

Mono JT190SAa/b Series

Monocrystalline Solar Module



Visionary green energy



JETION
SOLAR

Mono JT190SAa/b Series

JT190SAa, JT190SAb, JT185SAa, JT185SAb, JT180SAa, JT180SAb, JT175SAa, JT175SAb, JT170SAa, JT170SAb

Module

JT190SAa/b series is a medium-powered module product ideal for roof top or ground mounted large, medium or small sized off-grid and on-grid solar power systems where long term economics, reliability and environmental issues are of a real concern.

JT190SAa/b have gone through various rigorous in-house reliability tests, i.e., LID under natural sunlight as well as artificial sunlight to guarantee the rated power output.

Mechanical Characteristics

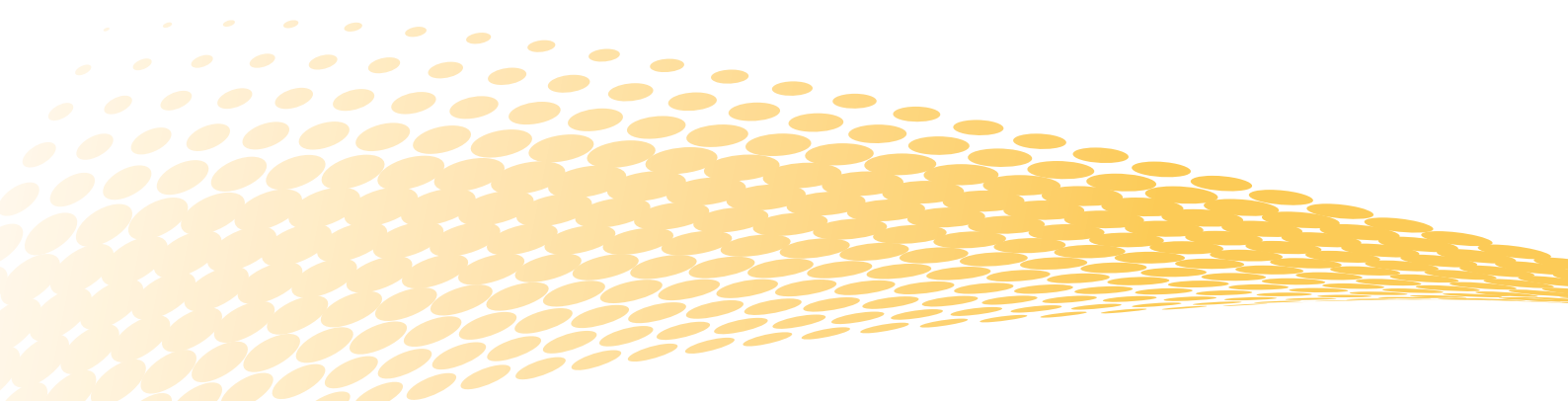
Cable type, Diameter and Length	4 mm ² , TUV certified, 1,000 mm	
Type of Connector	Compatible Type IV	
Number, type and arrangement of cells	72 pcs, Mono-Crystalline Silicon (6x12)	
Cell Size (mm)	JT190SAa	125x125 (D150)
	JT190SAb	125x125 (D165)
Dimension (mm)	1580x808x40	
Weight (kg)	15.5	
No. of Draining Holes in Frame	10	
Bypass-Diodes	3	
Glass, Type and Thickness	High Transmission, Low Iron, Tempered Glass 3.2 mm	

Packaging Configuration

Packing Configuration	Quantity/Pallet	Loading Capacity
24 pcs in box or 2 pcs in box	50 pcs on pallet	700 pcs in container (40 ft)

Absolute Ratings

Dielectric Insulation Voltage	Operating Temperature (°C)	Storage Temperature (°C)
3000 V	-40 ~ +85	-40 ~ +85



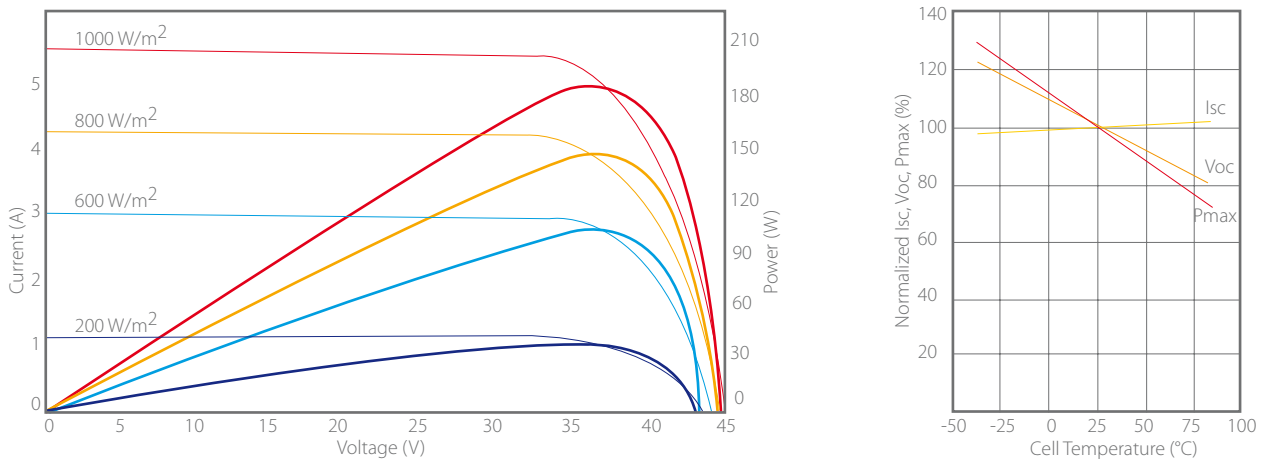
Electrical Characteristics

All specified Parameters are at STC 25 °C Ambient, 1000 W/m² irradiance and AM 1.5

Type		JT170SAa JT170SAb	JT175SAa JT175SAb	JT180SAa JT180SAb	JT185SAa JT185SAb	JT190SAa JT190SAb
Max-Power	Pm(W)	170	175	180	185	190
Module Power Range	(W)	175 > Pm ≥ 170	180 > Pm ≥ 175	185 > Pm ≥ 180	190 > Pm ≥ 185	Pm ≥ 190
Power Tolerance	(W)	+0 ~ +5	+0 ~ +5	+0 ~ +5	+0 ~ +5	+0 ~ +5
Max-Power Voltage	Vm(W)	35.2	35.3	36	36.27	36.5
Max-Power Current	Im(A)	4.83	4.96	5	5.1	5.2
Short-Circuit Current	Isc(A)	5.14	5.2	5.3	5.5	5.6
Open-Circuit Voltage	Voc(V)	43.8	44.2	44.8	45	45.2
Max-System Voltage	(VDC)	600 V(UL)/1,000 V(IEC)				
Cell Efficiency	(%)	15.9/15.2	16.4/15.7	16.8/16.1	17.3/16.6	17.8/17.0
Module Efficiency	(%)	13.3	13.7	14.1	14.5	14.88
Max. Series Fuse	(A)	10				
Pm Temperature Coefficients	(W/°C)	-0.9964				
Isc temperature Coefficients	(A/°C)	0.0023				
Voc Temperature Coefficients	(V/°C)	-0.1801				
NOCT Nominal operating Cell Temperature		47 ±2 °C				

Maximum load rating: 5,400 Pa (112.78 lbf/ft²)

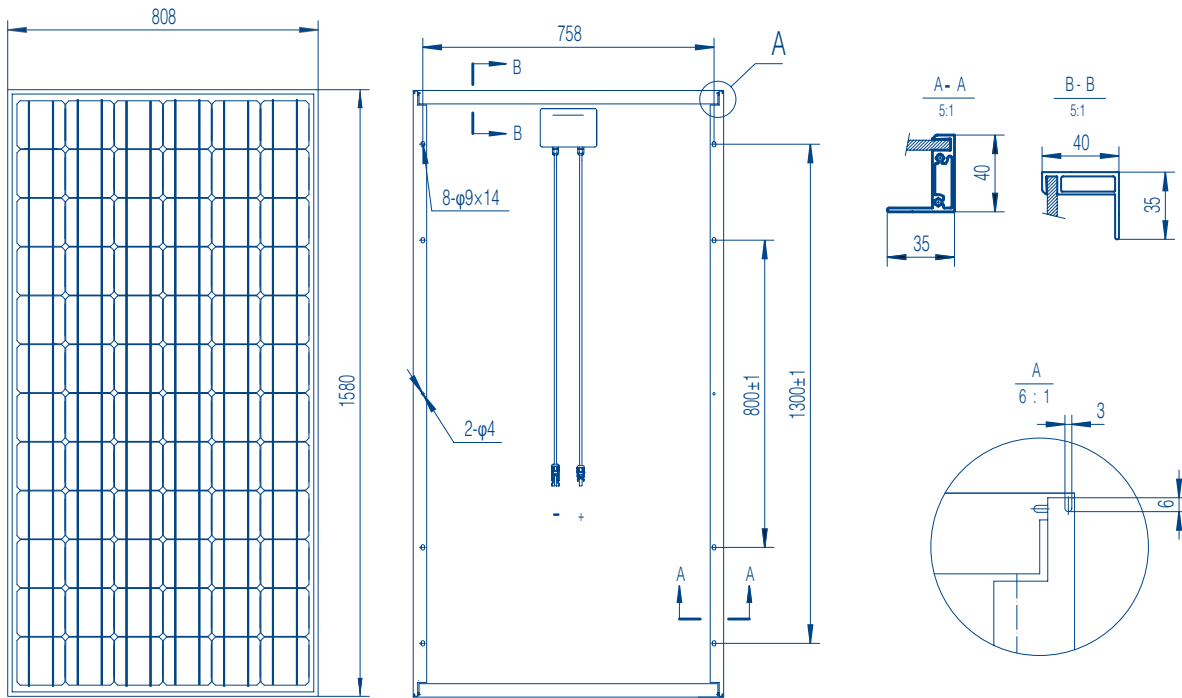
I-V Curves



I-V Curves at different Irradiances (AM 1.5 25 °C)

Specifications included in this datasheet are subject to change without prior notice

Mechanical Specifications



Certificates



IEC 61215.2 / IEC 61730 / UL 1703.3rd



Key Features

- 72 Mono-Crystalline solar cells
- Unique frame design to reinforce sealing and to prevent freezing and warping
- Strong aluminum frames to strengthen the load hold and to stand against high wind
- Special mounting holes on the frames for long and short side mounting
- High transparency low iron tempered glass with enhanced stiffness and impact resistance
- Advanced EVA encapsulation system with multilayer backsheets

Applications/References

Industrial

- 1.3 MW, Varna, Italy
- 950 kWp, Cerea, Italy
- 270 kWp, Schwarzbach, Germany

Greenhouse

- 6 MW, Ferrara, Italy
- 5 MW to be built 1H 2011, Verona, Italy

Carport

- 1.8 MW, Rimini, Italy
- 1.1 MW, Fasano, Italy
- 1.6 MW, Verona, Italy

Solar Park

- 1.6 MW, Chillaron de Cuenca, Spain
- 1 MW, Langa, Spain
- 1 MW, Wirbenz, Germany



1 MW, Wirbenz, Germany



1.6 MW, Verona, Italy

We offer the following guarantees in the case of proper use, installation and maintenance:

Product warranty

- 6 years + 1 month for materials and workmanship

Performance warranty

- 5 years + 1 month from the date of purchase against a power drop exceeding 7 % of minimum power rating measured under STC
- 10 years + 1 month from the date of purchase against a power drop exceeding 10 % of minimum power rating measured under STC
- 25 years + 1 month from the date of purchase against a power drop exceeding 20 % of minimum power rating measured under STC



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