



JA SOLAR PRODUCT BROCHURE

02
COMPANY
PROFILE

04
R&D
PROCESS

06
MODULE DESIGN
CONCEPT

08
PRODUCT
SUMMARY

10
PRODUCT
DETAILS

DeepBlue 4.0 Pro P10
DeepBlue 3.0 P20
Energy Storage System P24

28
PROJECT
CASES

CONTENTS

COMPANY PROFILE

▶ Many Consecutive Years Listed on Fortune China 500

▶ Many Consecutive Years Listed on Global Top 500 New Energy Enterprise

165

Covered Countries and Regions

201_{GW}

Cumulative Shipments (As of Q1 2024)

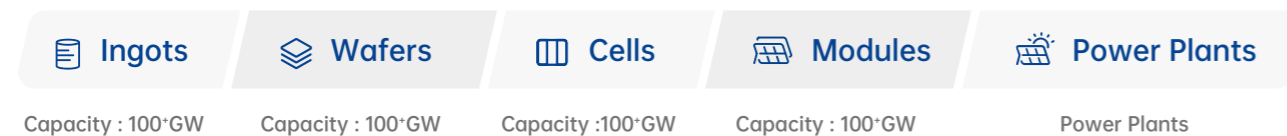
14%

Global Market Share (2022, S&P Global)



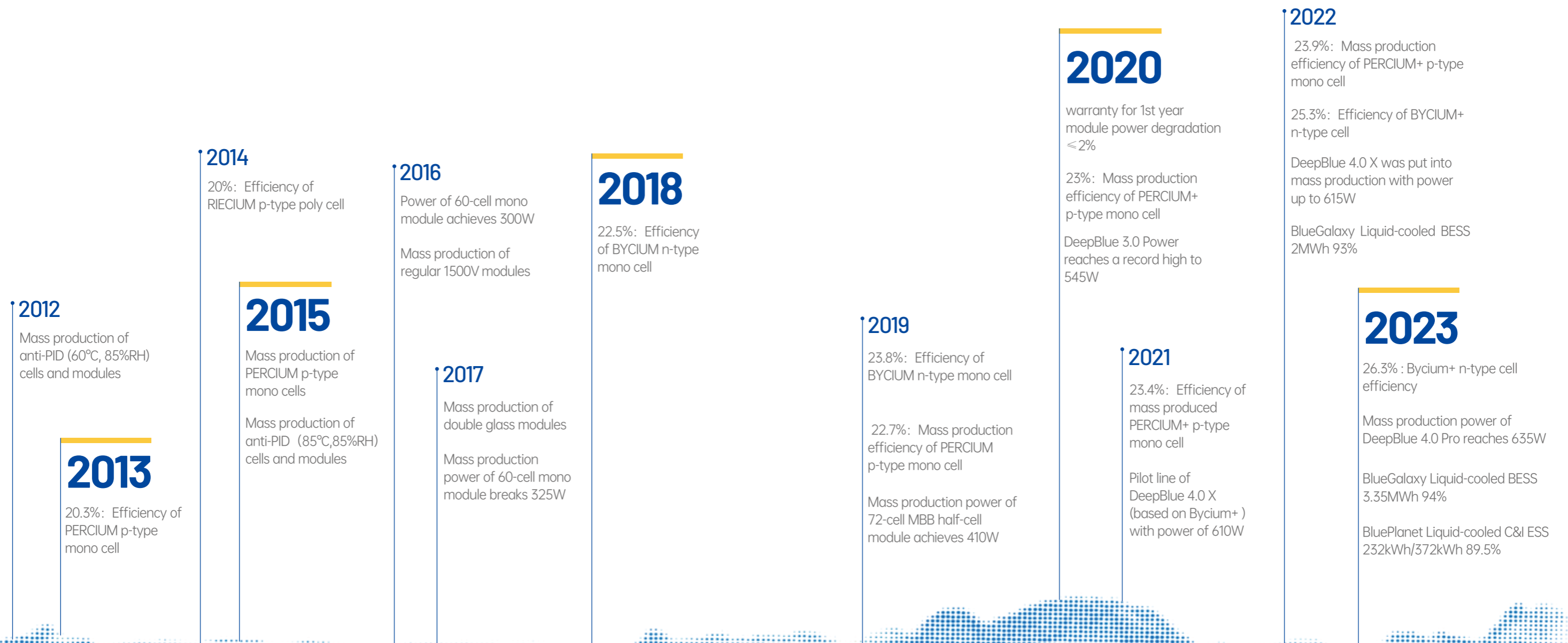
🏠 Global Warehouses 9+
🏢 Global Subsidiaries 14+
🕒 Operation centers 2+

May, 2005 | **NASDAQ** | Shenzhen Stock Exchange | **81.5 Billion RMB** | **50258 Employees**
 Founded in | Listed on Feb, 2007 | Listed on Nov. 2019 | Revenue in 2023 | (As of Q4, 2023)



Note: As of the end of 2024

R&D PROCESS



PRODUCT DESIGN CONCEPT

DeepBlue, Tailored to Increase Customer Value

Since its inception, JA Solar DeepBlue series PV modules have undergone several product iterations, all while staying true to its core design concept of optimizing LCOE (Levelized Cost of Energy). Our iterative design process encompasses the entire industrial chain, prioritizing performance indicators to help customers minimize costs and maximize efficiency. The latest iteration, the DeepBlue 4.0 Pro series, features high-efficiency n-type PV modules known for their exceptional power output, efficiency, and reliability. These modules excel in various application scenarios, delivering superior value to our customers.



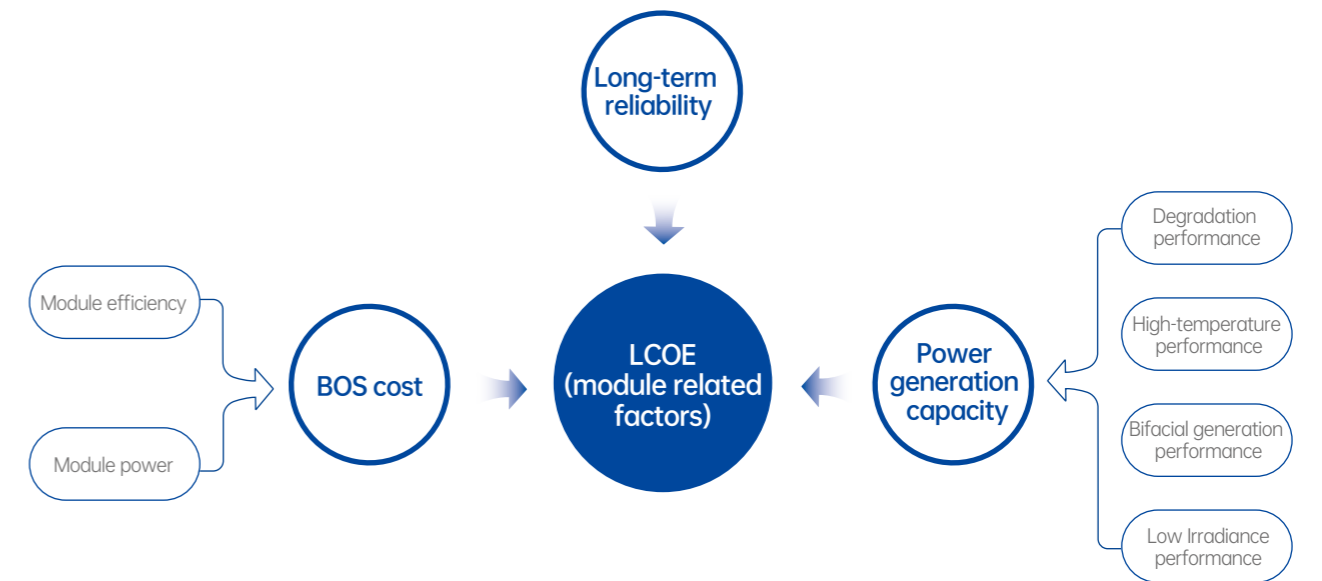
$$\text{LCOE} = \frac{\text{Total Life Cycle cost}}{\text{Total Lifetime energy production}} = \frac{\text{Initial investment} + \text{Annual costs} - \text{Residual value}}{\text{Total Life cycle energy production}}$$

应用场景

- Ocean/Lake
- Desert/Dry hot
- Plateau/High altitude
- Extremely cold climate
- Humid and hot climate

Performance advantages of DeepBlue 4.0 series n-type modules compared to the p-type PERC modules

Different application scenarios experience varying degrees of reduction



Power Degradation

First year power degradation $\leq 1\%$, annual power degradation $\leq 0.4\%$, and power generation gain is about 1.8%



High Temperature

The power temperature coefficient is $-0.30\%/^{\circ}\text{C}$; in high temperature environments, the power generation gain is about 1.5% -2%



Bifacial Power Generation

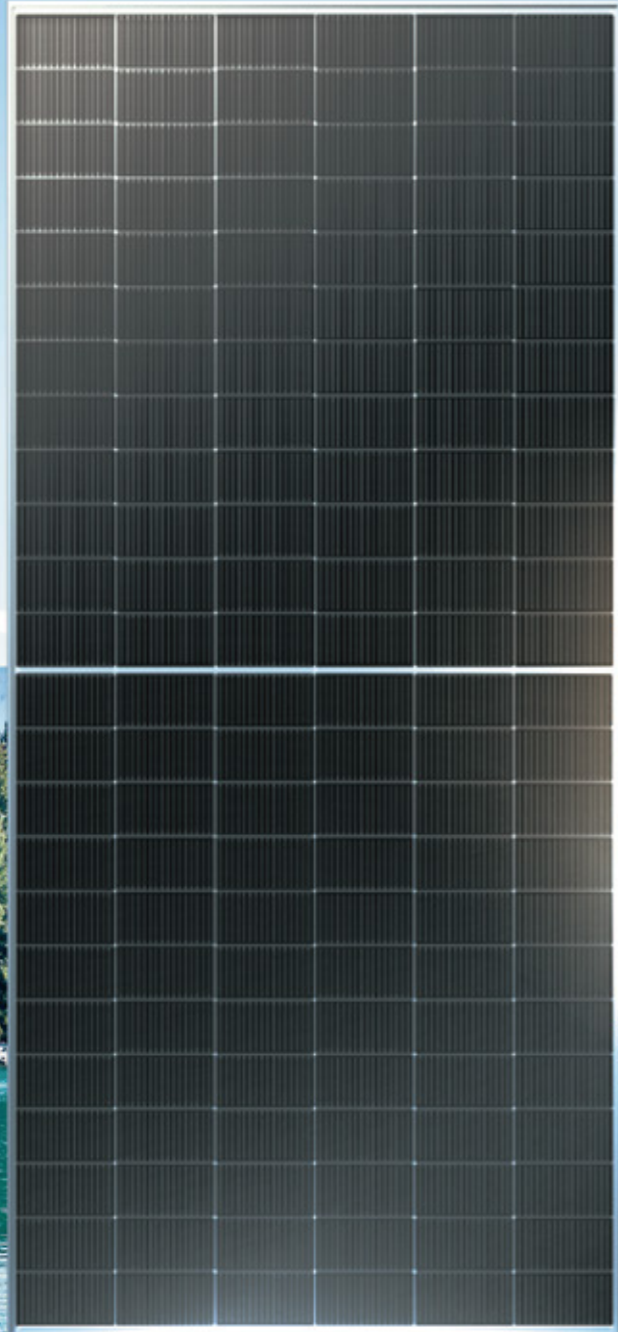
The bifaciality rate is approximately 80%, and the additional power generation from the 10% bifacial gain ranges from 0.8% to 1.2%."



Low Irradiance



When the irradiance is below $600\text{W}/\text{m}^2$, the power generation gain is about 0.2%

PRODUCT SUMMARY



JA Solar DeepBlue series modules mainly include n-type DeepBlue 4.0 Pro and p-type DeepBlue 3.0 series modules.

 Offshore module

Product types	Product models	Number of cells	Single glass/ Double glass		 Mainstream power
n-type Modules	 DeepBlue 4.0 Pro	72	Double glass	JAM72D42/LB	630-640
		66	Double glass	JAM66D45/LB	610-620
		72	Double glass	JAM72D40/LB	595-605
		54	Double glass	JAM54D40/LB	445-455
		54	Single glass	JAM54S40/LR	445-455
		66	Double glass	JAM66D42/MB	585-595
		72	Double glass	 JAM72D42/LB	630-640
		72	Double glass	 JAM72D42/LB	630-640
		72	Double glass	JAM72D40/MB	585-595
p-type Modules	 DeepBlue 3.0pro	72	Double glass	JAM72D30/LB	570-580
		72	Single glass	JAM72S30/LR	575-585
	 DeepBlue 3.0	72	Double glass	JAM72D30/MB	550-560
		72	Single glass	JAM72S30/MR	555-565

DEEP BLUE 4.0 Pro

630-640W
JAM72D42

610-620W
JAM66D45

595-605W
JAM72D40

445-455W
JAM54D40

445-455W
JAM54S40

585-595W
JAM66D42

OCEANBLUE

SKYBLUE

585-595W
JAM72D40

630-640W
JAM72D42

630-640W
JAM72D42

DEEP BLUE 3.0 Pro

570-580W
JAM72D30

575-585W
JAM72S30

545-555W
JAM72D30

545-555W
JAM72S30

DEEP BLUE 3.0

JAM72D42

640W LB Series



JAM72D42
n-type Double Glass
Bifacial Modules

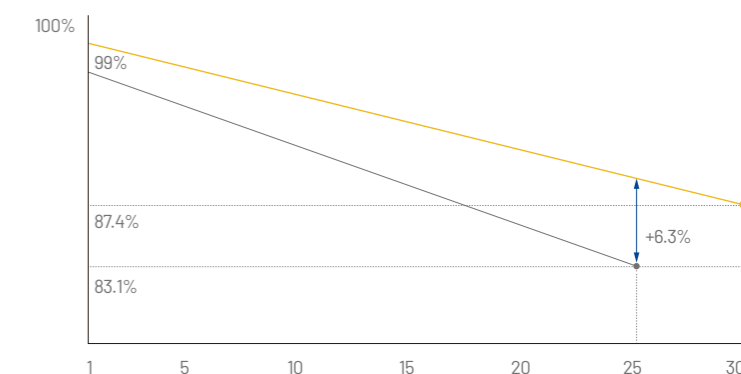
ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D42 630/LB	JAM72D42 635/LB	JAM72D42 640/LB
Rate Maximum Power(Pmax)[W]	630	635	640
Open Circuit Voltage (Voc)[V]	52.47	52.67	52.87
Maximum Power Voltage(Vmp)[v]	43.90	44.10	44.29
Short Circuit Current(Isc)[A]	15.21	15.26	15.31
Maximum Power Current(Imp)[A]	14.35	14.40	14.45
Module Efficiency[%]	22.5	22.7	22.9
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		

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	IP68,3 diodes
Connector	QC 4.10-35I/ MC4-EV02A
Cable Length(Including Connector)	300mm(+/-400mm(-))
Front Class/Back Glass	2.0mm/2.0mm
Packaging Configuration	31pcs/Pallet,596pcs/40HQ Container

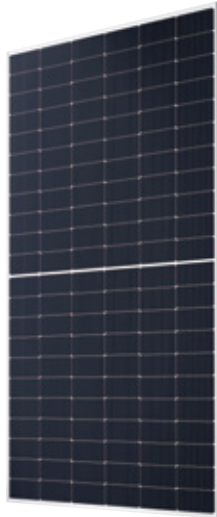
SUPERIOR WARRANTY



— n-type Bifacial Double Glass Module Linear Performance Warranty
— Standard Module Linear Performance Warranty

JAM66D45

620W **LB**
Series



JAM66D45
n-type Double Glass
Bifacial Modules

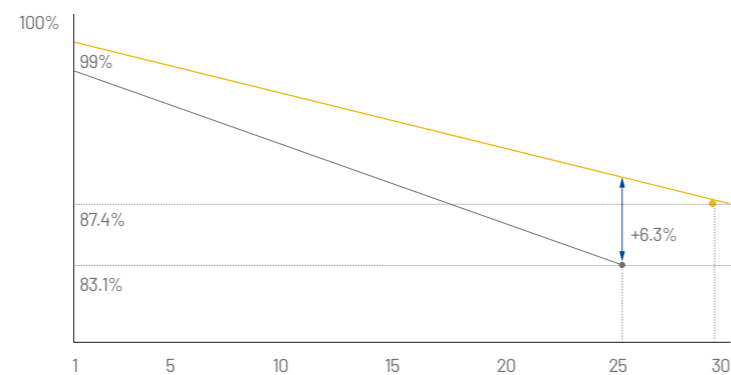
ELECTRICAL PARAMETERS AT STC

TYPE	JAM66D45 610/LB	JAM66D45 615/LB	JAM66D45 620/LB
Rate Maximum Power(Pmax)[W]	610	615	620
Open Circuit Voltage (Voc)[V]	48.10	48.30	48.50
Maximum Power Voltage(Vmp)[v]	39.77	39.96	40.21
Short Circuit Current(Isc)[A]	16.05	16.10	16.13
Maximum Power Current(Imp)[A]	15.34	15.39	15.42
Module Efficiency[%]	22.6	22.8	23.0
Power Tolerance	0~+3%		
Temperature Coefficient of Isc (α-Isc)	+0.045%/°C		
Temperature Coefficient of Voc (β-Voc)	-0.250%/°C		
Temperature Coefficient of Pmax (γ-Pmp)	-0.290%/°C		

MECHANICAL PARAMETERS

Cell	Mono
Weight	33.1kg
Dimensions	2382±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	132(6×22)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EV02A
Cable Length(Including Connector)	300mm(+)/400mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

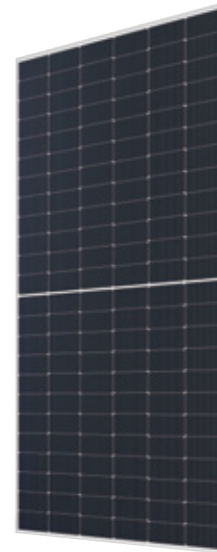
SUPERIOR WARRANTY



— n-type Bifacial Double Glass Module Linear Performance Warranty
— Standard Module Linear Performance Warranty

JAM72D40

605W **LB**
Series



JAM72D40
n-type Double Glass
Bifacial Modules

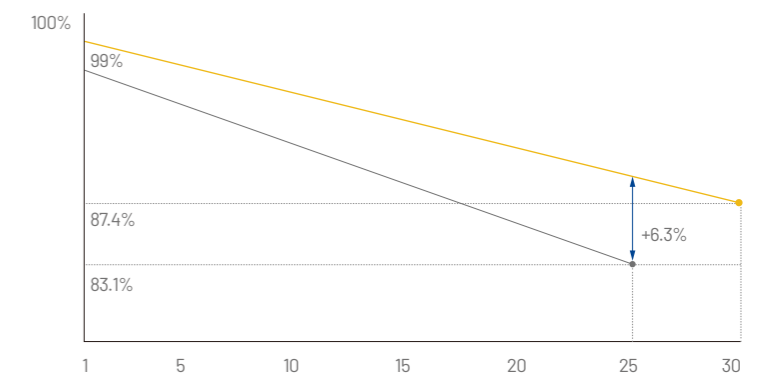
ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D40 595/LB	JAM72D40 600/LB	JAM72D40 605/LB
Rate Maximum Power(Pmax)[W]	595	600	605
Open Circuit Voltage (Voc)[V]	52.20	52.40	52.60
Maximum Power Voltage(Vmp)[v]	43.59	43.76	43.94
Short Circuit Current(Isc)[A]	14.42	14.48	14.53
Maximum Power Current(Imp)[A]	13.65	13.71	13.77
Module Efficiency[%]	22.5	22.7	22.9
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		

MECHANICAL PARAMETERS

Cell	Mono
Weight	32.5kg
Dimensions	2333±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EV02A
Cable Length(Including Connector)	300mm(+)/400mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

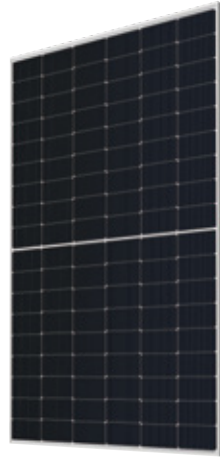
SUPERIOR WARRANTY



— n-type Bifacial Double Glass Module Linear Performance Warranty
— Standard Module Linear Performance Warranty

JAM54D40

455W **LB**
Series



JAM54D40

n-type Double Glass
Bifacial Modules

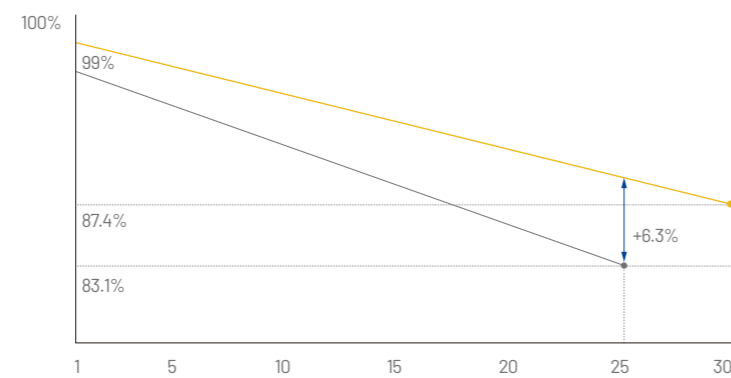
ELECTRICAL PARAMETERS AT STC

TYPE	JAM54D40 445/LB	JAM54D40 450/LB	JAM54D40 455/LB
Rate Maximum Power(Pmax)[W]	445	450	455
Open Circuit Voltage (Voc)[V]	39.10	39.30	39.50
Maximum Power Voltage(Vmp)[v]	32.65	32.82	33.00
Short Circuit Current(Isc)[A]	14.40	14.48	14.56
Maximum Power Current(Imp)[A]	13.63	13.71	13.79
Module Efficiency[%]	22.3	22.5	22.8
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		

MECHANICAL PARAMETERS

Cell	Mono
Weight	22kg
Dimensions	1762±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12AWG(UL)
No. of cells	108(6×18)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EV02A
Cable Length(Including Connector)	300mm(+)/400mm(-)
Front Class/Back Glass	1.6mm/1.6mm
Packaging Configuration	36pcs/Pallet, 936pcs/40HQ Container

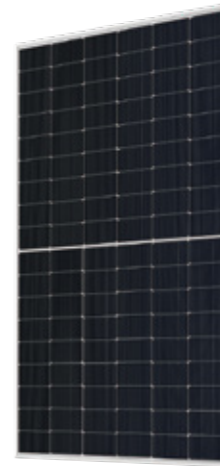
SUPERIOR WARRANTY



— n-type Bifacial Double Glass Module Linear Performance Warranty
— Standard Module Linear Performance Warranty

JAM54S40

455W **LR**
Series



JAM54S40

n型单玻光伏组件

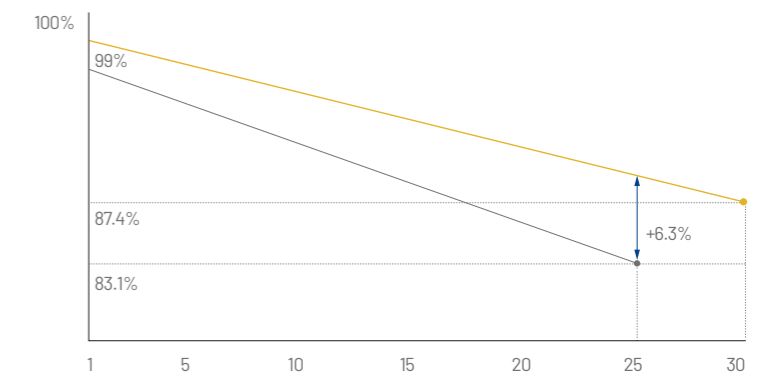
ELECTRICAL PARAMETERS AT STC

TYPE	JAM54S40 445/LR	JAM54S40 450/LR	JAM54S40 455/LR
Rate Maximum Power(Pmax)[W]	445	450	455
Open Circuit Voltage (Voc)[V]	39.10	39.30	39.50
Maximum Power Voltage(Vmp)[v]	32.65	32.82	33.00
Short Circuit Current(Isc)[A]	14.40	14.48	14.56
Maximum Power Current(Imp)[A]	13.63	13.71	13.79
Module Efficiency[%]	22.3	22.5	22.8
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		

MECHANICAL PARAMETERS

Cell	Mono
Weight	20kg
Dimensions	1762±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12AWG(UL)
No. of cells	108(6×18)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EV02A
Cable Length(Including Connector)	300mm(+)/400mm(-)
Front Class	2.8mm
Packaging Configuration	36pcs/Pallet, 936pcs/40HQ Container

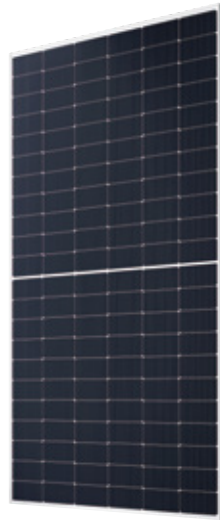
SUPERIOR WARRANTY



— n-type Monofacial Module Linear Performance Warranty
— Standard Module Linear Performance Warranty

JAM66D42

585W MB Series



JAM66D42
n-type Double Glass
Bifacial Modules

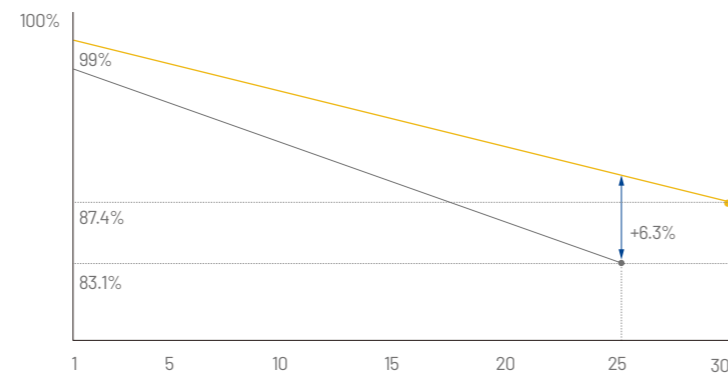
ELECTRICAL PARAMETERS AT STC

TYPE	JAM66D42 585/MB	JAM66D42 590/MB	JAM66D42 595/MB
Rate Maximum Power(Pmax)[W]	585	590	595
Open Circuit Voltage (Voc)[V]	48.38	48.58	48.78
Maximum Power Voltage(Vmp)[v]	40.63	40.84	41.03
Short Circuit Current(Isc)[A]	15.26	15.31	15.36
Maximum Power Current(Imp)[A]	14.40	14.45	14.50
Module Efficiency[%]	22.6	22.8	23.0
Power Tolerance	0~+3%		
Temperature Coefficient of Isc (α-Isc)	+0.045%/°C		
Temperature Coefficient of Voc (β-Voc)	-0.250%/°C		
Temperature Coefficient of Pmax (γ-Pmp)	-0.290%/°C		

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, 3 diodes
Connector	QC 4.10-351/ MC4-EV02A
Cable Length(Including Connector)	300mm(+)/400mm(-)
Front Class/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

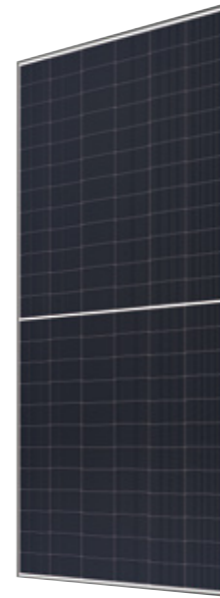
SUPERIOR WARRANTY



— n-type Bifacial Double Glass Module Linear Performance Warranty
— Standard Module Linear Performance Warranty

JAM72D42

640W LB Series



JAM72D42
n-type Double Glass
Bifacial Modules

OCEANBLUE

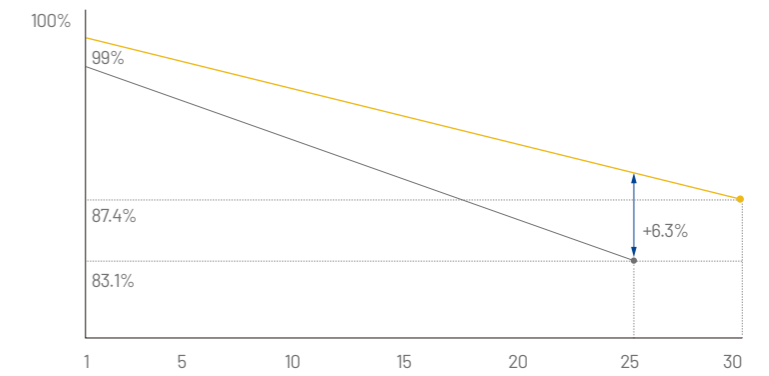
ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D42 630/LB	JAM72D42 635/LB	JAM72D42 640/LB
Rate Maximum Power(Pmax)[W]	630	635	640
Open Circuit Voltage (Voc)[V]	52.47	52.67	52.87
Maximum Power Voltage(Vmp)[v]	43.90	44.10	44.29
Short Circuit Current(Isc)[A]	15.21	15.26	15.31
Maximum Power Current(Imp)[A]	14.35	14.40	14.45
Module Efficiency[%]	22.5	22.7	22.9
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		

MECHANICAL PARAMETERS

Cell	Mono
Weight	35.4kg
Dimensions	2465±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm ² (IEC), 12AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	MC4-EV02A
Cable Length(Including Connector)	300mm(+)/400mm(-)
Front Class/Back Glass	2.0mm/2.0mm
Frame	Polyurethane Frame
Packaging Configuration	31pcs/Pallet, 496pcs/40HQ Container

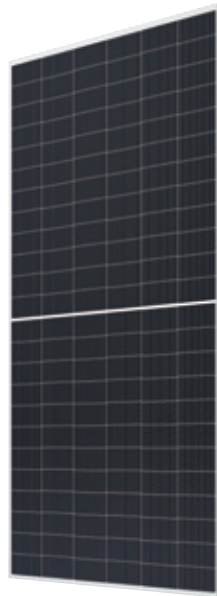
SUPERIOR WARRANTY



— n-type Bifacial Double Glass Module Linear Performance Warranty
— Standard Module Linear Performance Warranty

JAM72D42

640W **LB** Series



JAM72D42

n-type Double Glass
Bifacial Modules



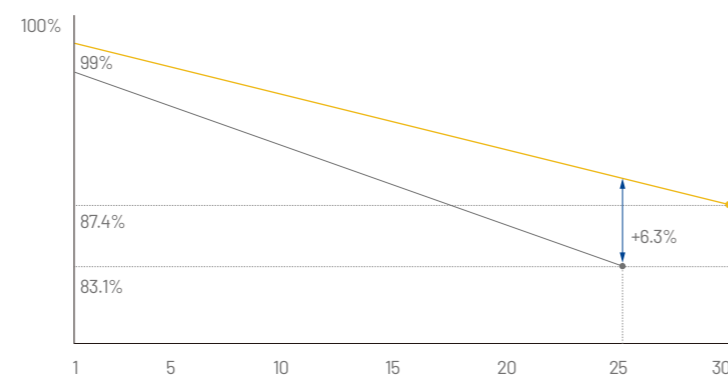
ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D42 630/LB	JAM72D42 635/LB	JAM72D42 640/LB
Rate Maximum Power(Pmax)[W]	630	635	640
Open Circuit Voltage (Voc)[V]	52.47	52.67	52.87
Maximum Power Voltage(Vmp)[v]	43.90	44.10	44.29
Short Circuit Current(Isc)[A]	15.21	15.26	15.31
Maximum Power Current(Imp)[A]	14.35	14.40	14.45
Module Efficiency[%]	22.5	22.7	22.9
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		

MECHANICAL PARAMETERS

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

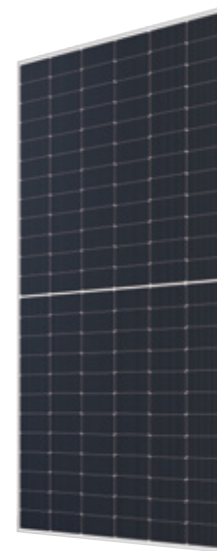
SUPERIOR WARRANTY



— n-type Bifacial Double Glass Module Linear Performance Warranty
— Standard Module Linear Performance Warranty

JAM72D40

595W **MB** Series



JAM72D40

n-type Double Glass
Bifacial Modules

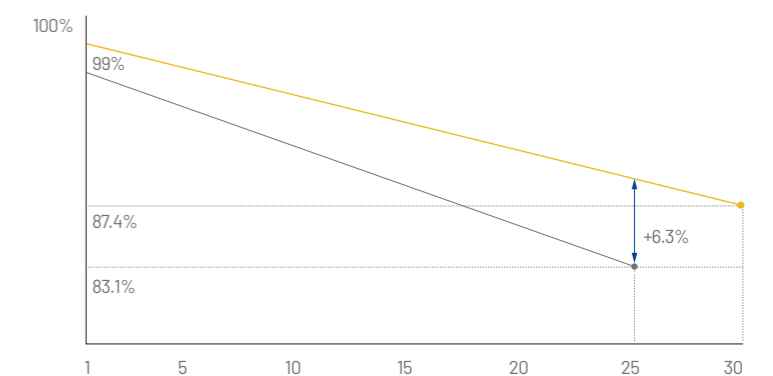
ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D40 585/MB	JAM72D40 590/MB	JAM72D40 595/MB
Rate Maximum Power(Pmax)[W]	585	590	595
Open Circuit Voltage (Voc)[V]	52.16	52.37	52.58
Maximum Power Voltage(Vmp)[v]	44.22	44.43	44.64
Short Circuit Current(Isc)[A]	13.89	13.94	13.99
Maximum Power Current(Imp)[A]	13.23	13.28	13.33
Module Efficiency[%]	22.6	22.8	23.0
Power Tolerance	0~+3%		
Temperature Coefficient of Isc (α-Isc)	+0.046%/°C		
Temperature Coefficient of Voc (β-Voc)	-0.260%/°C		
Temperature Coefficient of Pmax (γ-Pmp)	-0.290%/°C		

MECHANICAL PARAMETERS

Cell	Mono
Weight	31.8kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length(Including Connector)	300mm(+)/400mm(-)
Front Class/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

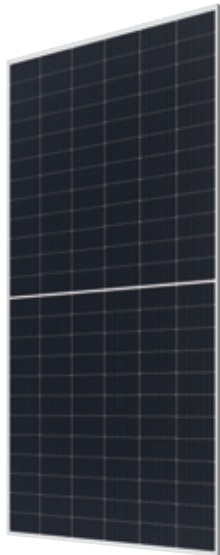
SUPERIOR WARRANTY



— n-type Bifacial Double Glass Module Linear Performance Warranty
— Standard Module Linear Performance Warranty

JAM72D30

580W **LB**
Series



JAM72D30
p-type Double Glass
Bifacial Modules

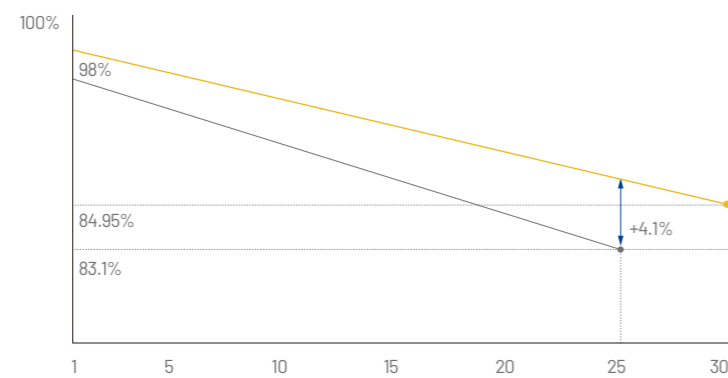
ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D30 570/LB	JAM72D30 575/LB	JAM72D30 580/LB
Rate Maximum Power(Pmax)[W]	570	575	580
Open Circuit Voltage (Voc)[V]	50.68	50.86	51.04
Maximum Power Voltage(Vmp)[v]	41.87	42.05	42.24
Short Circuit Current(Isc)[A]	14.37	14.44	14.50
Maximum Power Current(Imp)[A]	13.62	13.67	13.73
Module Efficiency[%]	21.5	21.7	21.9
Power Tolerance	0~+3%		
Temperature Coefficient of Isc (α-Isc)	+0.045%/°C		
Temperature Coefficient of Voc (β-Voc)	-0.275%/°C		
Temperature Coefficient of Pmax (γ-Pmp)	-0.350%/°C		

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, 3 diodes
Connector	QC 4.10-351/ MC4-EV02A
Cable Length(Including Connector)	300mm(+)/400mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

SUPERIOR WARRANTY



— Bifacial Double Glass Module Linear Performance Warranty
— Standard Module Linear Performance Warranty

JAM72S30

585W **LR**
Series



JAM72S30
p-type Monofacial Modules

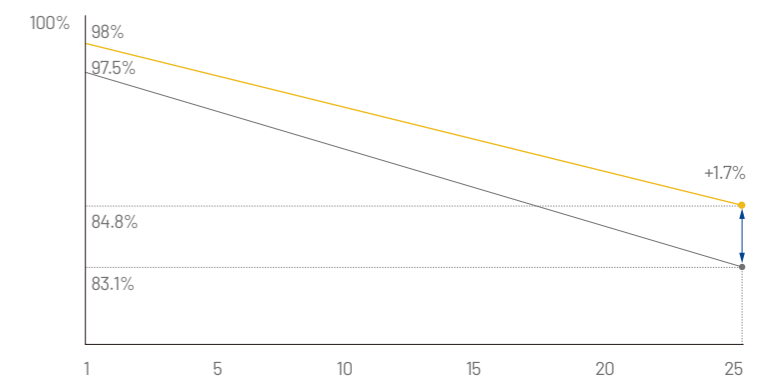
ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S30 575/LR	JAM72S30 580/LR	JAM72S30 585/LR
Rate Maximum Power(Pmax)[W]	575	580	585
Open Circuit Voltage (Voc)[V]	50.86	51.04	51.22
Maximum Power Voltage(Vmp)[v]	42.05	42.24	42.42
Short Circuit Current(Isc)[A]	14.44	14.50	14.56
Maximum Power Current(Imp)[A]	13.67	13.73	13.79
Module Efficiency[%]	21.7	21.9	22.1
Power Tolerance	0~+3%		
Temperature Coefficient of Isc (α-Isc)	+0.045%/°C		
Temperature Coefficient of Voc (β-Voc)	-0.275%/°C		
Temperature Coefficient of Pmax (γ-Pmp)	-0.350%/°C		

MECHANICAL PARAMETERS

Cell	Mono
Weight	28kg
Dimensions	2333±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EV02A
Cable Length(Including Connector)	300mm(+)/400mm(-)
Front Glass	3.2mm
Packaging Configuration	36pcs/Pallet, 720pcs/40ft Container

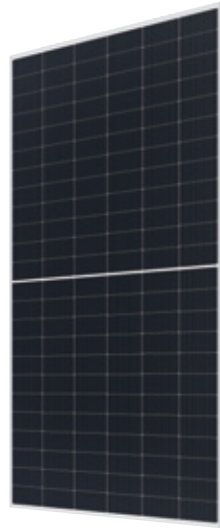
SUPERIOR WARRANTY



— New Linear Performance Warranty
— Standard Module Linear Performance Warranty

JAM72D30

555W MB Series



JAM72D30
p-type Double Glass
Bifacial Modules

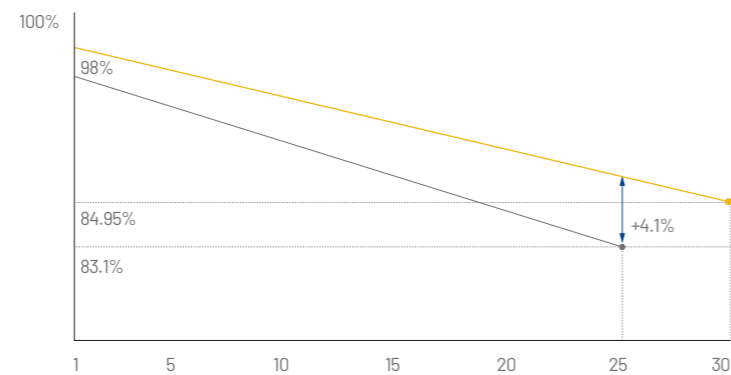
ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D30 545/MB	JAM72D30 550/MB	JAM72D30 555/MB
Rate Maximum Power(Pmax)[W]	545	550	555
Open Circuit Voltage (Voc)[V]	49.75	49.90	50.02
Maximum Power Voltage(Vmp)[v]	41.80	41.96	42.11
Short Circuit Current(Isc)[A]	13.93	14.00	14.07
Maximum Power Current(Imp)[A]	13.04	13.11	13.18
Module Efficiency[%]	21.1	21.3	21.5
Power Tolerance	0~+5W		
Temperature Coefficient of Isc (α-Isc)	+0.045%/°C		
Temperature Coefficient of Voc (β-Voc)	-0.275%/°C		
Temperature Coefficient of Pmax (γ-Pmp)	-0.350%/°C		

MECHANICAL PARAMETERS

Cell	Mono
Weight	31.8kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EV02A
Cable Length(Including Connector)	200mm(+)/300mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

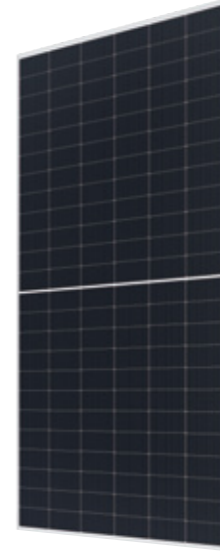
SUPERIOR WARRANTY



— Bifacial Double Glass Module Linear Performance Warranty
— Standard Module Linear Performance Warranty

JAM72S30

555W MR Series



JAM72S30
p-type Monofacial Modules

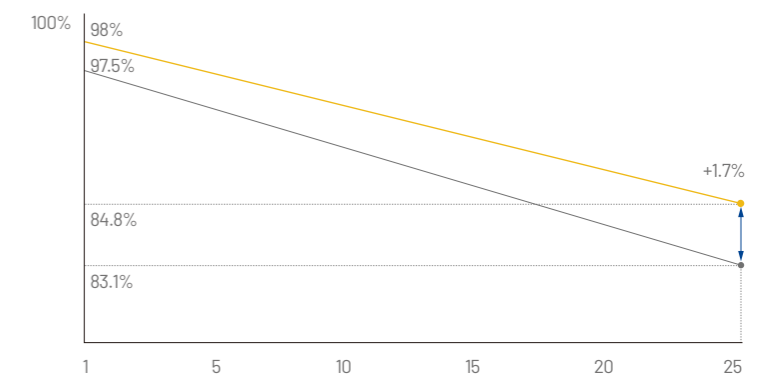
ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S30 545/MR	JAM72S30 550/MR	JAM72S30 555/MR
Rate Maximum Power(Pmax)[W]	545	550	555
Open Circuit Voltage (Voc)[V]	49.75	49.90	50.02
Maximum Power Voltage(Vmp)[v]	41.80	41.96	42.11
Short Circuit Current(Isc)[A]	13.93	14.00	14.07
Maximum Power Current(Imp)[A]	13.04	13.11	13.18
Module Efficiency[%]	21.1	21.3	21.5
Power Tolerance	0~+5W		
Temperature Coefficient of Isc (α-Isc)	+0.045%/°C		
Temperature Coefficient of Voc (β-Voc)	-0.275%/°C		
Temperature Coefficient of Pmax (γ-Pmp)	-0.350%/°C		

MECHANICAL PARAMETERS

Cell	Mono
Weight	27.3kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EV02A
Cable Length(Including Connector)	200mm(+)/300mm(-)
Front Glass/Back Glass	3.2mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

SUPERIOR WARRANTY

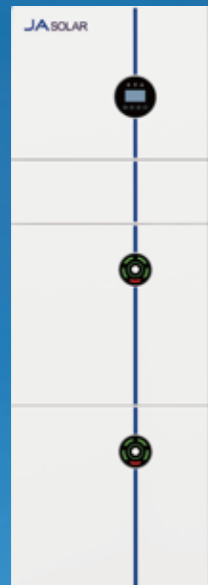


— New Linear Performance Warranty
— Standard Module Linear Performance Warranty

ENERGY STORAGE SYSTEM

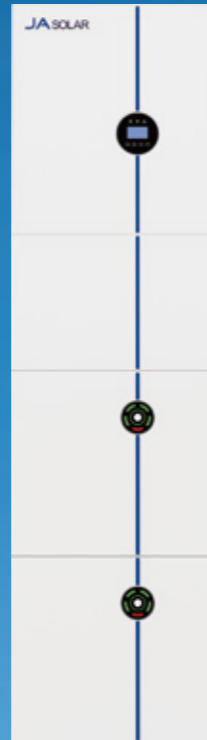
Single-phase ESS

5kW/5kWh (5/10/15/20kWh)



Three-phase ESS

10kW/10kWh (10/20/30/40kWh)



BlueStar All-In-One ESS

JA RESIDENTIAL ENERGY STORAGE SYSTEM



Single-phase ESS

5kW/5kWh (5/10/15/20kWh)



Three-phase ESS

10kW/10kWh (10/20/30/40kWh)

HYBRID INVERTER MODEL

	BLUESTAR-INVERTER -1P-05K-EU	BLUESTAR-INVERTER -3P-10K-EU
Max. Continuous PV Input Power	6.5kW	20kW
Number of MPPT Tracker	2	2
Max. Input Current Per MPPT	15A	15A
Nominal AC Output Power	5kW	10kW
Nominal AC	230V, 50/60Hz	400V, 60/60Hz
Battery Capacity	100-400 Ah	200/400/600/800 Ah
Dimensions W x H x D	540x590x240 mm	540x980x240 mm
Weight	32kg	49 kg
Communication	RS-485/CAN 2.0/WIFI/4G	RS-485/CAN 2.0/WIFI/4G
Display	LCD/APP	LCD/APP

BATTERY MODEL

Battery Type	LFP(LiFePO4)
Weight	54kg
Dimension (W x H x D)	540 x 490 x 240mm
IP Protection	IP 65
Warranty	5 Year Product Warranty 10 Year Performance Warranty
Energy Capacity	5.12kWh
Nominal Voltage	51.2V
Cycle Life	10000 cycle

PRODUCT HIGHLIGHTS

SAFE

- CATL LFP battery
- Safe, reliable, 10-year warranty

SIMPLE

- All-in-one design, multiple battery expansional
- 30 mins quick installation

SMART

- Smart energy management system
- Real-time monitoring via global APP or Web

ENERGY STORAGE SYSTEM

BlueGalaxy 5365/4659



BlueGalaxy 5365/4659

Utility Liquid-cooled Ess

TECHNICAL SPECIFICATIONS

	BLUEGALAXY5365	BLUEGALAXY4659
Battery capacity (BOL)	5365kWh	4659kWh
Nominal power	1236kW	2125kW
Dimensions (W×D×H)	6058 × 2438 × 2896mm	6058 × 2438 × 2896mm
Weight	≤42252kg	≤42252kg
IP rating	IP55	IP55
Cooling concept	Air-cooled	Liquid-cooled
Fire suppression system	With fire alarm system (Aerosol)	With fire alarm system (Aerosol)
Communication interfaces	Ethernet	Ethernet
Communication protocolst	Modbus TCP/IP	Modbus TCP/IP

PRODUCT HIGHLIGHTS

SAFE

- Safe and long lifecycle LFP battery
- Integrated local controller, HVAC and FSS to ensure system safety

RELIABLE

- Highly integrated & efficient system
- 300+ test validations

INTEGRATED

- Ultra-high energy density
- Maximized space utilization

EASY

- Easy transportation & on-site installation
- Easy maintenance

PROJECT CASES

UTILITY PROJECTS



1GW

Yalong River Kola Phase 1 Ground-mounted PV Project

The world's largest and highest-altitude Hydro-PV complementary power station

📍 Yajiang, Sichuan

🕒 2023



615MW

Ground-mounted PV project in Hainan, Qinghai

The world's first ± 800 kV UHV transmission line, the largest single project capacity in the world

📍 Qinghai, China

🕒 2020



550MW

Ground-mounted PV project in Loc Ninh, Vietnam

The largest single PV plant in Southeast Asia, winner of the Asian Energy Awards 2022

📍 Loc Ninh, Vietnam

🕒 2020



58.5MW

EGAT floating PV project in Thailand

Thailand's largest floating PV project, which is currently the world's largest integrated hydropower and floating PV energy demonstration project

📍 Ubon, Thailand

🕒 2021

COMMERCIAL AND INDUSTRIAL PROJECTS



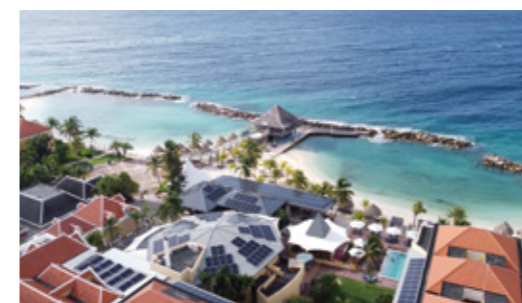
5.9^{MW}

Beijing Fengtai station

Providing green power for the operation of Fengtai station, Asia's largest railroad hub passenger station

📍 Fengtai, Beijing

🕒 2022



154.46^{kW}

Avila Beach Hotel

Commercial and Industrial distributed projects

📍 Netherlands

🕒 2023



1.5^{MW}

Malaysia Mercedes-Benz 4S

Commercial and Industrial distributed projects

📍 Malaysia

🕒 2022



97^{kW}

Training center of Pzor Football Club in Brazil

First PV project installed in a soccer club in Brazil

📍 Brazil

🕒

2021

RESIDENTIAL PROJECTS



400^{kW}

Devon, UK

JA Solar All-black modules, perfect integration with the roof and the surrounding environment, to achieve the unity of aesthetics, economy, environmental protection

📍 Devon, UK

🕒 2019



25^{kW}

Shunyi, Beijing

Residential Distributed Project

📍 Beijing

🕒 2021



28.3^{kW}

Shanwei, Guangdong

Residential Distributed Project

📍 Shanwei, Guangdong

🕒 2023



12^{kW}

Taicang, Jiangsu

Residential Distributed Project

📍 Taicang, Jiangsu

🕒 2020