

# Harvest the Sunshine

# JA SOLAR

# 640W



## JAM78D40 MB n-type Double Glass Bifacial Modules

### Premium Cells

n-  
Bycium+  
16BB

MBB Half-Cell  
Technology

# 26%

Up To

Cell Conversion  
Efficiency

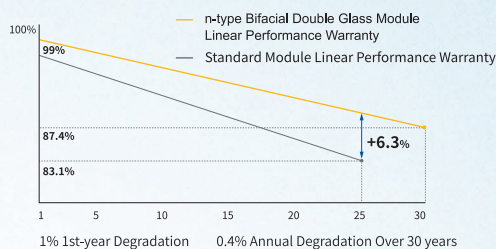
### Premium Modules

Higher power  
generation better LCOE

LID n-type with very  
Lower LID

Better Temperature  
Coefficient

Better low irradiance  
response

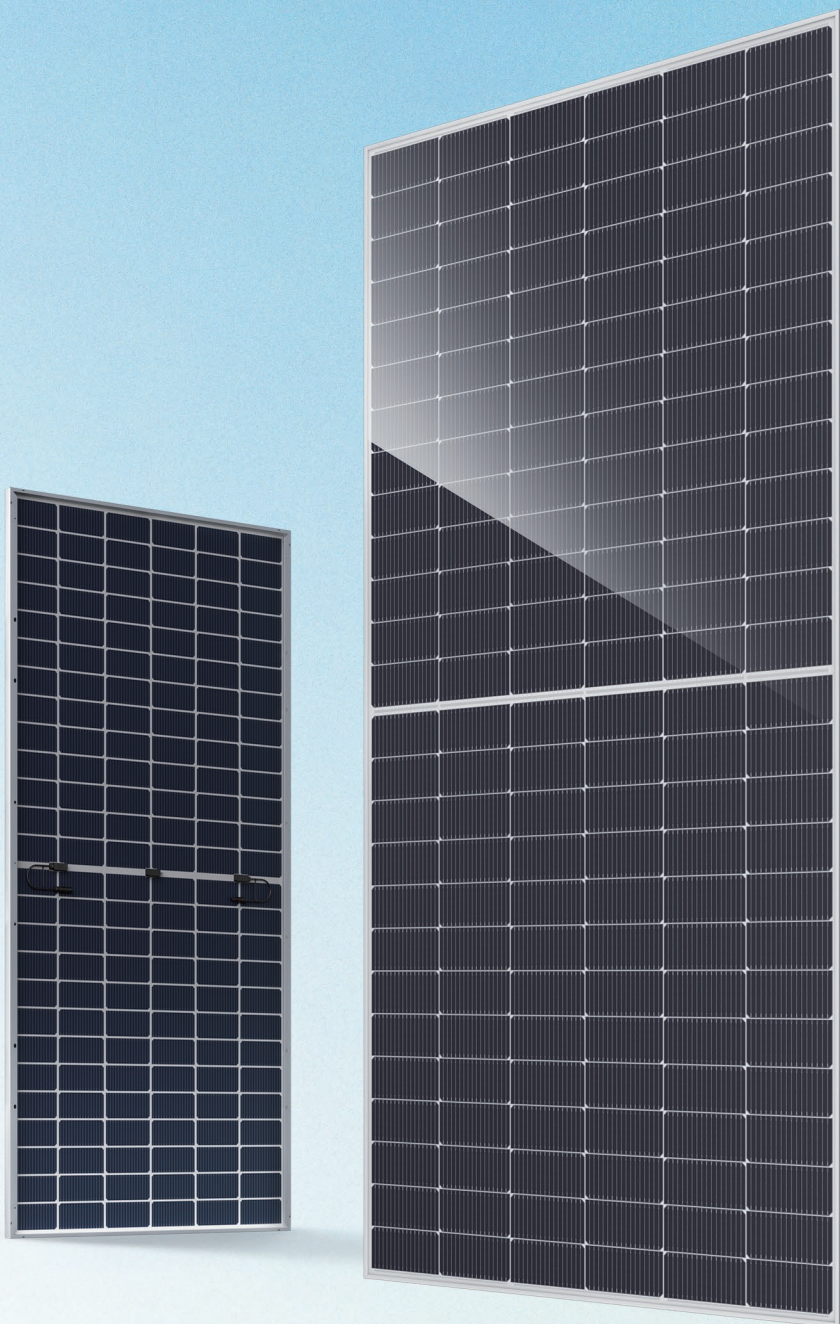


12-year product warranty

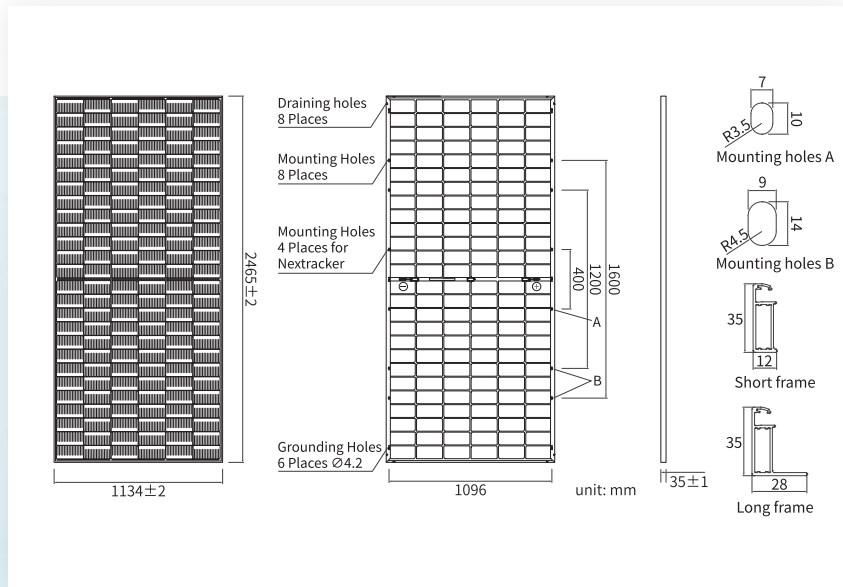
30-year linear power output warranty

### 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



### MECHANICAL PARAMETERS

Cell	Mono
Weight	34.6kg
Dimensions	2465±2mm × 1134±2mm × 35±1mm
Cable Cross Section Size	4mm <sup>2</sup> (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 615/MB	JAM78D40 620/MB	JAM78D40 625/MB	JAM78D40 630/MB	JAM78D40 635/MB	JAM78D40 640/MB
Rated Maximum Power(Pmax) [W]	615	620	625	630	635	640
Open Circuit Voltage (Voc) [V]	55.79	55.99	56.18	56.38	56.57	56.76
Maximum Power Voltage(Vmp) [V]	47.24	47.43	47.61	47.80	47.98	48.16
Short Circuit Current(Isc) [A]	13.69	13.74	13.79	13.84	13.89	13.94
Maximum Power Current(Imp) [A]	13.02	13.07	13.13	13.18	13.23	13.29
Module Efficiency [%]	22.0	22.2	22.4	22.5	22.7	22.9
Power Tolerance	0~+3%					
Temperature Coefficient of Isc(α <sub>Isc</sub> )	+0.045%/°C					
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.250%/°C					
Temperature Coefficient of Pmax(γ <sub>Pmp</sub> )	-0.290%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , 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.

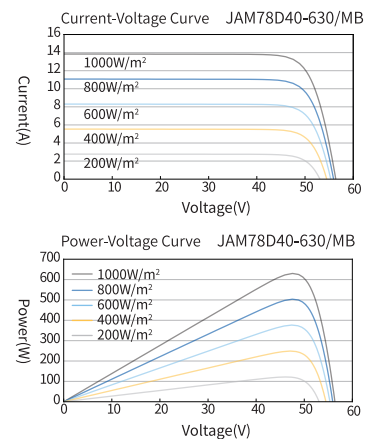
### ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM78D40 615/MB	JAM78D40 620/MB	JAM78D40 625/MB	JAM78D40 630/MB	JAM78D40 635/MB	JAM78D40 640/MB
Rated Max Power(Pmax) [W]	664	670	675	680	686	691
Open Circuit Voltage(Voc) [V]	55.79	55.99	56.18	56.38	56.57	56.76
Max Power Voltage(Vmp) [V]	47.24	47.43	47.61	47.80	47.98	48.16
Short Circuit Current(Isc) [A]	14.79	14.84	14.89	14.95	15.00	15.06
Max Power Current(Imp) [A]	14.06	14.12	14.18	14.24	14.29	14.35
Irradiation Ratio (rear/front)	10%					

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

\*\* Bifaciality=Pmax, rear/Rated Pmax, 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/ft <sup>2</sup> )
Maximum Static Load, Back*	2400Pa(50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Bifaciality**	80%±10%
Safety Class	Class II
Fire Performance	UL Type 29/Class C