

Harvest the Sunshine

JA SOLAR

610W



JAM72D40 MB n-type Double Glass Bifacial Modules

Premium Cells

n-
Bycium+
16BB

MBB Half-Cell
Technology

26%

Up To

Cell Conversion
Efficiency

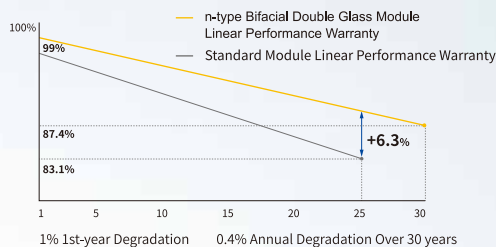
Premium Modules

Higher power
generation better LCOE

LID n-type with very
Lower LID

Better Temperature
Coefficient

Better low irradiance
response



12 12-year product warranty

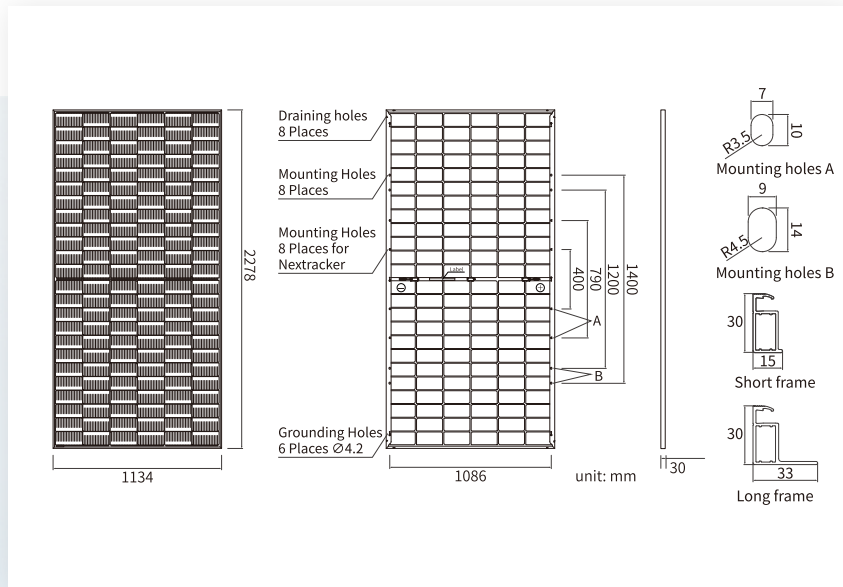
30 30-year linear power output warranty

Comprehensive Certificates

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



DEEP BLUE 4.0 Pro



MECHANICAL PARAMETERS

Cell	Mono
Weight	31.8kg
Dimensions	2278×1134mm×30mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	QC Solar QC4.10-351/QC4.10-35 Stäubli PV-KST4-EVO2A/xy ,PV-KBT4-EVO2A/xy
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
Country of Manufacturer	China/Vietnam

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC and BNPI

TYPE	JAM72D40 -585/MB		JAM72D40 -590/MB		JAM72D40 -595/MB		JAM72D40 -600/MB		JAM72D40 -605/MB		JAM72D40 -610/MB	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
	Rated Maximum Power(Pmax) [W]	585	645	590	650	595	655	600	660	605	665	610
Open Circuit Voltage (Voc) [V]	52.16	52.16	52.37	52.37	52.58	52.58	52.79	52.79	53.00	53.00	53.75	53.75
Maximum Power Voltage(Vmp) [V]	44.22	44.22	44.43	44.43	44.64	44.64	44.85	44.85	45.05	45.05	45.26	45.26
Short Circuit Current(Isc) [A]	13.89	15.32	13.94	15.36	13.99	15.40	14.04	15.44	14.09	15.49	14.14	15.61
Maximum Power Current(Imp) [A]	13.23	14.59	13.28	14.63	13.33	14.68	13.38	14.72	13.43	14.77	13.48	14.88
Module Efficiency [%]	22.6	22.8	23.0	23.2	23.4	23.6						
Short Circuit Current (Isc) [A]at BSI	17.10	17.13	17.16	17.20	17.23	17.41						
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/m ² , cell temperature 25°C, AM1.5G											
BNPI	front Irradiance 1000W/m ² , rear Irradiance 135W/m ²											
BSI	front Irradiance 1000W/m ² , rear Irradiance 300W/m ²											

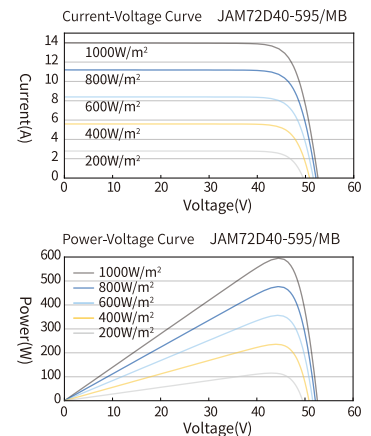
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types. Measurement tolerance at STC and BNPI: Pmax ±3%, Voc ±3% and Isc ±5%.

ELECTRICAL CHARACTERISTICS WITH 10% Bifacial Gains

TYPE	JAM72D40 -585/MB	JAM72D40 -590/MB	JAM72D40 -595/MB	JAM72D40 -600/MB	JAM72D40 -605/MB	JAM72D40 -610/MB
	Rated Max Power(Pmax) [W]	643.5	649.0	654.5	660.0	665.5
Open Circuit Voltage(Voc) [V]	52.16	52.37	52.58	52.79	53.00	53.75
Max Power Voltage(Vmp) [V]	44.22	44.43	44.64	44.85	45.05	45.26
Short Circuit Current(Isc) [A]	15.28	15.33	15.39	15.44	15.50	15.55
Max Power Current(Imp) [A]	14.55	14.61	14.66	14.72	14.77	14.83

* For Nextrack installations, maximum static load please take compatibility approve letter between JA Solar and Nextrack 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*	3600Pa, 1.5
Maximum Static Load, Back*	1600Pa, 1.5
NOCT	45±2°C
Bifaciality	ϕP_{max} (80±10)%, ϕVoc (98±5)%, ϕIsc (80±10)%
Safety Class	Class II
Fire Safety Class	Class C

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

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