

## Harvest the Sunshine

Premium Cells, Premium Modules

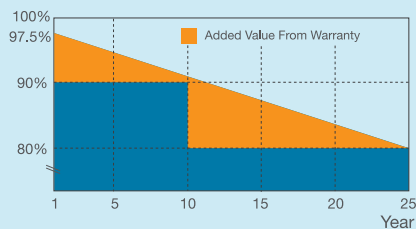
## JA Solar Holdings Co., Ltd.

JA Solar Holdings Co.,Ltd is a world leading manufacturer of high-performance solar power products that convert sunlight into electricity for residential, commercial and utility-scale power generation. The company was founded in May 2005 and publicly listed on NASDAQ in February 2007. JA Solar has been the world's leading cell producer since 2010, and has firmly established itself as a tier 1 module supplier since 2012. Capitalizing on our strength in solar cell technology, we are committed to provide modules with unparalleled conversion efficiency, yield efficiency, and reliability to enable you to maximize your returns on PV projects. With its leading industry experience, continuous effort on R&D, customer-oriented service and sound financial status, JA Solar is your best choice of long-term trustworthy partner.

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## Product Warranty

- 10-year product warranty
- 25-year linear power warranty



## Additional Insurance Options



## Partner Section

# JAP6 (SE)

60/260-280/4BB/RE

MULTICRYSTALLINE SILICON MODULE

## Key Features



JA high efficiency Multicrystalline smart modules designed for residential applications, especially for rooftop market



The latest high efficiency Black Silicon Multi-crystalline cells technology, >18.8% average mass production efficiency



Maximum energy gain ground mounted system: 2-5%, commercial 2-10%, residential 2-25%



Automatic module shut-down Unique electrocution prevention and fire safety



Flexible system design optimal site space utilization at reduced cost



Real-time alerts module-level web monitoring Increased uptime maintenance



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
- Potential Induced Degradation (PID) Resistant

## Comprehensive Certificates

- IEC 61215, IEC 61730, 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



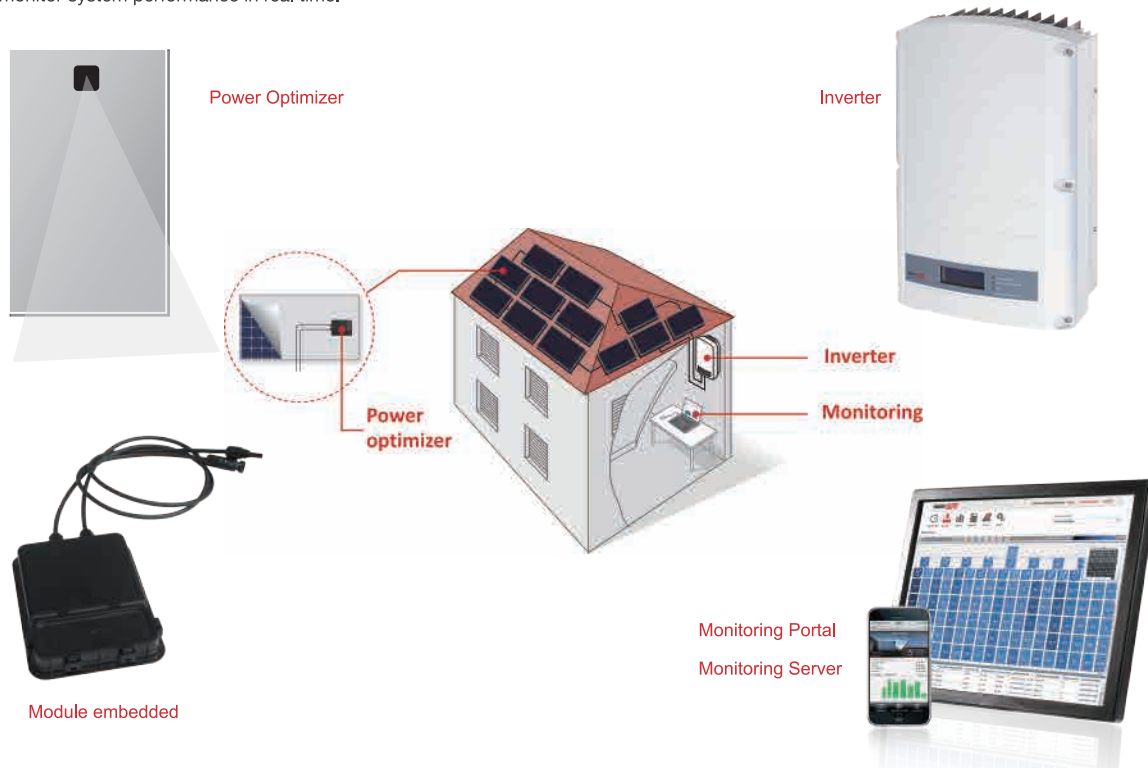
Specifications subject to technical changes and tests. JA Solar reserves the right of final interpretation.

# JAP6 (SE) 60/260-280/4BB/RE



## System Architecture

JA smart system components work together with any inverter to maximize energy harvest. JA smart modules can communicate by electrical line, allowing users to monitor system performance in real time.



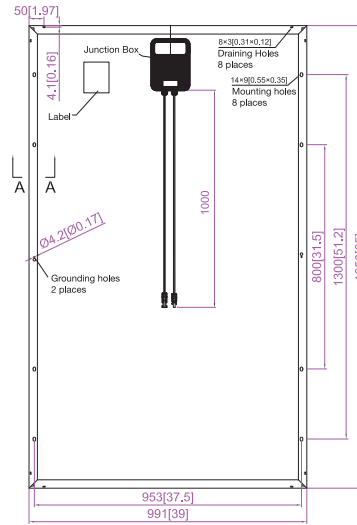
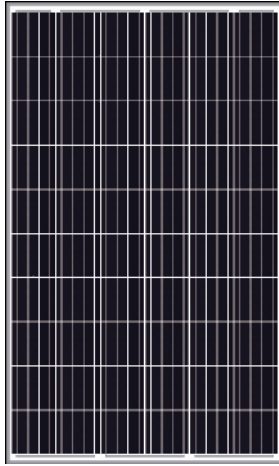
String Lengths (computed automatically by SolarEdge Site Designer)							
Module Power			260	265	270	275	280
MINIMUM string size with SolarEdge inverter	EU	1ph	8				
		3ph	16				
	US	1ph	8				
		3ph-208V	8				
		3ph-480V	16				
MAXIMUM string size with SolarEdge inverter	EU	1ph	20	19	19	19	18
		3ph	43	42	41	40	40
	US	1ph	20	19	19	19	18
		3ph-208V	23	22	22	21	21
		3ph-480V	49	48	47	46	45
String size with Non-SolarEdge			According to inverter design rules				

Output Voltages and Currents		
Operating Output Voltage when connected to SolarEdge Inverter	5-60	Vdc
Operating Output Voltage when connected to Non-SolarEdge Inverter	5-Voc of module	Vdc
Maximum Output Current when connected to SolarEdge Inverter	15	Adc
Maximum Output Current when connected to Non-SolarEdge Inverter	10	Adc
Output in Standby mode with SolarEdge inverter or with SMI and Non-SolarEdge inverter (when disconnected from inverter or inverter off)	1	Vdc

Standard Compliance	
Fire Safety	VDE-AR-E 2100-712:2013-05
PV Junction Box Safety	IEC62109-1 (class II safety, TUV-SUD), UL1741 (TUV-Rheinland & CSA)
PV Junction Box	EN50548 (TUV-SUD), UL3730 (TUV-Rheinland & CSA)

# JAP6 (SE) 60/260-280/4BB/RE

## Engineering Drawings



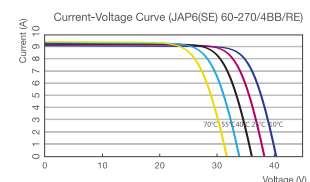
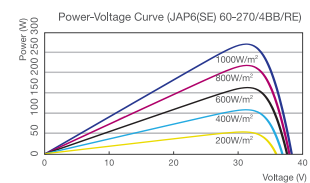
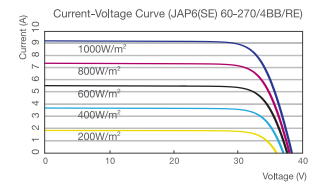
■ customized cable length available upon request

MECHANICAL PARAMETERS	
Cell (mm)	Poly 156x156
Weight (kg)	19.5 (approx)
Dimensions (L×W×H) (mm)	1650×991×40
Cable Cross Section Size (mm <sup>2</sup> )	4
No. of Cells and Connections	60 (6×10)
Junction Box	IP67, 3 diodes
Connector	MC4
Packaging Configuration	26 Per Pallet

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

TYPE	ELECTRICAL PARAMETERS				
	JAP6(SE)60-260/4BB/RE	JAP6(SE)60-265/4BB/RE	JAP6(SE)60-270/4BB/RE	JAP6(SE)60-275/4BB/RE	JAP6(SE)60-280/4BB/RE
Rated Maximum Power at STC (W)	260	265	270	275	280
Open Circuit Voltage (Voc/V)	37.98	38.14	38.30	38.46	38.85
Maximum Power Voltage (Vmp/V)	30.55	30.89	31.21	31.54	31.88
Short Circuit Current (Isc/A)	9.04	9.10	9.16	9.22	9.33
Maximum Power Current (Imp/A)	8.51	8.58	8.65	8.72	8.78
Module Efficiency [%]	15.90	16.21	16.51	16.82	17.12
Power Tolerance (W)	-0~+5W				
Temperature Coefficient of Isc (αIsc)	+0.058%/°C				
Temperature Coefficient of Voc (βVoc)	-0.330%/°C				
Temperature Coefficient of Pmax (γPmp)	-0.400%/°C				
STC	Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass 1.5				

## I-V CURVE



TYPE	NOCT				
	JAP6(SE)60-260/4BB/RE	JAP6(SE)60-265/4BB/RE	JAP6(SE)60-270/4BB/RE	JAP6(SE)60-275/4BB/RE	JAP6(SE)60-280/4BB/RE
Max Power (Pmax) [W]	189.28	192.92	196.56	200.20	204.13
Open Circuit Voltage (Voc) [V]	34.88	35.03	35.19	35.37	35.68
Max Power Voltage (Vmp) [V]	27.91	28.07	28.23	28.41	28.66
Short Circuit Current (Isc) [A]	7.25	7.28	7.31	7.34	7.38
Max Power Current (Imp) [A]	6.78	6.87	6.96	7.05	7.12
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				



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.