JA SOLAR | DEEP BLUE 4.0 Pro

Version No. : Global-EN-20231201 A

590W 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 JAM66D42 MB

565-590

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

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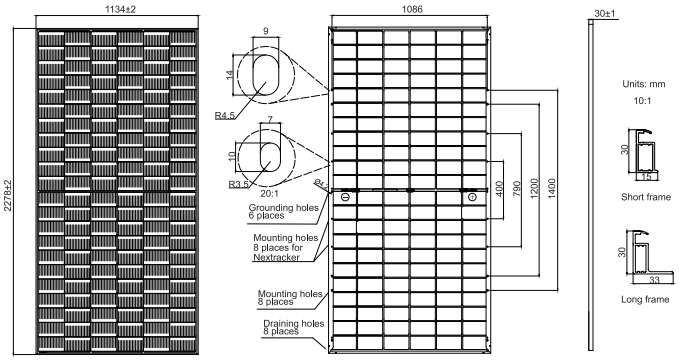
Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.

590W

565-590 MB Series

JAM66D42



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	4mm² (IEC), 12 AWG(UL)
No. of cells	132(6×22)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EVO2A
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

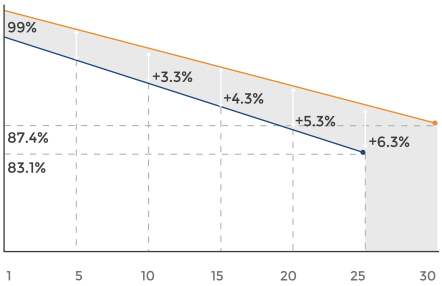
ELECTRICAL PARAMETERS AT STC

TYPE	JAM66D42 -565/MB	JAM66D42 -570/MB	JAM66D42 -575/MB	JAM66D42 -580/MB	JAM66D42 -585/MB	JAM66D42 -590/MB
Rated Maximum Power(Pmax) [W]	565	570	575	580	585	590
Open Circuit Voltage(Voc) [V]	47.58	47.78	47.98	48.18	48.38	48.58
Maximum Power Voltage(Vmp) [V]	39.79	40.00	40.21	40.42	40.63	40.84
Short Circuit Current(Isc) [A]	15.06	15.11	15.16	15.21	15.26	15.31
Maximum Power Current(Imp) [A]	14.20	14.25	14.30	14.35	14.40	14.45
Module Efficiency [%]	21.9	22.1	22.3	22.5	22.6	22.8
Power Tolerance	0~+5W					
Temperature Coefficient of Isc(α_Isc)	+0.046%/℃					
Temperature Coefficient of Voc(β_Voc)	-0.260%/℃					
Temperature Coefficient of Pmax(γ_Pmp)	-0.300%/℃					
STC	Irradiance 1000W/m², cell temperature 25℃, 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.

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

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM66D42 -565/MB	JAM66D42 -570/MB	JAM66D42 -575/MB	JAM66D42 -580/MB	JAM66D42 -585/MB	JAM66D42 -590/MB
Rated Max Power(Pmax) [W]	610	616	621	626	632	637
Open Circuit Voltage(Voc) [V]	47.58	47.78	47.98	48.18	48.38	48.58
Max Power Voltage(Vmp) [V]	39.79	40.00	40.21	40.42	40.63	40.84
Short Circuit Current(Isc) [A]	16.26	16.32	16.37	16.43	16.48	16.53
Max Power Current(Imp) [A]	15.34	15.39	15.44	15.50	15.55	15.61
Irradiation Ratio (rear/front)	10%					

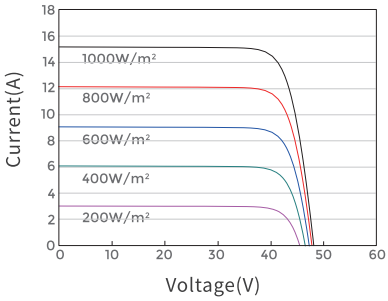
*For Nextracker installations, maximum static load please take compatibility approve letter between JA Solar and Nextracker for reference.
**Bifaciality=Pmax,rear/Rated Pmax,front

OPERATING CONDITIONS

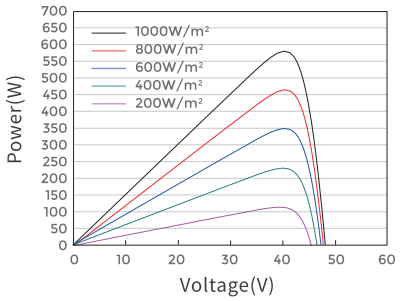
Maximum System Voltage	1500V DC
Operating Temperature	-40℃~+85℃
Maximum Series Fuse Rating	30A
Maximum Static Load,Front*	5400Pa(112 lb/ft²)
Maximum Static Load,Back*	2400Pa(50 lb/ft²)
NOCT	45±2℃
Bifaciality**	80%±10%
Fire Performance	UL Type 29

CHARACTERISTICS

Current-Voltage Curve **JAM66D42-580/MB**



Power-Voltage Curve **JAM66D42-580/MB**



Current-Voltage Curve **JAM66D42-580/MB**