

Harvest the Sunshine



330W PERC Module

JAM60S09 310-330/PR Series

Introduction

Powered by high-efficiency PERCIUM cells, this series of high-performance modules provides the most cost-effective solution for lowering the LCOE of any PV systems large or small.



5 busbar solar cell design



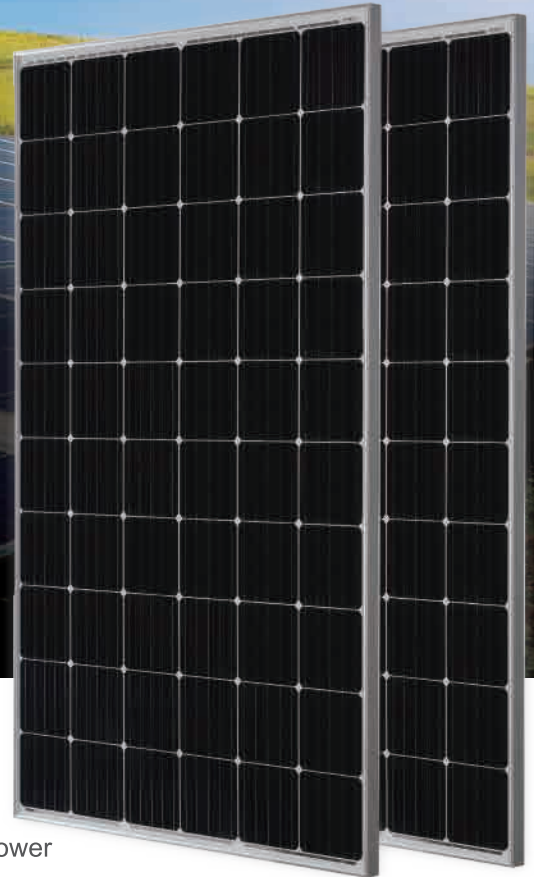
Higher output power



Excellent low-light performance

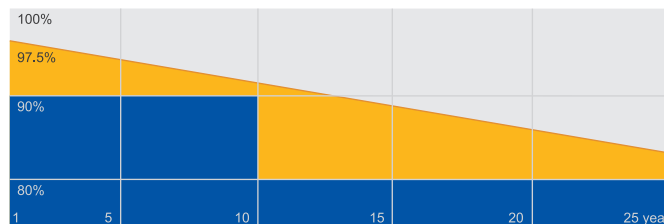


Lower temperature coefficient



Superior Warranty

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



■ JA Linear Power Warranty ■ Industry Warranty

Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval



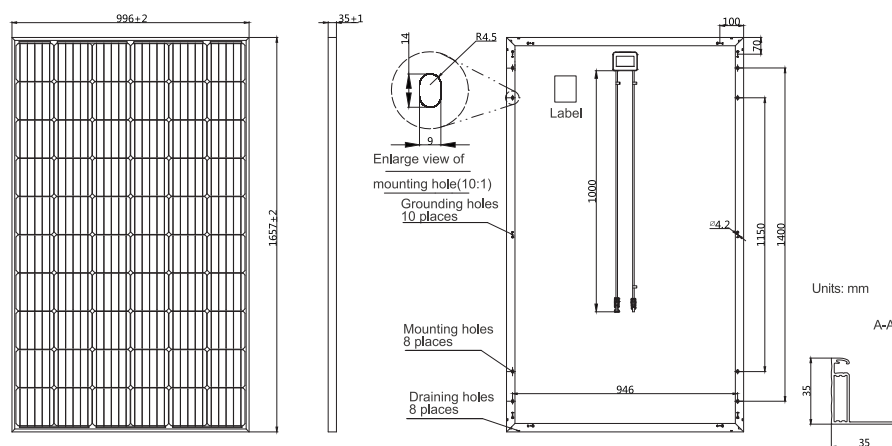
JA SOLAR

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



MECHANICAL DIAGRAMS



SPECIFICATIONS

Cell	Mono
Weight	18.4kg±3%
Dimensions	1657±2mm×996±2mm×35±1mm
Cable Cross Section Size	4mm ²
No. of cells	60(6x10)
Junction Box	IP67, 3 diodes
Connector	QC 4.10(1000V) QC 4.10-35(1500V)
Packaging Configuration	31 Per Pallet

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM60S09 -310/PR	JAM60S09 -315/PR	JAM60S09 -320/PR	JAM60S09 -325/PR	JAM60S09 -330/PR
Rated Maximum Power(P _{max}) [W]	310	315	320	325	330
Open Circuit Voltage(V _{oc}) [V]	40.30	40.53	40.78	41.04	41.30
Maximum Power Voltage(V _{mp}) [V]	32.60	32.89	33.17	33.44	33.75
Short Circuit Current(I _{sc}) [A]	10.04	10.11	10.18	10.25	10.32
Maximum Power Current(I _{mp}) [A]	9.51	9.58	9.65	9.72	9.78
Module Efficiency [%]	18.8	19.1	19.4	19.7	20.0
Power Tolerance	0~+5W				
Temperature Coefficient of I _{sc} (α _{Isc})	+0.060%/°C				
Temperature Coefficient of V _{oc} (β _{Voc})	-0.300%/°C				
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.370%/°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 PARAMETERS AT NOCT

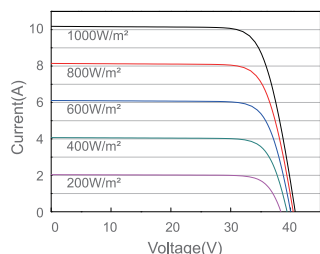
TYPE	JAM60S09 -310/PR	JAM60S09 -315/PR	JAM60S09 -320/PR	JAM60S09 -325/PR	JAM60S09 -330/PR
Rated Max Power(P _{max}) [W]	229	233	237	241	244
Open Circuit Voltage(V _{oc}) [V]	37.95	38.25	38.56	38.85	39.16
Max Power Voltage(V _{mp}) [V]	30.67	31.00	31.32	31.64	31.96
Short Circuit Current(I _{sc}) [A]	7.93	7.97	8.01	8.05	8.09
Max Power Current(I _{mp}) [A]	7.48	7.52	7.56	7.60	7.64
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G				

OPERATING CONDITIONS

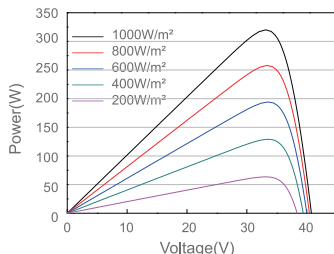
Maximum System Voltage	1000V/1500V DC(IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	20A
Maximum Static Load, Front	5400Pa
Maximum Static Load, Back	2400Pa
NOCT	45±2°C
Safety Class	Glass II

CHARACTERISTICS

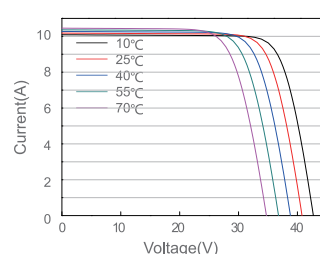
Current-Voltage Curve JAM60S09-320/PR



Power-Voltage Curve JAM60S09-320/PR



Current-Voltage Curve JAM60S09-320/PR



Mono

410W PERC Half-Cell Module

JAM72S10 390-410/PR Series

Introduction

Assembled with high-efficiency PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.



Higher output power



Lower temperature coefficient



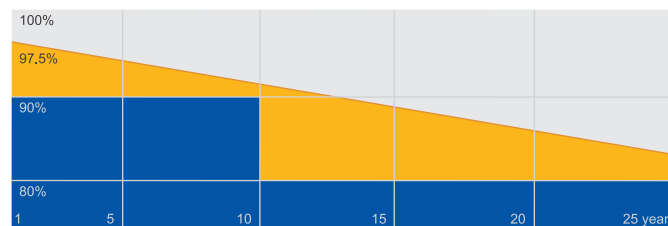
Less shading effect



Better mechanical loading tolerance

Superior Warranty

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



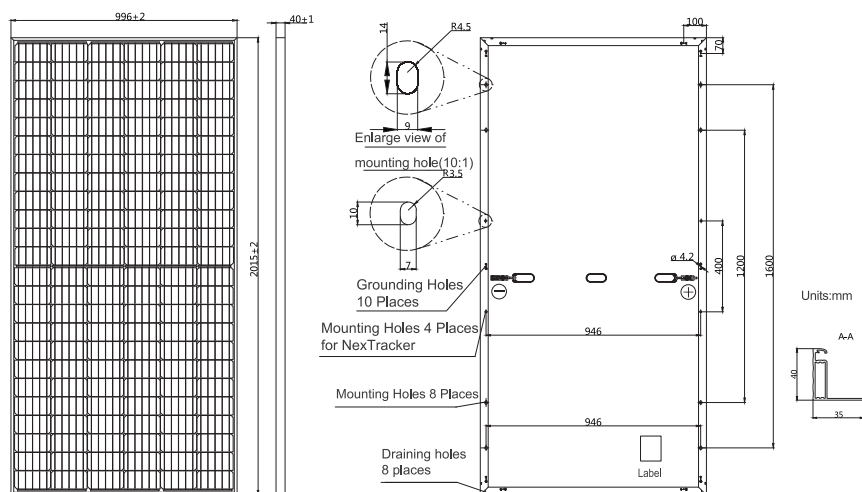
■ JA Linear Power Warranty ■ Industry Warranty

Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval



MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	22.7kg±3%
Dimensions	2015±2mm×996±2mm×40±1mm
Cable Cross Section Size	4mm ²
No. of cells	144 (6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10(1000V) QC 4.10-35(1500V)
Cable Length (Including Connector)	Portrait:300mm(+)/400mm(-); Landscape:1200mm(+)/1200mm(-)
Packaging Configuration	27 Per Pallet

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S10 -390/PR	JAM72S10 -395/PR	JAM72S10 -400/PR	JAM72S10 -405/PR	JAM72S10 -410/PR
Rated Maximum Power(P _{max}) [W]	390	395	400	405	410
Open Circuit Voltage(V _{oc}) [V]	48.91	49.21	49.50	49.81	50.12
Maximum Power Voltage(V _{mp}) [V]	40.55	40.85	41.17	41.46	41.76
Short Circuit Current(I _{sc}) [A]	10.16	10.21	10.26	10.32	10.37
Maximum Power Current(I _{mp}) [A]	9.62	9.67	9.72	9.77	9.82
Module Efficiency [%]	19.4	19.7	19.9	20.2	20.4
Power Tolerance	0~+5W				
Temperature Coefficient of I _{sc} (α _{Isc})	+0.051%/°C				
Temperature Coefficient of V _{oc} (β _{Voc})	-0.289%/°C				
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.350%/°C				
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G				

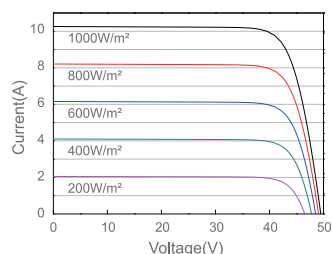
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.
*For NexTracker installations static loading performance: front load measures 2400Pa, while back load measures 2400Pa.

ELECTRICAL PARAMETERS AT NOCT

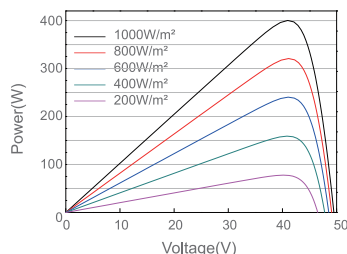
TYPE	JAM72S10 -390/PR	JAM72S10 -395/PR	JAM72S10 -400/PR	JAM72S10 -405/PR	JAM72S10 -410/PR	OPERATING CONDITIONS	
Rated Max Power(P _{max}) [W]	289	292	296	300	303	Maximum System Voltage	1000V/1500V DC(IEC)
Open Circuit Voltage(V _{oc}) [V]	45.04	45.30	45.56	45.81	46.06	Operating Temperature	-40°C~+85°C
Max Power Voltage(V _{mp}) [V]	37.29	37.52	37.76	38.03	38.28	Maximum Series Fuse	20A
Short Circuit Current(I _{sc}) [A]	8.18	8.23	8.28	8.33	8.38	Maximum Static Load, Front*	5400Pa
Max Power Current(I _{mp}) [A]	7.74	7.79	7.84	7.88	7.93	Maximum Static Load, Back*	2400Pa
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G					NOCT	45±2°C
						Safety Class	Glass II

CHARACTERISTICS

Current-Voltage Curve JAM72S10-400/PR



Power-Voltage Curve JAM72S10-400/PR



Current-Voltage Curve JAM72S10-400/PR

