

# 580W **MB** Series

 Higher power generation better LCOE

 n-type with very Lower LID

 Better Temperature Coefficient

 Better low irradiance response

 12-year product warranty

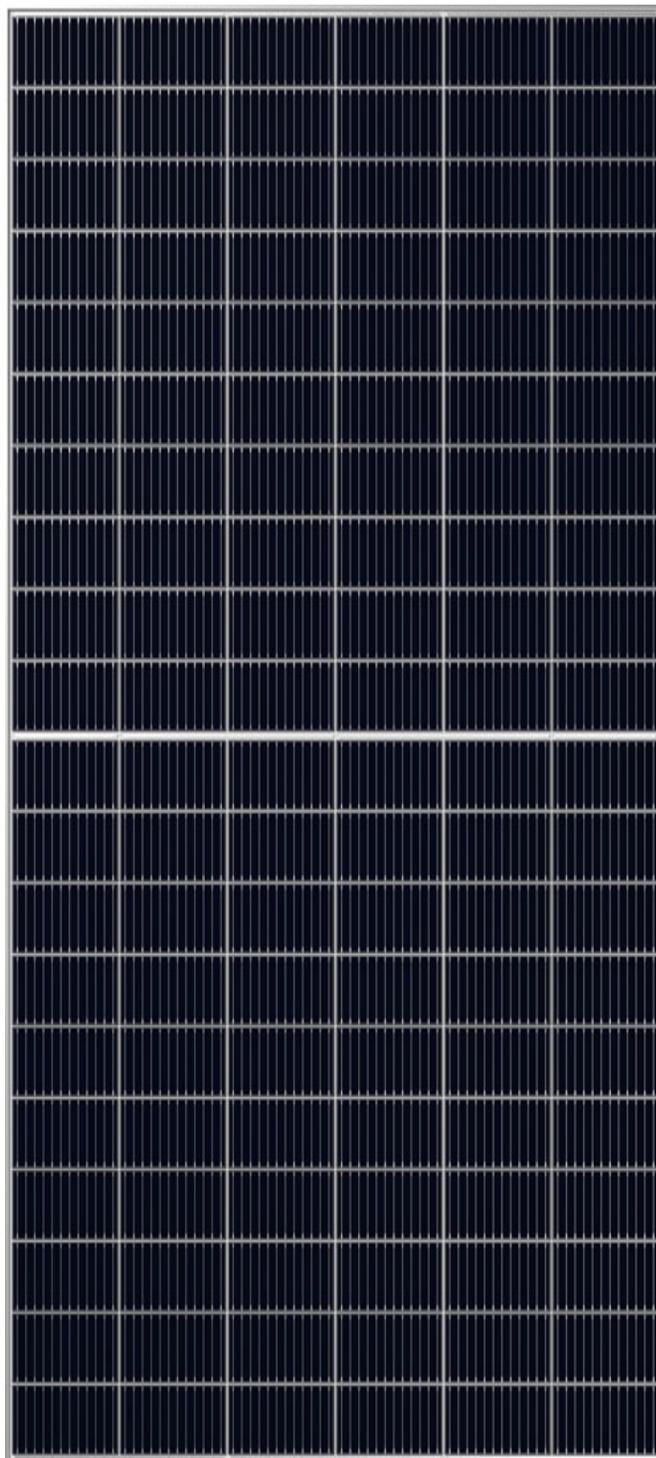
 30-year linear power output warranty

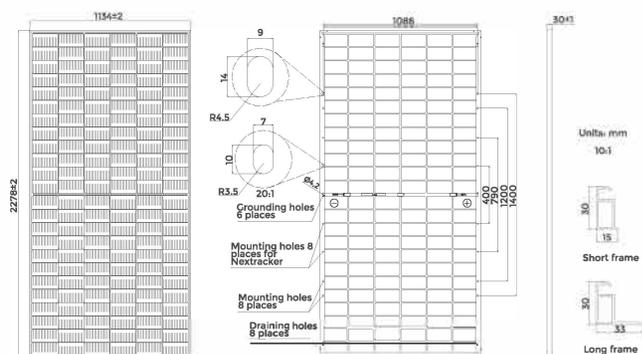
**n-type Bifacial Double Glass  
High Efficiency Mono Module  
M72D40 MB**

# 555-580

## 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





Remark: customized frame color and cable length available upon request

Cell	Mono-16BB
Weight	31.8kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-35I/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); 800mm(+)/800mm(-)(Leapfrog) Landscape: 1300mm(+)/1300mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

### ELECTRICAL PARAMETERS AT STC

TYPE	M72D40 -555/MB	M72D40 -560/MB	M72D40 -565/MB	M72D40 -570/MB	M72D40 -575/MB	M72D40 -580/MB
Rated Maximum Power(P <sub>max</sub> ) [W]	555	560	565	570	575	580
Open Circuit Voltage(V <sub>oc</sub> ) [V]	50.85	51.08	51.30	51.52	51.73	51.95
Maximum Power Voltage(V <sub>mp</sub> ) [V]	43.00	43.21	43.42	43.62	43.82	44.02
Short Circuit Current(I <sub>sc</sub> ) [A]	13.59	13.64	13.69	13.74	13.79	13.84
Maximum Power Current(I <sub>mp</sub> ) [A]	12.91	12.96	13.01	13.07	13.12	13.17
Module Efficiency [%]	21.5	21.7	21.9	22.1	22.3	22.5
Power Tolerance	0~+5W					
Temperature Coefficient of I <sub>sc</sub> (α <sub>Isc</sub> )	+0.046%/°C					
Temperature Coefficient of V <sub>oc</sub> (β <sub>Voc</sub> )	-0.260%/°C					
Temperature Coefficient of P <sub>max</sub> (γ <sub>Pmp</sub> )	-0.300%/°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	M72D40 -555/MB	M72D40 -560/MB	M72D40 -565/MB	M72D40 -570/MB	M72D40 -575/MB	M72D40 -580/MB
Rated Max Power(P <sub>max</sub> ) [W]	599	605	610	616	621	626
Open Circuit Voltage(V <sub>oc</sub> ) [V]	50.58	51.08	51.30	51.52	51.73	51.95
Max Power Voltage(V <sub>mp</sub> ) [V]	43.00	43.21	43.42	43.62	43.82	44.02
Short Circuit Current(I <sub>sc</sub> ) [A]	14.68	14.73	14.79	14.84	14.89	14.95
Max Power Current(I <sub>mp</sub> ) [A]	13.94	14.00	14.05	14.11	14.17	14.23
Irradiation Ratio (rear/front)	10%					

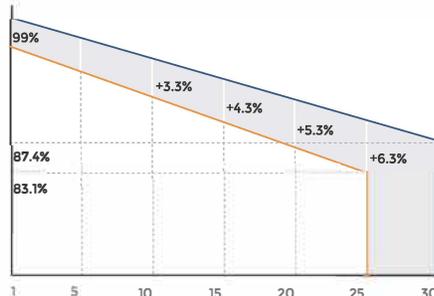
\*For NextTracker installations, maximum static load please take compatibility approve letter between JA Solar and NextTracker for reference.

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

### CHARACTERISTICS

### SUPERIOR WARRANTY

1% 1st-year Degradation  
0.4% Annual Degradation Over 30 years

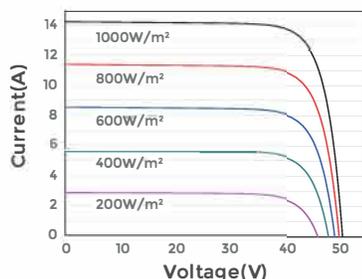


• n-type Bifacial Double Glass Module Linear Performance Warranty  
• Standard Module Linear Performance Warranty

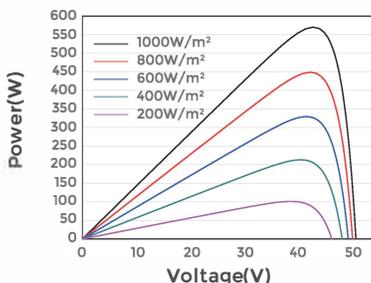
### OPERATING CONDITIONS

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%
Fire Performance	UL Type 29

Current-Voltage Curve **M72D40-570/MB**



Power-Voltage Curve **M72D40-570/MB**



Current-Voltage Curve **M72D40-570/MB**

