

## JAP6(K)

-72/310-330/4BB

F 40-35

MULTICRYSTALLINE SILICON MODULE



### JA Solar Holdings Co., Ltd.

JA Solar Holdings Co., Ltd. is a world-leading manufacturer of high-performance photovoltaic products that convert sunlight into electricity for residential, commercial, and utility-scale power generation. The company was founded on May 18, 2005, and was publicly listed on NASDAQ on February 7, 2007. JA Solar is one of the world's largest producers of solar cells and modules. Its standard and high-efficiency product offerings are among the most powerful and cost-effective in the industry.

Address: Building No.8, Nuode Center, Automobile Museum East Road, Fengtai District, Beijing

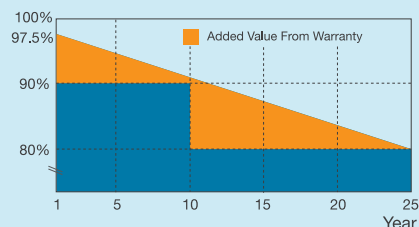
TEL: +86 (10) 63611888

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### Superior Warranty

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



### Key Features



JA 4BB design module reduce cell series resistance and stress between cell interconnectors improves module reliability and module conversion efficiency



High output, 16.99% highest conversion efficiency



Designed for DC IEC 1000V applications



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



Outstanding performance in low-light irradiance environments



Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)



High salt and ammonia resistance certified by TÜV NORD

### Reliable Quality

- Positive power tolerance: 0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system performance
- Potential Induced Degradation (PID) Resistant

### Comprehensive Certificates

- IEC 61215, IEC 61730, UL1703, CEC Listed, MCS and CE
- ISO 9001: 2008: Quality management systems
- ISO 14001: 2004: Environmental management systems
- BS OHSAS 18001: 2007: Occupational health and safety management systems
- Environmental policy: The first solar company in China to complete Intertek's carbon footprint evaluation program and receive green leaf mark verification for our products



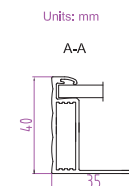
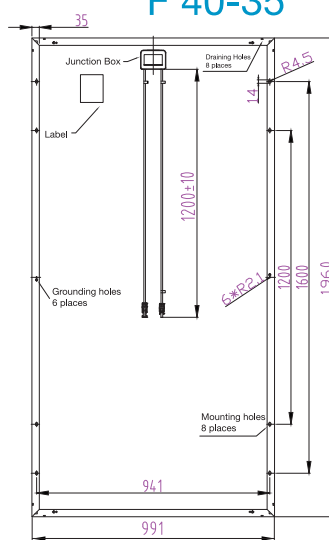
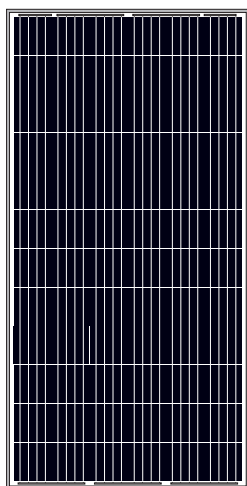
Specifications subject to technical changes and tests. JA Solar reserves the right of final interpretation.

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## Engineering Drawings

F 40-35

JA SOLAR



■ customized cable length available upon request

### MECHANICAL PARAMETERS

Cell (mm)	Poly 156.75x156.75
Weight (kg)	23 (approx)
Dimensions (LxWxH) (mm)	1960x991x40
Cable Cross Section Size (mm <sup>2</sup> )	4
No. of Cells and Connections	72 (6x12)
Junction Box	IP67, 3 diodes
Connector	MC4 Compatible
Packaging Configuration	27 Per Pallet

### WORKING CONDITIONS

Maximum System Voltage	DC 1000V (IEC)
Operating Temperature	-40°C~85°C
Maximum Series Fuse	15A
Maximum Static Load, Front (e.g., snow and wind)	5400Pa (112 lb/ft <sup>2</sup> )
Maximum Static Load, Back (e.g., wind)	2400Pa (50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Application Class	Class A

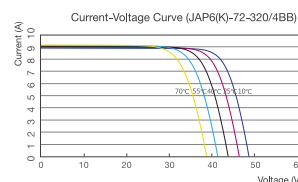
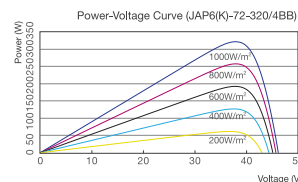
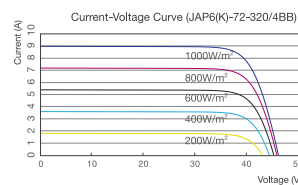
### ELECTRICAL PARAMETERS

TYPE	JAP6(K)-72-310/4BB	JAP6(K)-72-315/4BB	JAP6(K)-72-320/4BB	JAP6(K)-72-325/4BB	JAP6(K)-72-330/4BB
Rated Maximum Power at STC (W)	310	315	320	325	330
Open Circuit Voltage (V <sub>oc</sub> /V)	45.56	45.85	46.12	46.38	46.40
Maximum Power Voltage (V <sub>mp</sub> /V)	36.89	37.09	37.28	37.39	37.65
Short Circuit Current (I <sub>sc</sub> /A)	8.92	9.01	9.09	9.17	9.28
Maximum Power Current (I <sub>mp</sub> /A)	8.40	8.49	8.58	8.69	8.77
Module Efficiency [%]	15.96	16.22	16.48	16.73	16.99
Power Tolerance (W)	-0~+5W				
Temperature Coefficient of I <sub>sc</sub> (α <sub>Isc</sub> )	+0.058%/°C				
Temperature Coefficient of V <sub>oc</sub> (β <sub>Voc</sub> )	-0.330%/°C				
Temperature Coefficient of P <sub>max</sub> (γ <sub>Pmp</sub> )	-0.410%/°C				
STC	Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass 1.5				

### NOCT

TYPE	JAP6(K)-72-310/4BB	JAP6(K)-72-315/4BB	JAP6(K)-72-320/4BB	JAP6(K)-72-325/4BB	JAP6(K)-72-330/4BB
Max Power (P <sub>max</sub> ) [W]	225.06	228.69	232.32	235.95	239.58
Open Circuit Voltage (V <sub>oc</sub> ) [V]	41.63	41.84	42.04	42.24	42.41
Max Power Voltage (V <sub>mp</sub> ) [V]	33.87	34.00	34.19	34.37	34.58
Short Circuit Current (I <sub>sc</sub> ) [A]	7.03	7.08	7.14	7.20	7.25
Max Power Current (I <sub>mp</sub> ) [A]	6.65	6.73	6.80	6.87	6.93
Condition	Under Normal Operating Cell Temperature, Irradiance of 800 W/m <sup>2</sup> , spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s				

### I-V CURVE





## 25-Year Insurance Backed Warranty

In addition to our comprehensive Warranty Terms, JA Solar has purchased product warranty insurance to “back-stop” our product warranty. This insurance applies to our Limited Warranty and covers PV Modules against Product Defect and Performance output. This insurance program is purchased through our program manager, PowerGuard Specialty Insurance Services, and insured by the following reputable insurance companies:

- International Insurance Company of Hannover SE (A.M. Best Rating: A+ XV)  
www.inter-hannover.com
- RSUI Indemnity Company (A.M. Best Rating: A+ XIII)  
www.rsui.com

JA Solar customers, whose panels have been registered by us, will enjoy a global, irrevocable and immediate insurance-backed warranty which provides third-party rights to the insurance in case of insolvency or bankruptcy.

<b>\$4MM Aggregate Policy Limits Years 11-25</b>
SIR: \$100,000 per claim for worldwide sales, except Japan. Each and every loss paid by carrier and each and every loss within the SIR erodes the Limit of Liability by the loss amount.
<b>\$5MM Aggregate Policy Limits Years 1-10</b>
SIR: \$100,000 per claim for worldwide sales, except Japan. Each and every loss paid by carrier and each and every loss within the SIR erodes the Limit of Liability by the loss amount.

### Highlights:

- Immediate coverage (no waiting period)
- 25 - year non - cancellable term (even if JA Solar becomes insolvent or bankrupt)
- A.M. Best rated “A” XIII or better reputable insurance underwriters (enhanced bankability)
- Insurance Program insures JA Solar’s Limited Warranty, including PV Modules against Product Defect and Performance output
- Third - Party policy rights (satisfies investors/bankers requirements)
- For modules sold and reported during the policy period of January 1, 2018 to January 1, 2019

Please contact JA Solar’s Customer Service should you have any questions. In the unlikely event that JA Solar becomes insolvent, please e-mail to [claims@powerguardins.com](mailto:claims@powerguardins.com).

Serial number registration can be verified by simply visiting the PowerGuard’s Solar Panel Program Warranty Verification Portal <http://powerguardsnverify.com/>, on which you will be able to input panel serial numbers and to verify they have been reported and are eligible for coverage per the terms of JA Solar’s module manufacturers policy.

