Harvest the Sunshine

650W

JA SOLAR

JAM78D40 MB

n-type Double Glass Bifacial Modules

Premium Cells

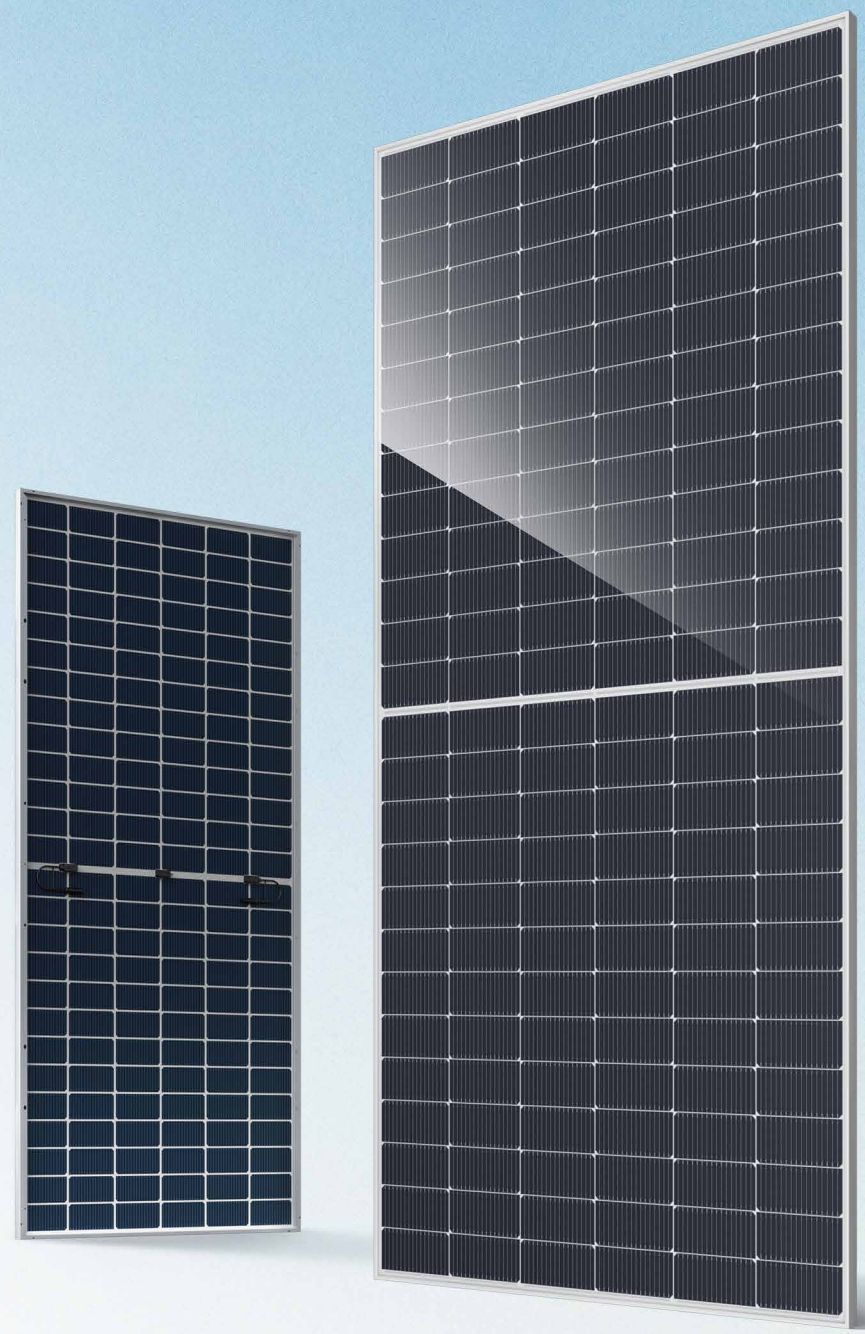
n-Bycium+ 16BB

MBB Half-Cell Technology

26%

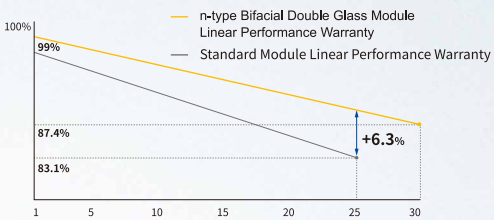
Up To

Cell Conversion Efficiency



Premium Modules

- Higher power generation better LCOE
- n-type with very Lower LID
- Better Temperature Coefficient
- Better low irradiance response



1% 1st-year Degradation

0.4% Annual Degradation Over 30 years

12 12-year product warranty

30 30-year linear power output warranty

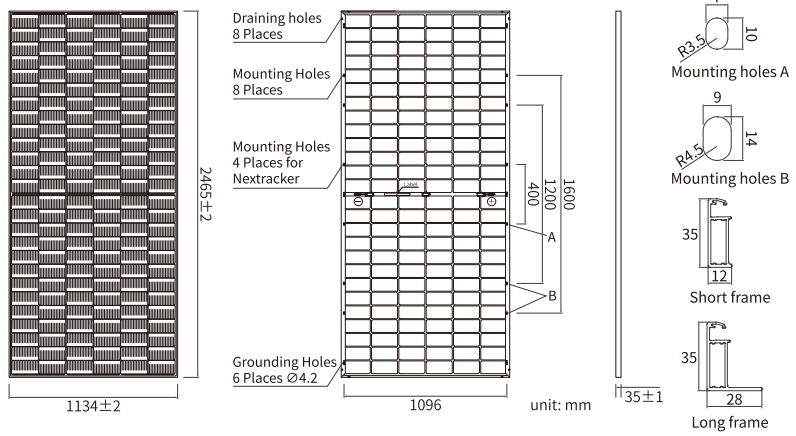
Comprehensive Certificates

- 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

DEEP BLUE 4.0 Pro



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

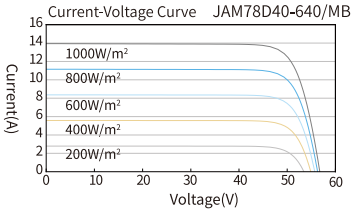
Remark: customized frame color and cable length available upon request

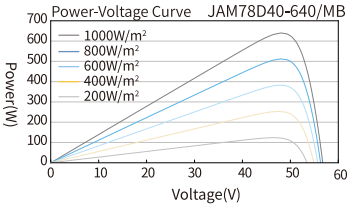
ELECTRICAL PARAMETERS AT STC

TYPE	JAM78D40 625/MB	JAM78D40 630/MB	JAM78D40 635/MB	JAM78D40 640/MB	JAM78D40 645/MB	JAM78D40 650/MB
Rated Maximum Power(Pmax) [W]	625	630	635	640	645	650
Open Circuit Voltage (Voc) [V]	56.18	56.38	56.57	56.76	56.95	57.14
Maximum Power Voltage(Vmp) [V]	47.61	47.80	47.98	48.16	48.35	48.54
Short Circuit Current(Isc) [A]	13.79	13.84	13.89	13.94	13.99	14.04
Maximum Power Current(Imp) [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 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.

CHARACTERISTICS





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(Pmax) [W]	675	680	686	691	697	702
Open Circuit Voltage(Voc) [V]	56.18	56.38	56.57	56.76	56.95	57.14
Max Power Voltage(Vmp) [V]	47.61	47.80	47.98	48.16	48.35	48.54
Short Circuit Current(Isc) [A]	14.89	14.95	15.00	15.06	15.11	15.16
Max Power Current(Imp) [A]	14.18	14.24	14.29	14.35	14.41	14.46
Irradiation Ratio (rear/front)	10%					

* For Nextracker installations, maximum static load please take compatibility approve letter between JA Solar and Nextracker for reference.
** Bifaciality=Pmax, rear/Rated Pmax, front

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

JA SOLAR

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

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