

DEEP BLUE 4.0

Mono

580W n-type Bifacial Double Glass
High Efficiency Mono Module
JAM72D40 555-580/GB Series

Introduction

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



Higher power generation
better LCOE



n-type with very Lower LID



Better weak illumination response



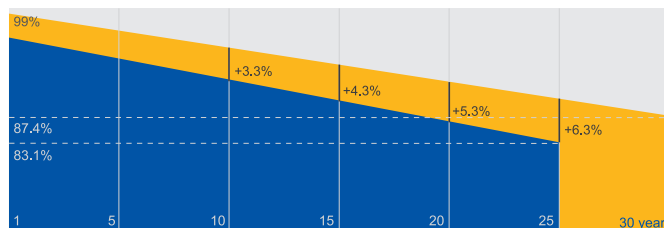
Better Temperature Coefficient

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

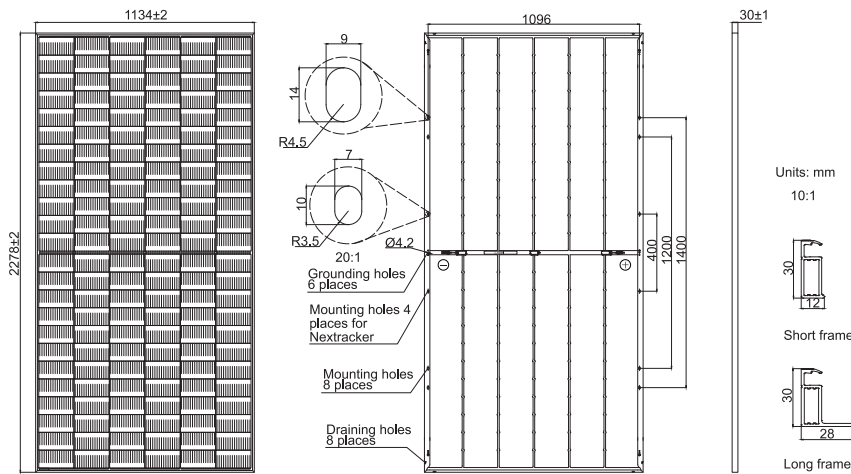
■ Standard Module Linear Performance Warranty

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
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

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 | QC 4.10-351/ MC4-EVO2A |
| Cable Length (Including Connector) | Portrait:200mm(+)/300mm(-); Landscape:1300mm(+)/1300mm(-) |
| Front Glass/Back Glass | 2.0mm/2.0mm |
| Packaging Configuration | 36pcs/Pallet, 720pcs/40HQ Container |

ELECTRICAL PARAMETERS AT STC

| TYPE | JAM72D40 -555/GB | JAM72D40 -560/GB | JAM72D40 -565/GB | JAM72D40 -570/GB | JAM72D40 -575/GB | JAM72D40 -580/GB |
|--|---|------------------|------------------|------------------|------------------|------------------|
| Rated Maximum Power(Pmax) [W] | 555 | 560 | 565 | 570 | 575 | 580 |
| Open Circuit Voltage(Voc) [V] | 50.55 | 50.70 | 50.85 | 51.00 | 51.15 | 51.30 |
| Maximum Power Voltage(Vmp) [V] | 42.24 | 42.40 | 42.55 | 42.70 | 42.85 | 43.03 |
| Short Circuit Current(Isc) [A] | 14.02 | 14.09 | 14.16 | 14.23 | 14.30 | 14.36 |
| Maximum Power Current(Imp) [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 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.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

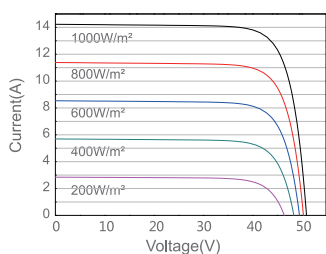
OPERATING CONDITIONS

| TYPE | JAM72D40 -555/GB | JAM72D40 -560/GB | JAM72D40 -565/GB | JAM72D40 -570/GB | JAM72D40 -575/GB | JAM72D40 -580/GB | 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* | 5400Pa(112 lb/ft ²) |
| Short Circuit Current(Isc) [A] | 15.14 | 15.22 | 15.29 | 15.37 | 15.44 | 15.51 | Maximum Static Load,Back* | 2400Pa(50 lb/ft ²) |
| Max Power Current(Imp) [A] | 14.19 | 14.27 | 14.34 | 14.42 | 14.49 | 14.56 | NOCT | 45±2°C |
| Irradiation Ratio (rear/front) | 10% | | | | | | Bifaciality** | 80%±10% |
| | | | | | | | Fire Performance | UL Type 29 |

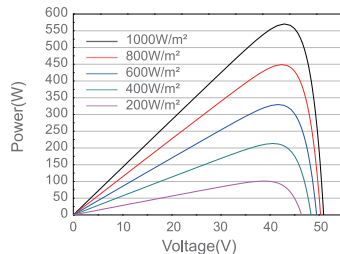
*For Nextacker installations, maximum static load please take compatibility approve letter between JA Solar and Nextacker for reference.
 **Bifaciality=Pmax,rear/Rated Pmax,front

CHARACTERISTICS

Current-Voltage Curve JAM72D40-570/GB



Power-Voltage Curve JAM72D40-570/GB



Current-Voltage Curve JAM72D40-570/GB

