

DEEP BLUE 4.0

Mono

580W n-type Bifacial Double Glass
High Efficiency Mono Module

JAM72D40 555-580/MB/1500V Series

Introduction

Power by the latest SMBB n-type solar cell, half-cell configuration, these modules have higher output power, lower LID, better weak illumination response, and better temperature coefficient.



Higher power generation
better LCOE



Better weak illumination response



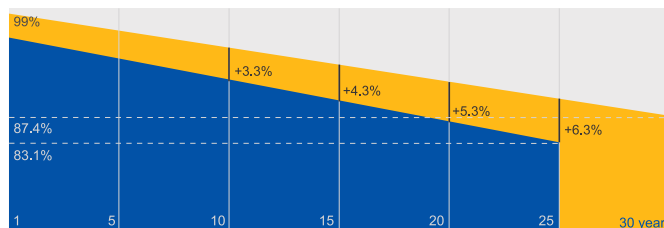
Better Temperature Coefficient

Superior Warranty

- 12-year product warranty
- 30-year linear power output 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

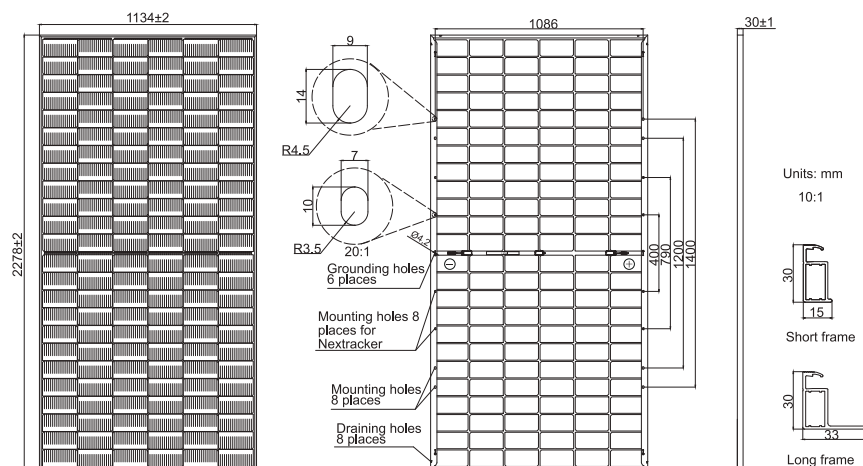
Comprehensive Certificates

- 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



MECHANICAL DIAGRAMS

SPECIFICATIONS



Cell	Mono-16BB
Weight	31.8kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	Stäubli MC4-EVO2A
Cable Length (Including Connector)	QC Solar QC 4.10-351 Portrait: 200mm(+)/300mm(-); 800mm(+)/800mm(-)(Leapfrog) Landscape: 1300mm(+)/1300mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Country of Manufacturer	China/Vietnam

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D40 -555/MB/1500V	JAM72D40 -560/MB/1500V	JAM72D40 -565/MB/1500V	JAM72D40 -570/MB/1500V	JAM72D40 -575/MB/1500V	JAM72D40 -580/MB/1500V
Rated Maximum Power(P _{max}) [W]	555	560	565	570	575	580
Open Circuit Voltage(V _{oc}) [V]	50.55	50.70	50.85	51.00	51.15	51.30
Maximum Power Voltage(V _{mp}) [V]	42.24	42.40	42.55	42.70	42.85	43.03
Short Circuit Current(I _{sc}) [A]	14.02	14.09	14.16	14.23	14.30	14.36
Maximum Power Current(I _{mp}) [A]	13.14	13.21	13.28	13.35	13.42	13.48
Module Efficiency [%]	21.5	21.7	21.9	22.1	22.3	22.5
Power Tolerance	0~+5W					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.046%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.260%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.300%/°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.

Measurement tolerance at STC: P_{max} ±3 %, V_{oc} ±3% and I_{sc} ±4%.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

OPERATING CONDITIONS

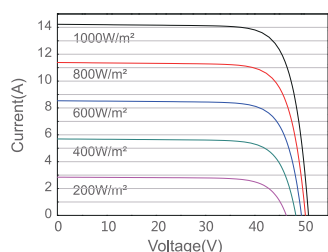
TYPE	JAM72D40-555/MB/1500V	JAM72D40-560/MB/1500V	JAM72D40-565/MB/1500V	JAM72D40-570/MB/1500V	JAM72D40-575/MB/1500V	JAM72D40-580/MB/1500V	Maximum System Voltage	1500V DC
Rated Max Power(Pmax) [W]	599	605	610	616	621	626	Operating Temperature	-40°C~+85°C
Open Circuit Voltage(Voc) [V]	50.58	50.73	50.88	51.03	51.16	51.30	Maximum Series Fuse Rating	30A
Max Power Voltage(Vmp) [V]	42.24	42.39	42.55	42.70	42.86	43.02	Maximum Static Load,Front* Maximum Static Load,Back*	3600Pa, 1.5 1600Pa, 1.5
Short Circuit Current(Isc) [A]	15.14	15.22	15.29	15.37	15.44	15.51	NOCT	45±2°C
Max Power Current(Imp) [A]	14.19	14.27	14.34	14.42	14.49	14.56	Bifaciality**	80%±10%
Irradiation Ratio (rear/front)							10%	
							Fire Safety Class	Class C
*For Nextracker installations, maximum static load please take compatibility approve letter between JA Solar and Nextracker for reference.								

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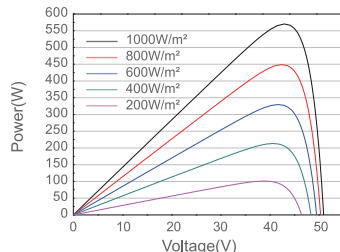
**Bifaciality=P_{max, rear}/Rated P_{max, front}

CHARACTERISTICS

Current-Voltage Curve JAM72D40-570/MB/1500V



Power-Voltage Curve JAM72D40-570/MB/1500V



Current-Voltage Curve JAM72D40-570/MB/1500V

