

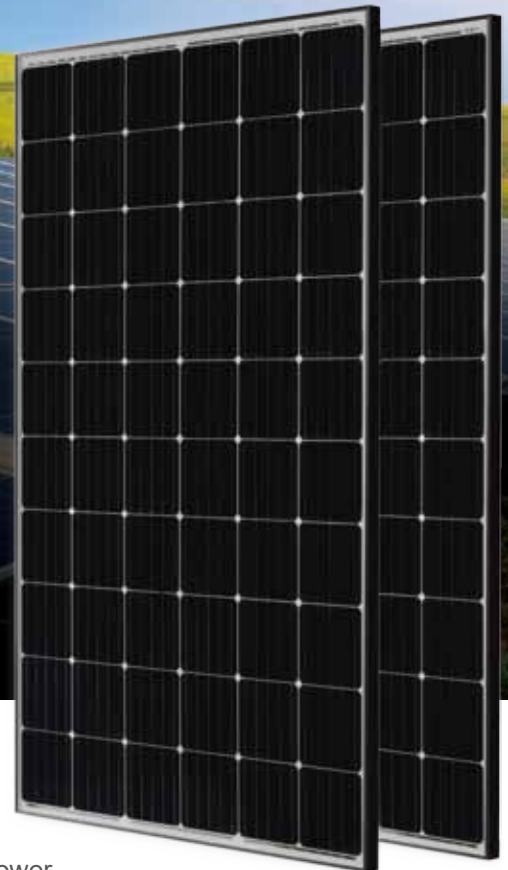


## 330W PERC Module

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



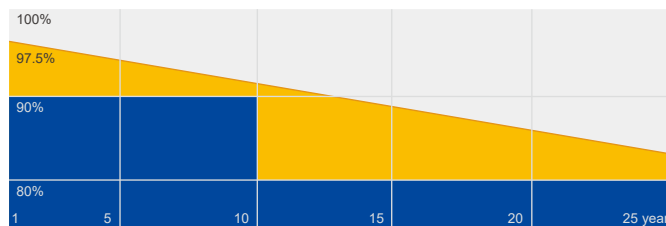
Excellent low-light performance



Lower temperature coefficient

### Superior Warranty

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



■ JA Linear Power Warranty ■ Industry Warranty

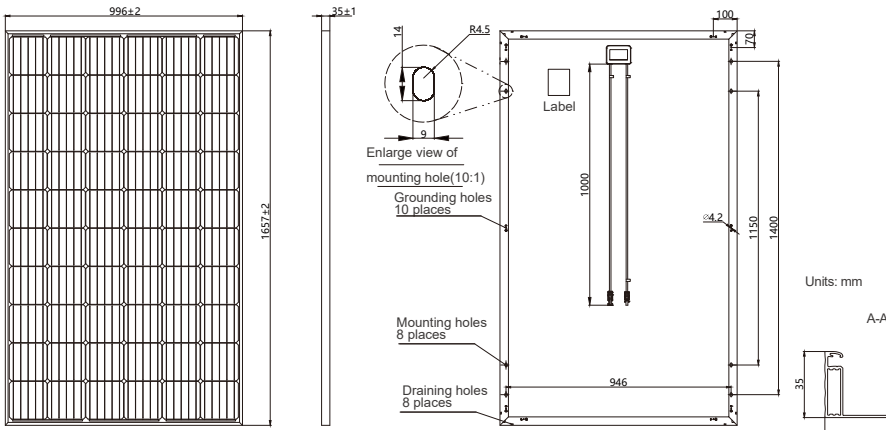
### Comprehensive Certificates

- 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



MECHANICAL DIAGRAMS

SPECIFICATIONS



Cell	Mono
Weight	18.4kg±3%
Dimensions	1657±2mm×996±2mm×35±1mm
Cable Cross Section Size	4mm <sup>2</sup>
No. of cells	60(6x10)
Junction Box	IP67, 3 diodes
Connector	MC4
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(Pmax) [W]	310	315	320	325	330
Open Circuit Voltage(Voc) [V]	40.30	40.53	40.78	41.04	41.30
Maximum Power Voltage(Vmp) [V]	32.60	32.89	33.17	33.44	33.75
Short Circuit Current(Isc) [A]	10.04	10.11	10.18	10.25	10.32
Maximum Power Current(Imp) [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 Isc(α <sub>Isc</sub> )	+0.060%/°C				
Temperature Coefficient of Voc(β <sub>Voc</sub> )	-0.300%/°C				
Temperature Coefficient of Pmax(γ <sub>Pmp</sub> )	-0.370%/°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.

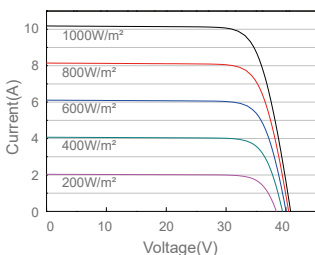
ELECTRICAL PARAMETERS AT NOCT

OPERATING CONDITIONS

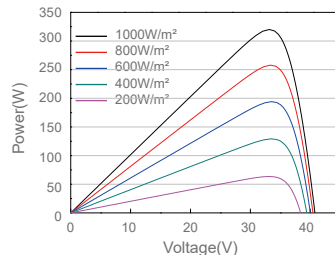
TYPE	JAM60S09 -310/PR	JAM60S09 -315/PR	JAM60S09 -320/PR	JAM60S09 -325/PR	JAM60S09 -330/PR	Maximum System Voltage	1000V/1500V DC (IEC)
Rated Max Power(Pmax) [W]	229	233	237	241	244	Operating Temperature	-40°C~+85°C
Open Circuit Voltage(Voc) [V]	37.95	38.25	38.56	38.85	39.16	Maximum Series Fuse	20A
Max Power Voltage(Vmp) [V]	30.67	31.00	31.32	31.64	31.96	Maximum Static Load,Front	5400Pa
Short Circuit Current(Isc) [A]	7.93	7.97	8.01	8.05	8.09	Maximum Static Load,Back	2400Pa
Max Power Current(Imp) [A]	7.48	7.52	7.56	7.60	7.64	NOCT	45±2°C
NOCT	Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, wind speed 1m/s, AM1.5G					Safety Class	Class II

CHARACTERISTICS

Current-Voltage Curve JAM60S09-320/PR



Power-Voltage Curve JAM60S09-320/PR



Current-Voltage Curve JAM60S09-320/PR

