

## DEEP BLUE 4.0 Pro

**Mono**

600W n-type Bifacial Double Glass  
High Efficiency Mono Module  
JAM72D40 575-600/LB/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



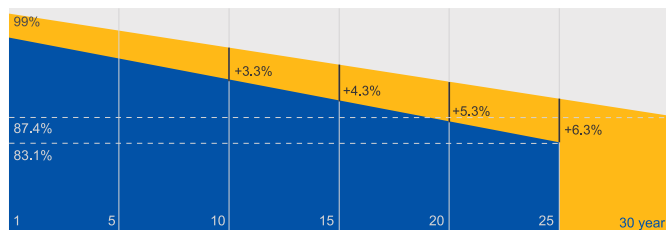
Better Temperature Coefficient

### 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

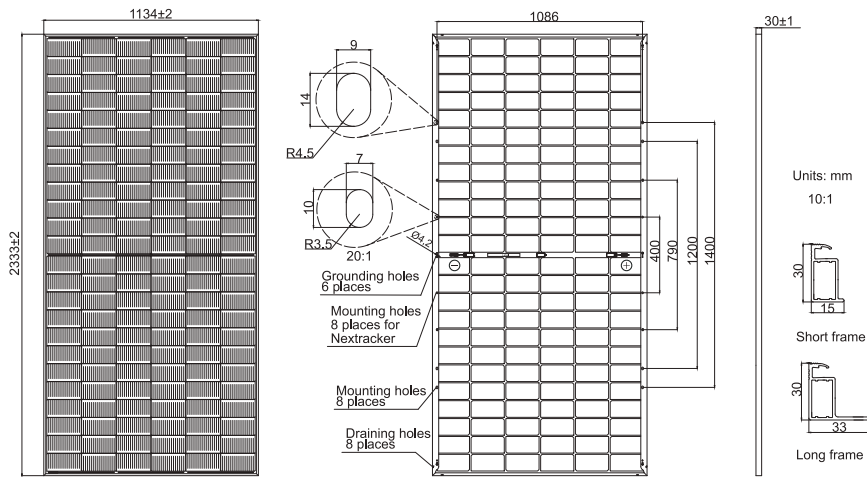
### Comprehensive Certificates

- 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	32.5kg
Dimensions	2333±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	Stäubli MC4-EVO2A/MC4-EVO2 QC Solar QC 4.10-351/QC 4.10-35
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) 800mm(+)/800mm(-)(Leapfrog) Landscape: 1400mm(+)/1400mm(-)
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	JAM72D40-575/LB/1500V	JAM72D40-580/LB/1500V	JAM72D40-585/LB/1500V	JAM72D40-590/LB/1500V	JAM72D40-595/LB/1500V	JAM72D40-600/LB/1500V
Rated Maximum Power(Pmax) [W]	575	580	585	590	595	600
Open Circuit Voltage(Voc) [V]	51.40	51.60	51.80	52.00	52.20	52.40
Maximum Power Voltage(Vmp) [V]	42.88	43.06	43.24	43.41	43.59	43.76
Short Circuit Current(Isc) [A]	14.16	14.23	14.29	14.35	14.42	14.48
Maximum Power Current(Imp) [A]	13.41	13.47	13.53	13.59	13.65	13.71
Module Efficiency [%]	21.7	21.9	22.1	22.3	22.5	22.7
Power Tolerance	0~+5W					
Temperature Coefficient of Isc(α <sub>Isc</sub> )	+0.046%/°C					
Temperature Coefficient of Voc(β <sub>Voc</sub> )	-0.260%/°C					
Temperature Coefficient of Pmax(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. Measurement tolerance at STC: Pmax ±3%, Voc ±3% and Isc ±4%.

**ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO**

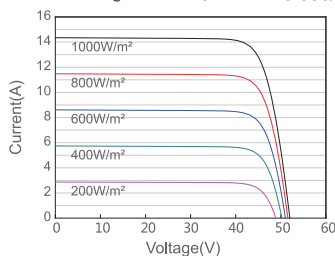
**OPERATING CONDITIONS**

TYPE	JAM72D40-575/LB/1500V	JAM72D40-580/LB/1500V	JAM72D40-585/LB/1500V	JAM72D40-590/LB/1500V	JAM72D40-595/LB/1500V	JAM72D40-600/LB/1500V	Maximum System Voltage	1500V DC
Rated Max Power(Pmax) [W]	621	626	632	637	643	648	Operating Temperature	-40°C~+85°C
Open Circuit Voltage(Voc) [V]	51.40	51.60	51.80	52.00	52.20	52.40	Maximum Series Fuse Rating	30A
Max Power Voltage(Vmp) [V]	42.88	43.06	43.24	43.41	43.59	43.76	Maximum Static Load,Front*	3600Pa, 1.5
Short Circuit Current(Isc) [A]	15.30	15.36	15.43	15.50	15.57	15.64	Maximum Static Load,Back*	1600Pa, 1.5
Max Power Current(Imp) [A]	14.48	14.55	14.61	14.68	14.74	14.81	NOCT	45±2°C
Irradiation Ratio (rear/front)	10%						Bifaciality**	80%±10%
							Fire Safety Class	Class C

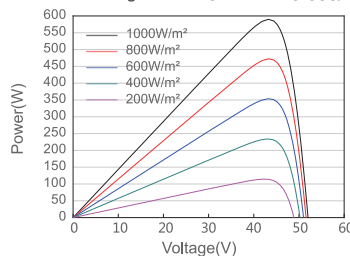
\*For NexTracker installations, maximum static load please take compatibility approve letter between JA Solar and NexTracker for reference.  
\*\*Bifaciality=Pmax, rear/Rated Pmax, front

**CHARACTERISTICS**

Current-Voltage Curve JAM72D40-590/LB/1500V



Power-Voltage Curve JAM72D40-590/LB/1500V



Current-Voltage Curve JAM72D40-590/LB/1500V

