Harvest the Sunshine

Mono

310W PERC Black Module

JAM60S02 290-310/PR Series

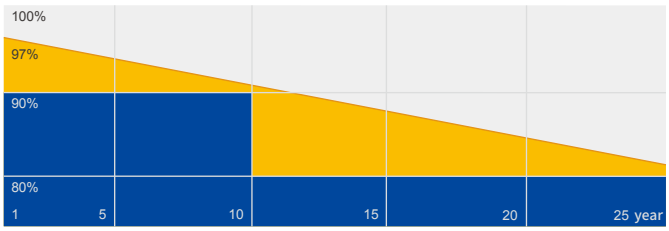
Introduction

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



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

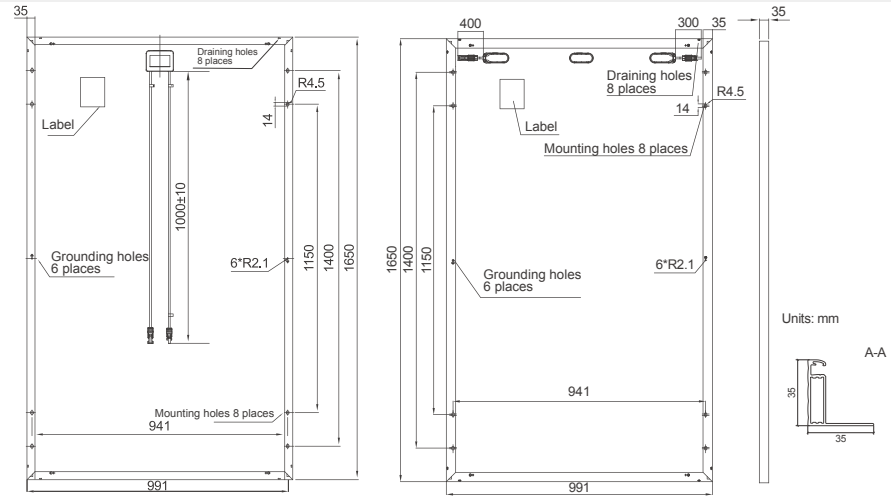
www.jasolar.com

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

JA SOLAR

JAM60S02 290-310/PR Series

MECHANICAL DIAGRAMS



Integrated junction box　　Split junction box

Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	18.2kg±3%
Dimensions	1650mm×991mm×35mm
Cable Cross Section Size	4mm²
No. of cells	60(6x10)
Junction Box	IP67, 3 diodes
Connector	MC4 Compatible
Packaging Configuration	30 Per Pallet

ELECTRICAL PARAMETERS AT STC

TYPE	JAM60S02 -290/PR	JAM60S02 -295/PR	JAM60S02 -300/PR	JAM60S02 -305/PR	JAM60S02 -310/PR
Rated Maximum Power(Pmax) [W]	290	295	300	305	310
Open Circuit Voltage(Voc) [V]	39.46	39.64	39.85	40.05	40.30
Maximum Power Voltage(Vmp) [V]	31.80	32.03	32.26	32.57	32.84
Short Circuit Current(Isc) [A]	9.57	9.66	9.75	9.85	9.91
Maximum Power Current(Imp) [A]	9.12	9.21	9.30	9.37	9.44
Module Efficiency [%]	17.7	18.0	18.3	18.7	19.0
Power Tolerance	0~+5W				
Temperature Coefficient of Isc(α_Isc)	+0.060%/°C				
Temperature Coefficient of Voc(β_Voc)	-0.300%/°C				
Temperature Coefficient of Pmax(γ_Pmp)	-0.380%/°C				
STC	Irradiance 1000W/m², 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

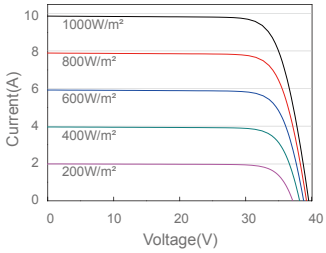
TYPE	JAM60S02 -290/PR	JAM60S02 -295/PR	JAM60S02 -300/PR	JAM60S02 -305/PR	JAM60S02 -310/PR
Rated Max Power(Pmax) [W]	213	217	221	224	228
Open Circuit Voltage(Voc) [V]	36.34	36.57	36.75	36.95	37.15
Max Power Voltage(Vmp) [V]	29.56	29.63	29.69	29.90	30.18
Short Circuit Current(Isc) [A]	7.61	7.69	7.78	7.86	7.93
Max Power Current(Imp) [A]	7.21	7.32	7.43	7.50	7.55
NOCT	Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G				

OPERATING CONDITIONS

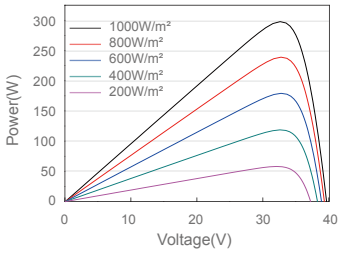
Maximum System Voltage	1000V DC(IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	20A
Maximum Static Load,Front	5400Pa
Maximum Static Load,Back	2400Pa
NOCT	45±2°C
Application Class	Class A

CHARACTERISTICS

Current-Voltage Curve　JAM60S02-300/PR



Power-Voltage Curve　JAM60S02-300/PR



Current-Voltage Curve　JAM60S02-300/PR