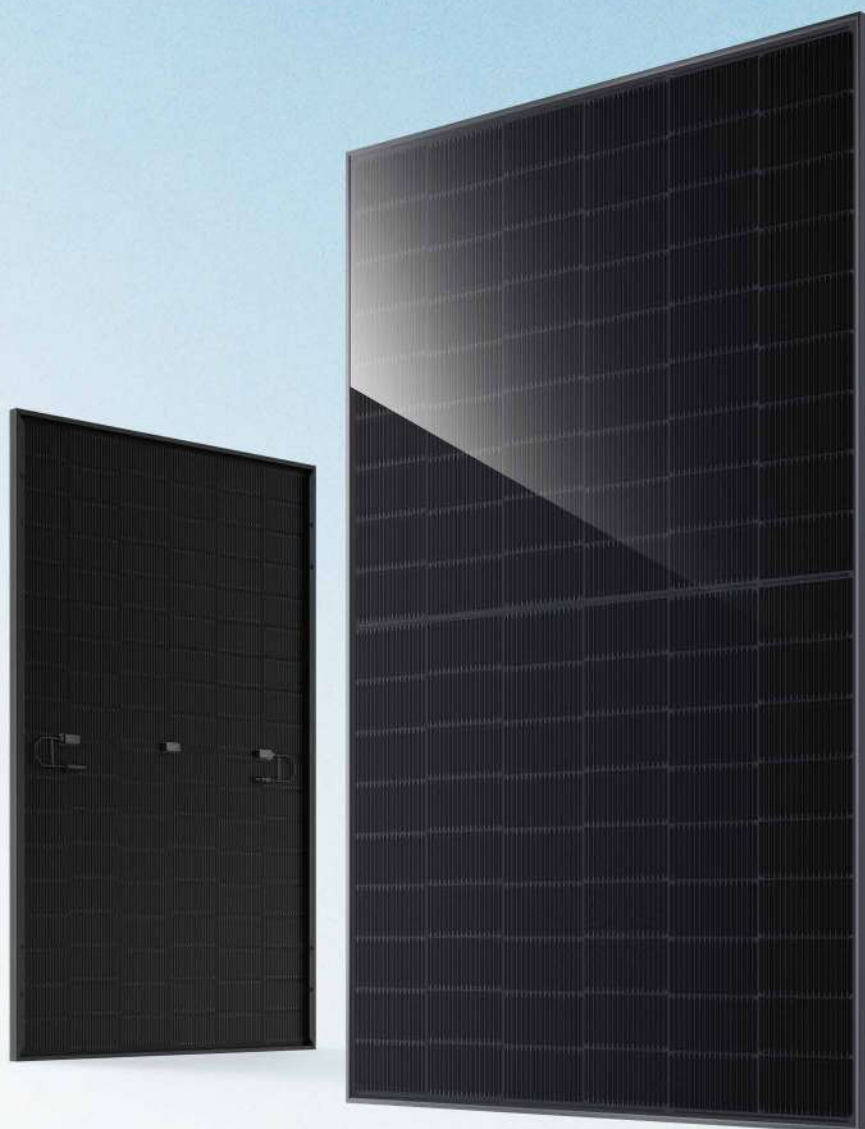
25-year product
warranty



30-year linear power
output warranty

Comprehensive Certificates

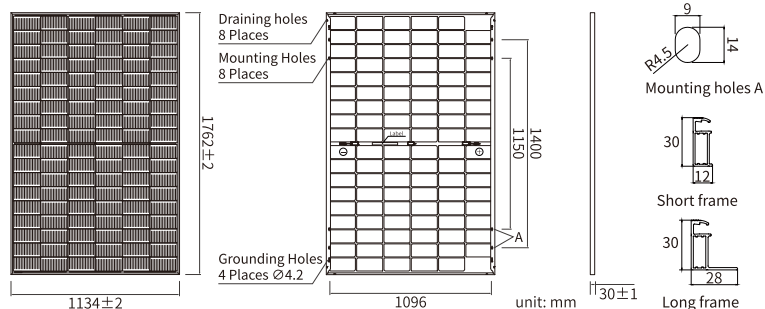
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM54D41 LB

n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	22kg
Dimensions	1762±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	108(6×18)
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	1.6mm/1.6mm
Packaging Configuration	36pcs/Pallet, 936pcs/40HQ Container

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

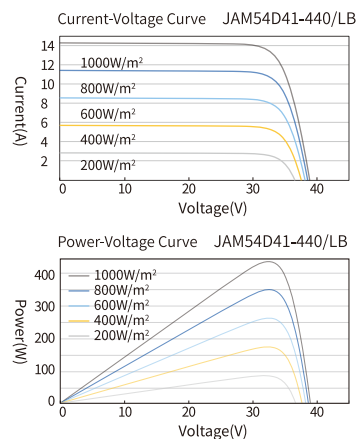
TYPE	JAM54D41 -430/LB	JAM54D41 -435/LB	JAM54D41 -440/LB	JAM54D41 -445/LB	JAM54D41 -450/LB	JAM54D41 -455/LB
Rated Maximum Power(P _{max}) [W]	430	435	440	445	450	455
Open Circuit Voltage (V _{oc}) [V]	38.50	38.70	38.90	39.10	40.30	40.50
Maximum Power Voltage(V _{mp}) [V]	32.12	32.29	32.47	32.65	32.99	33.33
Short Circuit Current(I _{sc}) [A]	14.14	14.23	14.31	14.40	14.41	14.42
Maximum Power Current(I _{mp}) [A]	13.39	13.47	13.55	13.63	13.64	13.65
Module Efficiency [%]	21.5	21.8	22.0	22.3	22.5	22.8
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					

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	JAM54D41 -430/LB	JAM54D41 -435/LB	JAM54D41 -440/LB	JAM54D41 -445/LB	JAM54D41 -450/LB	JAM54D41 -455/LB
Rated Max Power(P _{max}) [W]	464	470	475	481	486	491
Open Circuit Voltage(V _{oc}) [V]	38.50	38.70	38.90	39.10	40.30	40.50
Max Power Voltage(V _{mp}) [V]	32.11	32.29	32.47	32.65	32.99	33.33
Short Circuit Current(I _{sc}) [A]	15.27	15.36	15.46	15.55	15.56	15.57
Max Power Current(I _{mp}) [A]	14.46	14.55	14.63	14.72	14.73	14.74
Irradiation Ratio (rear/front)	10%					

CHARACTERISTICS



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/ft ²)
Maximum Static Load, Back	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Bifaciality	80%±10%
Safety Class	Class II
Fire Performance	UL Type 38/Class C

Harvest the Sunshine

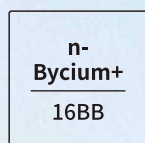
510W



JA SOLAR

JAM60D41 LB Black Module n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



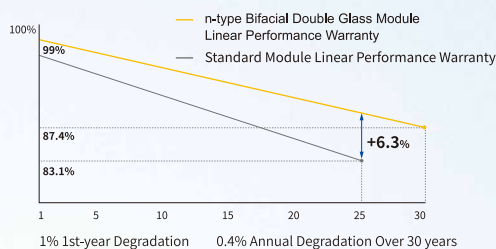
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



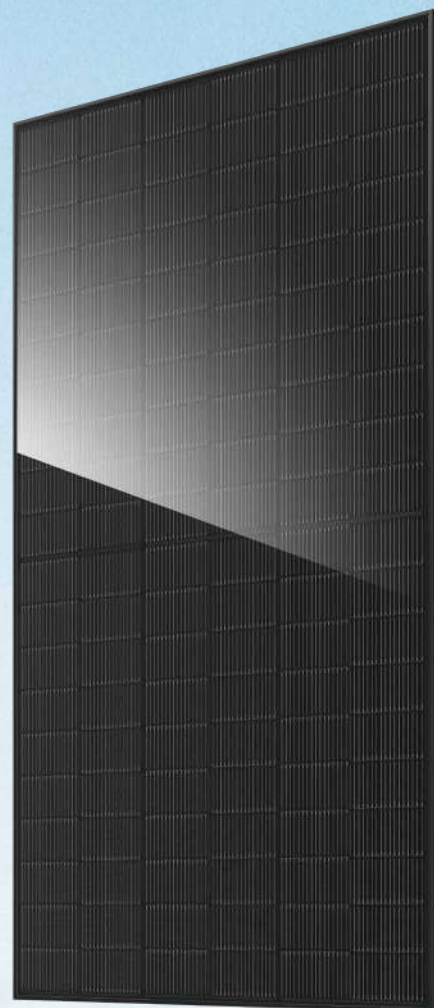
12-year product
warranty



30-year linear power
output warranty

Comprehensive Certificates

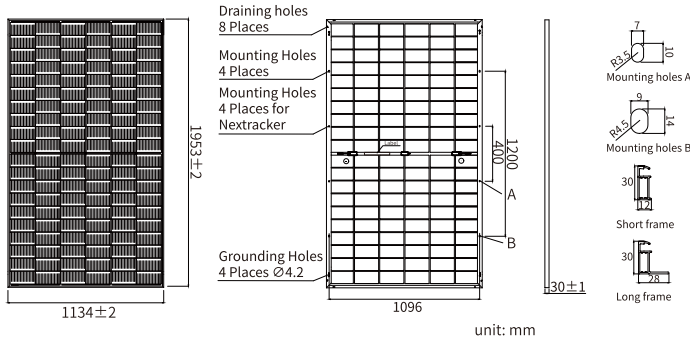
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM60D41 LB

n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	27.3kg
Dimensions	1953±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (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

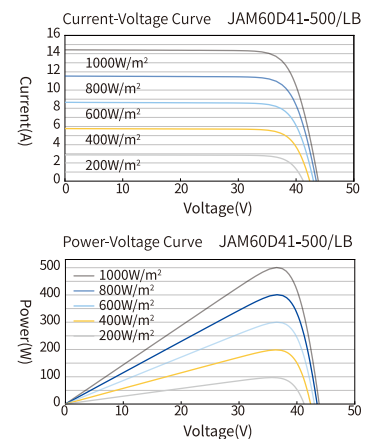
TYPE	JAM60D41 -485/LB	JAM60D41 -490/LB	JAM60D41 -495/LB	JAM60D41 -500/LB	JAM60D41 -505/LB	JAM60D41 -510/LB
Rated Maximum Power(P _{max}) [W]	485	490	495	500	505	510
Open Circuit Voltage (V _{oc}) [V]	43.25	43.45	43.65	43.85	44.05	44.25
Maximum Power Voltage(V _{mp}) [V]	36.28	36.49	36.70	36.91	37.11	37.31
Short Circuit Current(I _{sc}) [A]	14.24	14.30	14.36	14.42	14.48	14.54
Maximum Power Current(I _{mp}) [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 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					

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	JAM60D41 -485/LB	JAM60D41 -490/LB	JAM60D41 -495/LB	JAM60D41 -500/LB	JAM60D41 -505/LB	JAM60D41 -510/LB
Rated Max Power(P _{max}) [W]	524	529	535	540	545	551
Open Circuit Voltage(V _{oc}) [V]	43.25	43.45	43.65	43.85	44.05	44.25
Max Power Voltage(V _{mp}) [V]	36.28	36.49	36.70	36.91	37.11	37.31
Short Circuit Current(I _{sc}) [A]	15.38	15.44	15.51	15.57	15.64	15.70
Max Power Current(I _{mp}) [A]	14.44	14.50	14.57	14.63	14.70	14.76
Irradiation Ratio (rear/front)	10%					

CHARACTERISTICS



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/ft ²)
Maximum Static Load, Back	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Bifaciality	80%±10%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

Harvest the Sunshine

605W

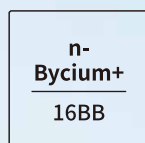


JA SOLAR

JAM72S41 LR

Black Module
n-type Monofacial Modules

Premium Cells



MBB Half-Cell
Technology

26%
Up To

Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



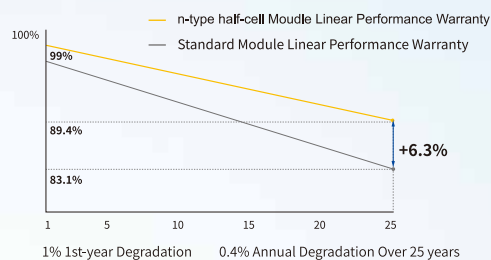
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



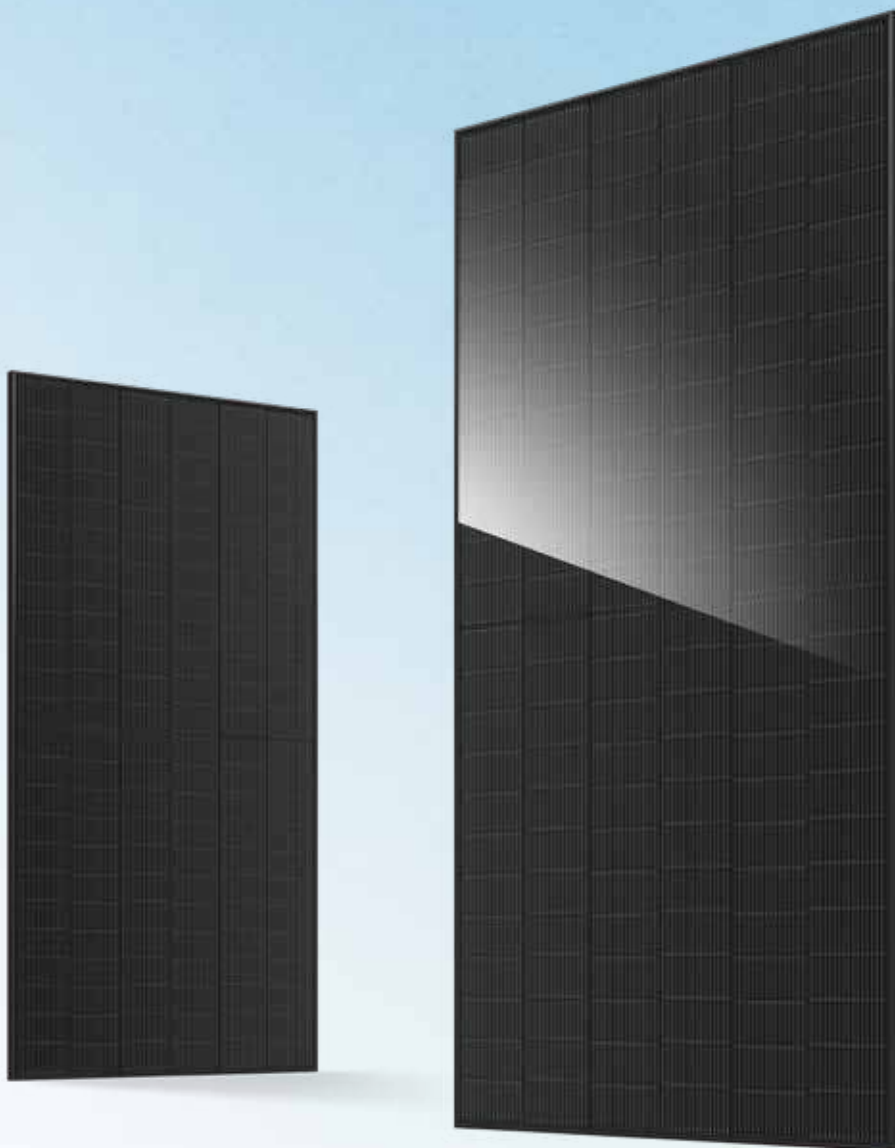
12-year product
warranty



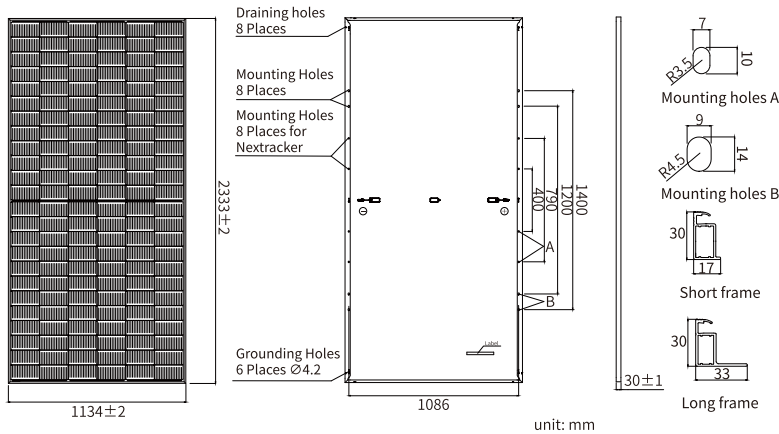
25-year linear power
output warranty

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



MECHANICAL PARAMETERS

Cell	Mono
Weight	28kg
Dimensions	2333±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	QC4.10-351/MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1400mm(+)/1400mm(-)
Front Glass	3.2mm
Packaging Configuration	36pcs/Pallet, 720pcs/40ft Container

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

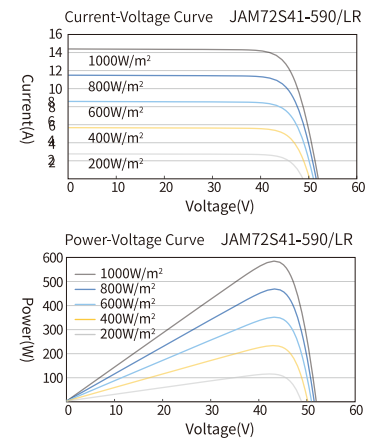
TYPE	JAM72S41 -580/LR	JAM72S41 -585/LR	JAM72S41 -590/LR	JAM72S41 -595/LR	JAM72S41 -600/LR	JAM72S41 -605/LR
Rated Maximum Power(P _{max}) [W]	580	585	590	595	600	605
Open Circuit Voltage (V _{oc}) [V]	51.60	51.80	52.00	52.20	52.40	52.60
Maximum Power Voltage(V _{mp}) [V]	43.06	43.24	43.41	43.59	43.76	43.94
Short Circuit Current(I _{sc}) [A]	14.23	14.29	14.35	14.42	14.48	14.53
Maximum Power Current(I _{mp}) [A]	13.47	13.53	13.59	13.65	13.71	13.77
Module Efficiency [%]	21.9	22.1	22.3	22.5	22.7	22.9
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					

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 NOCT

TYPE	JAM72S41 -580/LR	JAM72S41 -585/LR	JAM72S41 -590/LR	JAM72S41 -595/LR	JAM72S41 -600/LR	JAM72S41 -605/LR
Rated Max Power(P _{max}) [W]	439	443	447	450	454	458
Open Circuit Voltage(V _{oc}) [V]	48.83	49.02	49.21	49.39	49.58	49.77
Max Power Voltage(V _{mp}) [V]	40.74	40.91	41.08	41.25	41.41	41.57
Short Circuit Current(I _{sc}) [A]	11.38	11.43	11.48	11.53	11.58	11.62
Max Power Current(I _{mp}) [A]	10.78	10.82	10.87	10.92	10.97	11.02
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G					

CHARACTERISTICS



OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Maximum Static Load, Front	5400Pa(112 lb/ft ²)
Maximum Static Load, Back	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Safety Class	Class II
Fire Performance	UL Type I/Class C

Harvest the Sunshine

605W

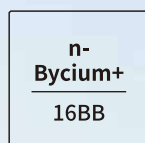


JA SOLAR

JAM72D40 MB

n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



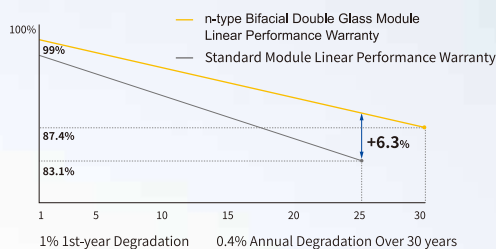
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



12-year product
warranty

30-year linear power
output warranty

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

SKYBLUE

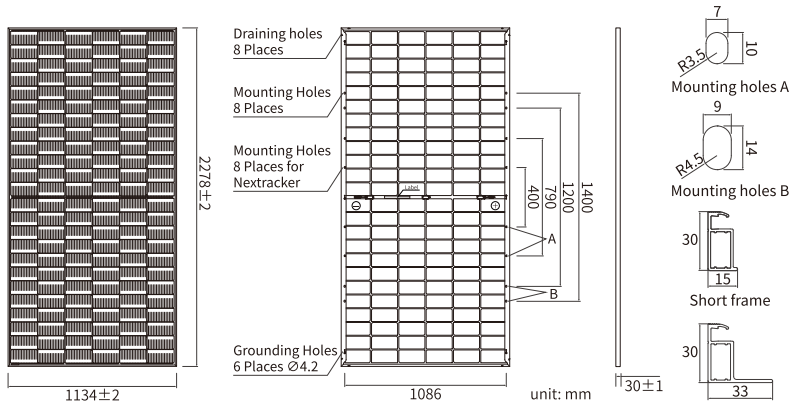
JAM72D40 MB

n-type Double Glass Bifacial Modules



DEEP BLUE 4.0

SKYBLUE



MECHANICAL PARAMETERS

Cell	Mono
Weight	31.8kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1300mm(+)/1300mm(-)
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	JAM72D40 -580/MB	JAM72D40 -585/MB	JAM72D40 -590/MB	JAM72D40 -595/MB	JAM72D40 -600/MB	JAM72D40 -605/MB
Rated Maximum Power(P _{max}) [W]	580	585	590	595	600	605
Open Circuit Voltage (V _{oc}) [V]	51.95	52.16	52.37	52.58	52.79	53.00
Maximum Power Voltage(V _{mp}) [V]	44.02	44.22	44.43	44.64	44.85	45.05
Short Circuit Current(I _{sc}) [A]	13.84	13.89	13.94	13.99	14.04	14.09
Maximum Power Current(I _{mp}) [A]	13.17	13.23	13.28	13.33	13.38	13.43
Module Efficiency [%]	22.5	22.6	22.8	23.0	23.2	23.4
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					

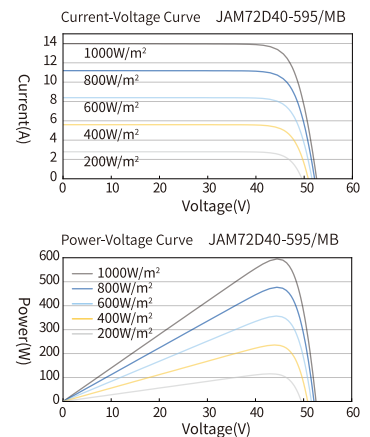
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM72D40 -580/MB	JAM72D40 -585/MB	JAM72D40 -590/MB	JAM72D40 -595/MB	JAM72D40 -600/MB	JAM72D40 -605/MB
Rated Max Power(P _{max}) [W]	626	632	637	643	648	653
Open Circuit Voltage(V _{oc}) [V]	51.95	52.16	52.37	52.58	52.79	53.00
Max Power Voltage(V _{mp}) [V]	44.02	44.22	44.43	44.64	44.85	45.05
Short Circuit Current(I _{sc}) [A]	14.95	15.00	15.06	15.11	15.16	15.22
Max Power Current(I _{mp}) [A]	14.23	14.29	14.34	14.40	14.45	14.50
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	30A
Maximum Static Load, Front*	5400Pa(112 lb/ft²)
Maximum Static Load, Back*	2400Pa(50 lb/ft²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

JA SOLAR

Headquarters

No. 8 Building, Nuode Center, No.1 Courtyard, East Auto Museum Road,
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Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.

Version No. : Global-EN-20241106A

Harvest the Sunshine

630W

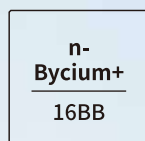


JA SOLAR

JAM66D45 LB

n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%

Up To
Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



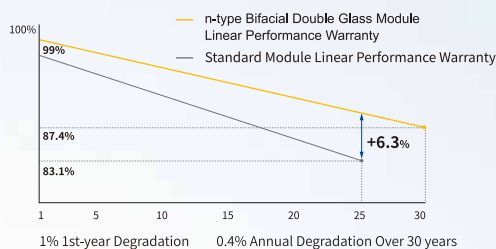
n-type with very
Lower LID



Better Temperature
Coefficient



Excellent Corrosion
Resistance



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

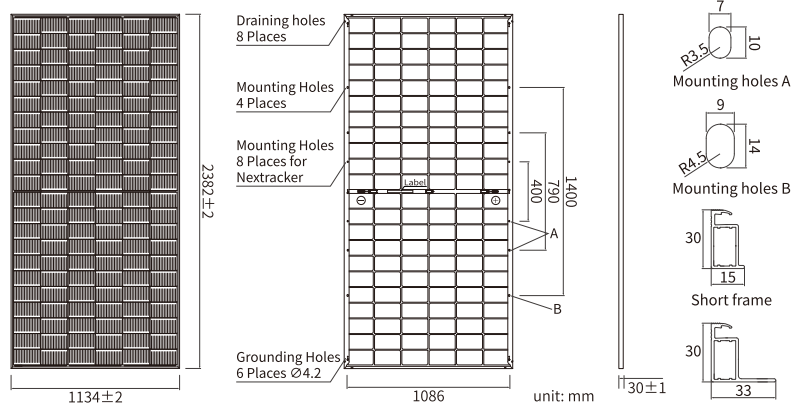
SKYBLUE

JAM66D45 LB

n-type Double Glass Bifacial Modules



SKYBLUE



MECHANICAL PARAMETERS

Cell	Mono
Weight	33.1kg
Dimensions	2382±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	132(6×22)
Junction Box	IP68, 3diodes
Connector	MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1500mm(+)/1500mm(-)
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(P _{max}) [W]	605	610	615	620	625	630
Open Circuit Voltage (V _{oc}) [V]	47.90	48.10	48.30	48.50	48.70	48.90
Maximum Power Voltage(V _{mp}) [V]	39.60	39.77	39.96	40.21	40.45	40.70
Short Circuit Current(I _{sc}) [A]	16.00	16.05	16.10	16.13	16.15	16.18
Maximum Power Current(I _{mp}) [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 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					

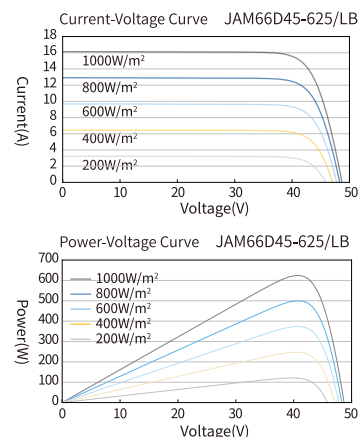
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

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(P _{max}) [W]	653	659	664	670	675	680
Open Circuit Voltage(V _{oc}) [V]	47.90	48.10	48.30	48.50	48.70	48.90
Max Power Voltage(V _{mp}) [V]	39.60	39.77	39.96	40.21	40.45	40.70
Short Circuit Current(I _{sc}) [A]	17.28	17.33	17.39	17.42	17.44	17.47
Max Power Current(I _{mp}) [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/ft²)
Maximum Static Load, Back*	2400Pa(50 lb/ft²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C



Headquarters

No. 8 Building, Nuode Center, No.1 Courtyard, East Auto Museum Road,
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Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.

Version No. : Global-EN-20241106A

Harvest the Sunshine

650W

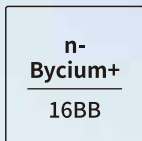


JA SOLAR

JAM72D42 LB

n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%

Up To

Cell Efficiency

Premium Modules



Higher power
generation better LCOE



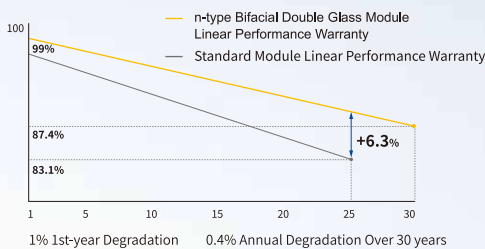
n-type with very
Lower LID



Better Temperature
Coefficient



Excellent Corrosion
Resistance



12-year product
warranty



30-year linear power
output warranty

Comprehensive Certificates

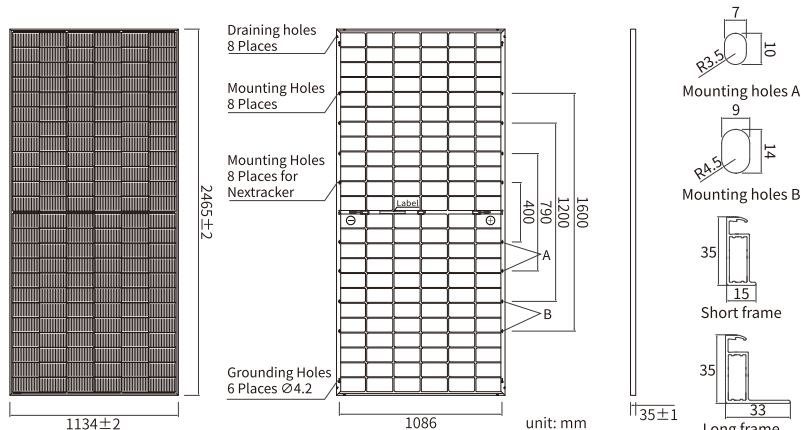
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- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module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



DEEP BLUE 4.0 Pro

SKYBLUE

JAM72D42 LB n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	34.6kg
Dimensions	2465±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1500mm(+)/1500mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	31pcs/Pallet, 496pcs/40HQ Container

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D42 -625/LB	JAM72D42 -630/LB	JAM72D42 -635/LB	JAM72D42 -640/LB	JAM72D42 -645/LB	JAM72D42 -650/LB
Rated Maximum Power(P _{max}) [W]	625	630	635	640	645	650
Open Circuit Voltage (V _{oc}) [V]	52.27	52.47	52.67	52.87	53.07	53.27
Maximum Power Voltage(V _{mp}) [V]	43.71	43.90	44.10	44.29	44.49	44.67
Short Circuit Current(I _{sc}) [A]	15.16	15.21	15.26	15.31	15.36	15.41
Maximum Power Current(I _{mp}) [A]	14.30	14.35	14.40	14.45	14.50	14.55
Module Efficiency [%]	22.4	22.5	22.7	22.9	23.1	23.3
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					

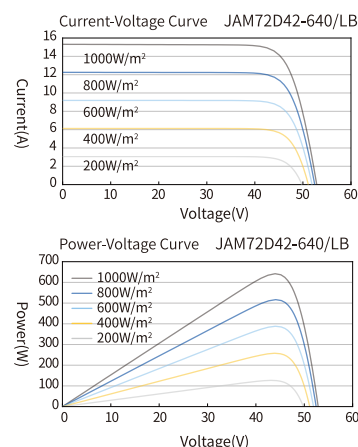
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM72D42 -625/LB	JAM72D42 -630/LB	JAM72D42 -635/LB	JAM72D42 -640/LB	JAM72D42 -645/LB	JAM72D42 -650/LB
Rated Max Power(P _{max}) [W]	675	680	686	691	697	702
Open Circuit Voltage(V _{oc}) [V]	52.27	52.47	52.67	52.87	53.07	53.27
Max Power Voltage(V _{mp}) [V]	43.71	43.90	44.10	44.29	44.49	44.67
Short Circuit Current(I _{sc}) [A]	16.37	16.43	16.48	16.53	16.59	16.64
Max Power Current(I _{mp}) [A]	15.44	15.50	15.55	15.61	15.66	15.71
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	30A
Maximum Static Load, Front*	5400Pa(112 lb/ft ²)
Maximum Static Load, Back*	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

Harvest the Sunshine

605W

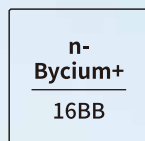


JA SOLAR

JAM72D40 MB

Black Frame
n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



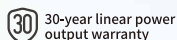
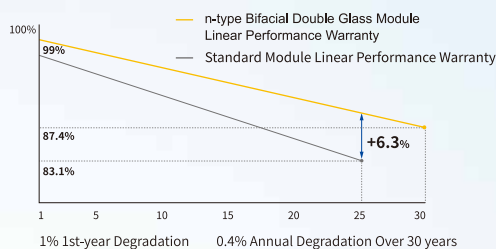
n-type with very
Lower LID



Better Temperature
Coefficient



Better low irradiance
response



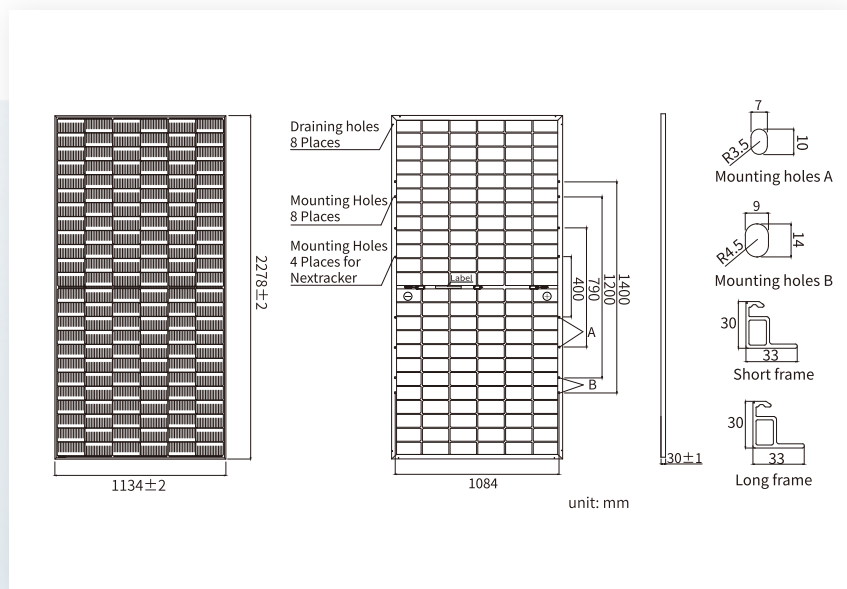
Comprehensive Certificates

- 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



OCEANBLUE

JAM72D40 MB n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	32.2kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1300mm(+)/1300mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Frame	Polyurethane Frame
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container
Remark: customized frame color and cable length available upon request	

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D40 -580/MB	JAM72D40 -585/MB	JAM72D40 -590/MB	JAM72D40 -595/MB	JAM72D40 -600/MB	JAM72D40 -605/MB
Rated Maximum Power(P _{max}) [W]	580	585	590	595	600	605
Open Circuit Voltage (V _{oc}) [V]	51.95	52.16	52.37	52.58	52.79	53.00
Maximum Power Voltage(V _{mp}) [V]	44.02	44.22	44.43	44.64	44.85	45.05
Short Circuit Current(I _{sc}) [A]	13.84	13.89	13.94	13.99	14.04	14.09
Maximum Power Current(I _{mp}) [A]	13.17	13.23	13.28	13.33	13.38	13.43
Module Efficiency [%]	22.5	22.6	22.8	23.0	23.2	23.4
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					

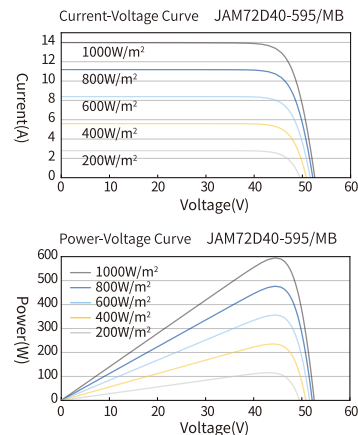
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM72D40 -580/MB	JAM72D40 -585/MB	JAM72D40 -590/MB	JAM72D40 -595/MB	JAM72D40 -600/MB	JAM72D40 -605/MB
Rated Max Power(P _{max}) [W]	626	632	637	643	648	653
Open Circuit Voltage(V _{oc}) [V]	51.95	52.16	52.37	52.58	52.79	53.00
Max Power Voltage(V _{mp}) [V]	44.02	44.22	44.43	44.64	44.85	45.05
Short Circuit Current(I _{sc}) [A]	14.95	15.00	15.06	15.11	15.16	15.22
Max Power Current(I _{mp}) [A]	14.23	14.29	14.34	14.40	14.45	14.50
Irradiation Ratio (rear/front)	10%					

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

CHARACTERISTICS



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%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

Harvest the Sunshine

630W

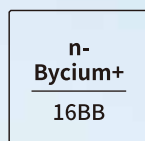


JA SOLAR

JAM66D45 LB

n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Conversion
Efficiency

Premium Modules



Higher power
generation better LCOE



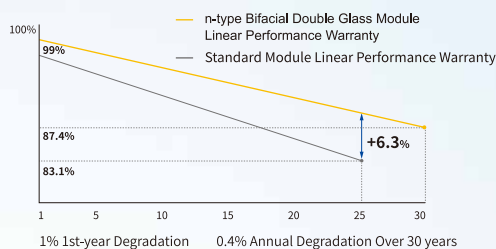
n-type with very
Lower LID



Better Temperature
Coefficient



Excellent Corrosion
Resistance



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



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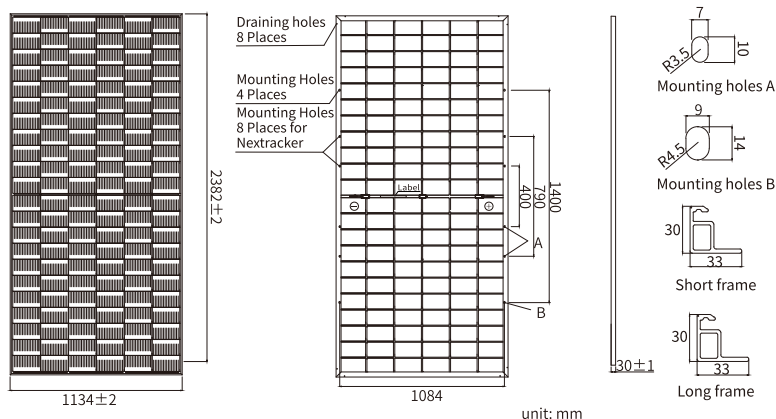
OCEANBLUE

JAM66D45 LB

n-type Double Glass Bifacial Modules



OCEANBLUE



MECHANICAL PARAMETERS

Cell	Mono
Weight	33.8kg
Dimensions	2382±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm²(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: 300mm(+)/400mm(-) Landscape: 1500mm(+)/1500mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Frame	Polyurethane Frame
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 _{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					

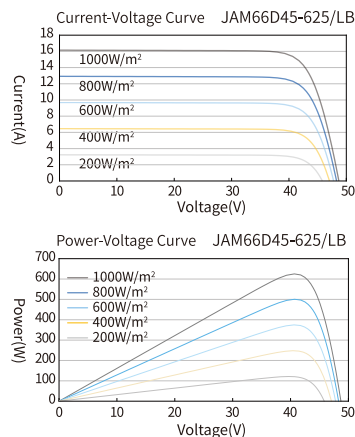
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ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

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/ft²)
Maximum Static Load, Back*	2400Pa(50 lb/ft²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

Harvest the Sunshine

650W

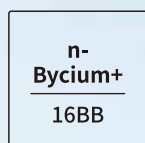


JA SOLAR

JAM72D42 LB

Black Frame
n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell
Technology

26%



Cell Efficiency

Premium Modules



Higher power
generation better LCOE



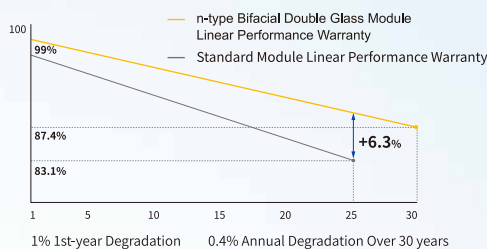
n-type with very
Lower LID



Better Temperature
Coefficient



Excellent Corrosion
Resistance



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



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OCEANBLUE

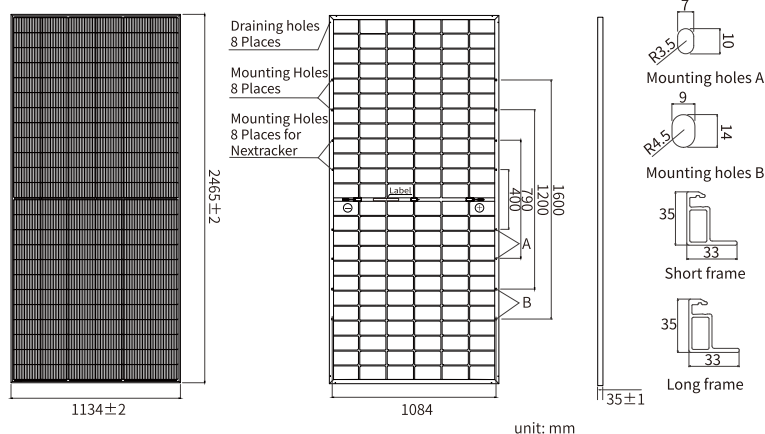


JAM72D42 LB

n-type Double Glass Bifacial Modules



OCEANBLUE



MECHANICAL PARAMETERS

Cell	Mono
Weight	35.4kg
Dimensions	2465±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC4.10-351/MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1500mm(+)/1500mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Frame	Polyurethane Frame
Packaging Configuration	31pcs/Pallet, 496pcs/40HQ Container

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D42 -625/LB	JAM72D42 -630/LB	JAM72D42 -635/LB	JAM72D42 -640/LB	JAM72D42 -645/LB	JAM72D42 -650/LB
Rated Maximum Power(Pmax) [W]	625	630	635	640	645	650
Open Circuit Voltage (Voc) [V]	52.27	52.47	52.67	52.87	53.07	53.27
Maximum Power Voltage(Vmp) [V]	43.71	43.90	44.10	44.29	44.49	44.67
Short Circuit Current(Isc) [A]	15.16	15.21	15.26	15.31	15.36	15.41
Maximum Power Current(Imp) [A]	14.30	14.35	14.40	14.45	14.50	14.55
Module Efficiency [%]	22.4	22.5	22.7	22.9	23.1	23.3
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					

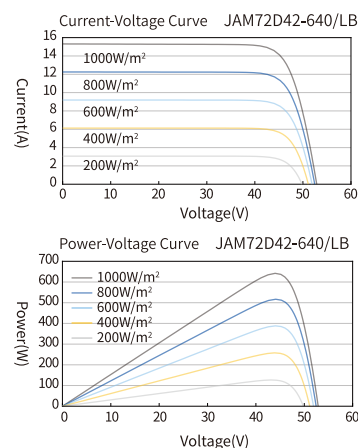
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM72D42 -625/LB	JAM72D42 -630/LB	JAM72D42 -635/LB	JAM72D42 -640/LB	JAM72D42 -645/LB	JAM72D42 -650/LB
Rated Max Power(Pmax) [W]	675	680	686	691	697	702
Open Circuit Voltage(Voc) [V]	52.27	52.47	52.67	52.87	53.07	53.27
Max Power Voltage(Vmp) [V]	43.71	43.90	44.10	44.29	44.49	44.67
Short Circuit Current(Isc) [A]	16.37	16.43	16.48	16.53	16.59	16.64
Max Power Current(Imp) [A]	15.44	15.50	15.55	15.61	15.66	15.71
Irradiation Ratio (rear/front)	10%					

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

CHARACTERISTICS



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%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C



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

Version No. : Global-EN-20241106A

JA-5KLV RESIDENTIAL ENERGY STORAGE BATTERY SPECIFICATION

BlueStar-Pack-L-05H-1



PRODUCT HIGHLIGHTS



SAFE

- Reliable Battery designed with longer cycle life by using LFP battery cells
- All-round Safety Protection, from LFP cell level to battery pack



FLEXIBLE EXPANSION

- Modular design, scalable up to 76.8kWh with 15 units in parallel



SIMPLE AND FAST INSTALLATION

- Wall-mounted or stackable on the floor, less installation time



MONITORING REMOTELY

- Track battery and energy use via APP, anytime, anywhere

TECHNICAL SPECIFICATIONS

GENERAL DATA	BLUESTAR-PACK-L-05H-1
Rated Voltage	51.2V
Voltage Range	44.8~57.6V
Module	1P16S
Rated Capacity	100Ah
Rated Energy	5.12 kWh
Cell Type	LFP 3.2V/100Ah
Charge Mode	CC-CV
Max. Charge Current	100A
Max. Discharge Current	100A
Charge Temperature Range	0-55°C
Discharge Temperature Range	-10-55°C
Communication Port	CAN2.0/RS485/RS232
Battery Protection	Over Charge/Over Discharge /Over Temperature/Over Current/Short Circuit
Size(W*H*T)	556*576*154.5mm
Weight	50kg
Installation	Wall Mounted/Floor Mounted
IP Class	IP20
Parallel Application	Up to 15 Packs (follow the parallel procedure)
Certification	IEC61000/IEC62619/UN38.3
Others	Bluetooth and WiFi

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

DEEP BLUE 4.0 | SKYBLUE

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

DEEP BLUE 4.0 | 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



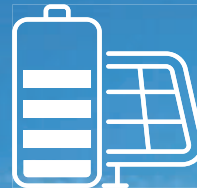
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2025 PRODUCT CATALOGUE



DEEP BLUE4.0



ESS



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