

620W

MB
Series



Higher power generation better LCOE



n-type with very low LID



Better low irradiance response



Better temperature coefficient



12-year product warranty



30-year linear power output warranty

n-type Bifacial Double Glass High Efficiency Mono Module JAM78D40 MB/1500V

600-625

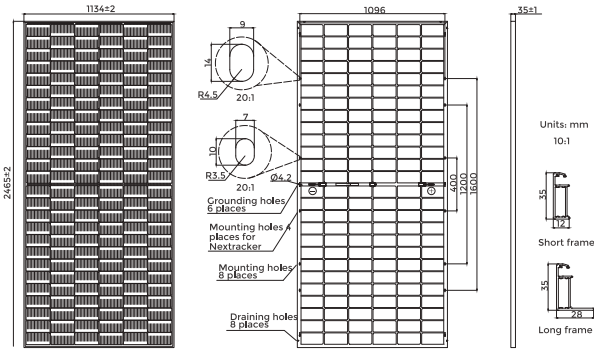
Comprehensive Certificates

- 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





600-625
 JAM78D40



Remark: customized frame color and cable length available upon request

Cell	Mono-16BB
Weight	34.6kg
Dimensions	2465±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	156(6×26)
Junction Box	IP68, 3 diodes
Connector	Stäubli MC4-EVO2A QC Solar QC 4.10-351/QC 4.10-35
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); 800mm(+)/800mm(-)(Leapfrog) Landscape: 1500mm(+)/1500mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Country of Manufacturer	China/Vietnam

ELECTRICAL PARAMETERS AT STC

TYPE	JAM78D40-600/MB/1500V	JAM78D40-605/MB/1500V	JAM78D40-610/MB/1500V	JAM78D40-615/MB/1500V	JAM78D40-620/MB/1500V	JAM78D40-625/MB/1500V
Rated Maximum Power(Pmax) [W]	600	605	610	615	620	625
Open Circuit Voltage(Voc) [V]	55.18	55.38	55.59	55.79	55.99	56.18
Maximum Power Voltage(Vmp) [V]	46.66	46.86	47.05	47.24	47.43	47.61
Short Circuit Current(Isc) [A]	13.54	13.59	13.64	13.69	13.74	13.79
Maximum Power Current(Imp) [A]	12.86	12.91	12.97	13.02	13.07	13.13
Module Efficiency [%]	21.5	21.6	21.8	22.0	22.2	22.4
Power Tolerance	0~+5W					
Temperature Coefficient of Isc(α _{Isc})	+0.046%/°C					
Temperature Coefficient of Voc(β _{Voc})	-0.260%/°C					
Temperature Coefficient of Pmax(γ _{Pmp})	-0.300%/°C					
STC	Irradiance 1000W/m ² , 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.
 Measurement tolerance at STC: Pmax ±3%, Voc ±3% and Isc ±5%.

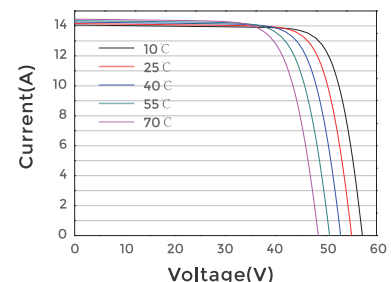
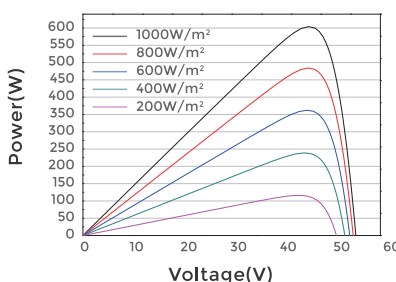
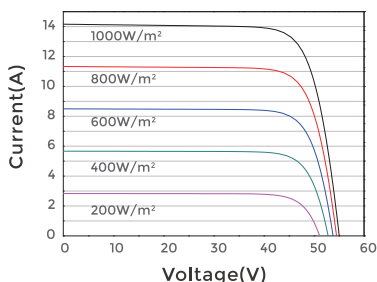
ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM78D40-600/MB/1500V	JAM78D40-605/MB/1500V	JAM78D40-610/MB/1500V	JAM78D40-615/MB/1500V	JAM78D40-620/MB/1500V	JAM78D40-625/MB/1500V
Rated Max Power(Pmax) [W]	648	653	659	664	670	675
Open Circuit Voltage(Voc) [V]	55.18	55.38	55.59	55.79	55.99	56.18
Max Power Voltage(Vmp) [V]	46.66	46.86	47.05	47.24	47.43	47.61
Short Circuit Current(Isc) [A]	14.62	14.68	14.73	14.79	14.84	14.89
Max Power Current(Imp) [A]	13.89	13.95	14.00	14.06	14.12	14.18
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

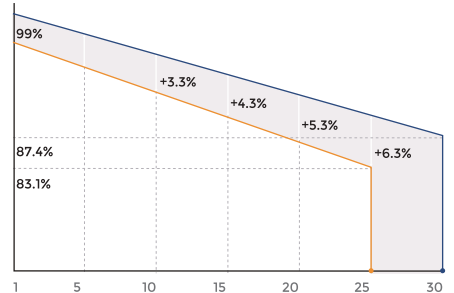
CHARACTERISTICS

Current-Voltage Curve **JAM78D40-610/MB/1500V** Power-Voltage Curve **JAM78D40-610/MB/1500V** Current-Voltage Curve **JAM78D40-610/MB/1500V**



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*	3600Pa, 1.5
Maximum Static Load,Back*	1600Pa, 1.5
NOCT	45±2°C
Bifaciality**	80%±10%
Fire Safety Class	Class C