

Harvest the Sunshine

650W

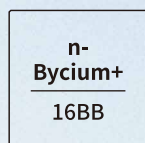


JA SOLAR

# JAM78D40 MB

n-type Double Glass Bifacial Modules

## Premium Cells



MBB Half-Cell Technology

26%



Cell Conversion Efficiency

## Premium Modules



Higher power generation better LCOE



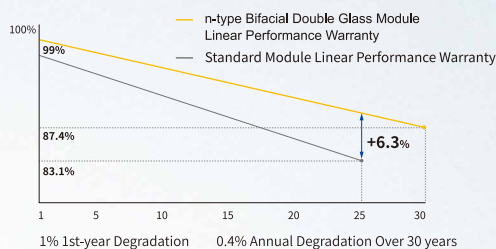
n-type with very Lower LID



Better Temperature Coefficient



Better low irradiance response



12-year product warranty



30-year linear power output warranty

## Comprehensive Certificates

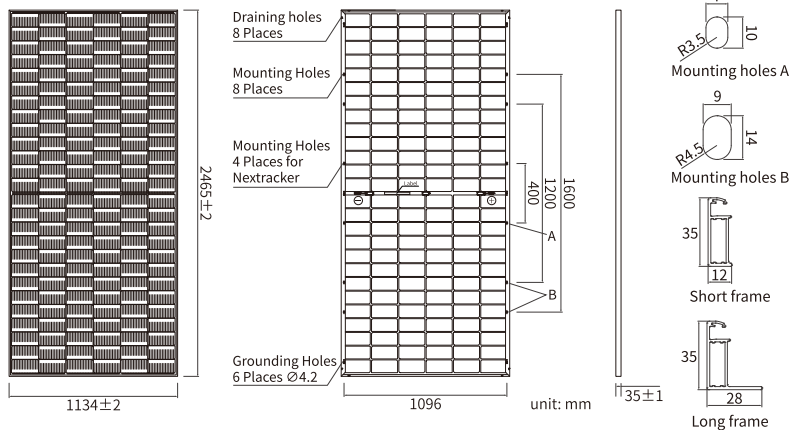
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

# JAM78D40 MB

n-type Double Glass Bifacial Modules



## MECHANICAL PARAMETERS

Cell	Mono
Weight	34.6kg
Dimensions	2465±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	156(6×26)
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	31pcs/Pallet, 496pcs/40HQ Container
Remark: customized frame color and cable length available upon request	

## ELECTRICAL PARAMETERS AT STC

TYPE	JAM78D40 625/MB	JAM78D40 630/MB	JAM78D40 635/MB	JAM78D40 640/MB	JAM78D40 645/MB	JAM78D40 650/MB
Rated Maximum Power(P <sub>max</sub> ) [W]	625	630	635	640	645	650
Open Circuit Voltage (V <sub>oc</sub> ) [V]	56.18	56.38	56.57	56.76	56.95	57.14
Maximum Power Voltage(V <sub>mp</sub> ) [V]	47.61	47.80	47.98	48.16	48.35	48.54
Short Circuit Current(I <sub>sc</sub> ) [A]	13.79	13.84	13.89	13.94	13.99	14.04
Maximum Power Current(I <sub>mp</sub> ) [A]	13.13	13.18	13.23	13.29	13.34	13.39
Module Efficiency [%]	22.4	22.5	22.7	22.9	23.1	23.3
Power Tolerance	0~+3%					
Temperature Coefficient of I <sub>sc</sub> (α <sub>Isc</sub> )	+0.045%/°C					
Temperature Coefficient of V <sub>oc</sub> (β <sub>Voc</sub> )	-0.250%/°C					
Temperature Coefficient of P <sub>max</sub> (γ <sub>Pmp</sub> )	-0.290%/°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.

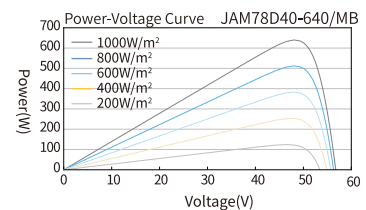
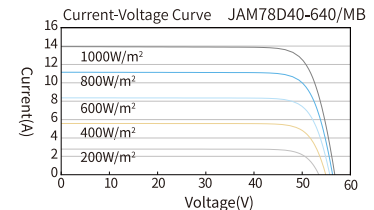
## ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM78D40 625/MB	JAM78D40 630/MB	JAM78D40 635/MB	JAM78D40 640/MB	JAM78D40 645/MB	JAM78D40 650/MB
Rated Max Power(P <sub>max</sub> ) [W]	675	680	686	691	697	702
Open Circuit Voltage(V <sub>oc</sub> ) [V]	56.18	56.38	56.57	56.76	56.95	57.14
Max Power Voltage(V <sub>mp</sub> ) [V]	47.61	47.80	47.98	48.16	48.35	48.54
Short Circuit Current(I <sub>sc</sub> ) [A]	14.89	14.95	15.00	15.06	15.11	15.16
Max Power Current(I <sub>mp</sub> ) [A]	14.18	14.24	14.29	14.35	14.41	14.46
Irradiation Ratio (rear/front)	10%					

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

\*\* Bifaciality=P<sub>max</sub>, rear/Rated P<sub>max</sub>, front

## 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%±10%
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-20240823A