

Black JT190SAa/b Series

Monocrystalline Solar Module



Visionary green energy



JETION
SOLAR

Black JT190SAa/b Series

JT190SAa (Black), JT190SAb (Black), JT185SAa (Black), JT185SAb (Black), JT180SAa (Black)
JT180SAb (Black), JT175SAa (Black), JT175SAb (Black), JT170SAa (Black), JT170SAb (Black)

Module

JT190SAa/b (Black) 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 (Black) 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

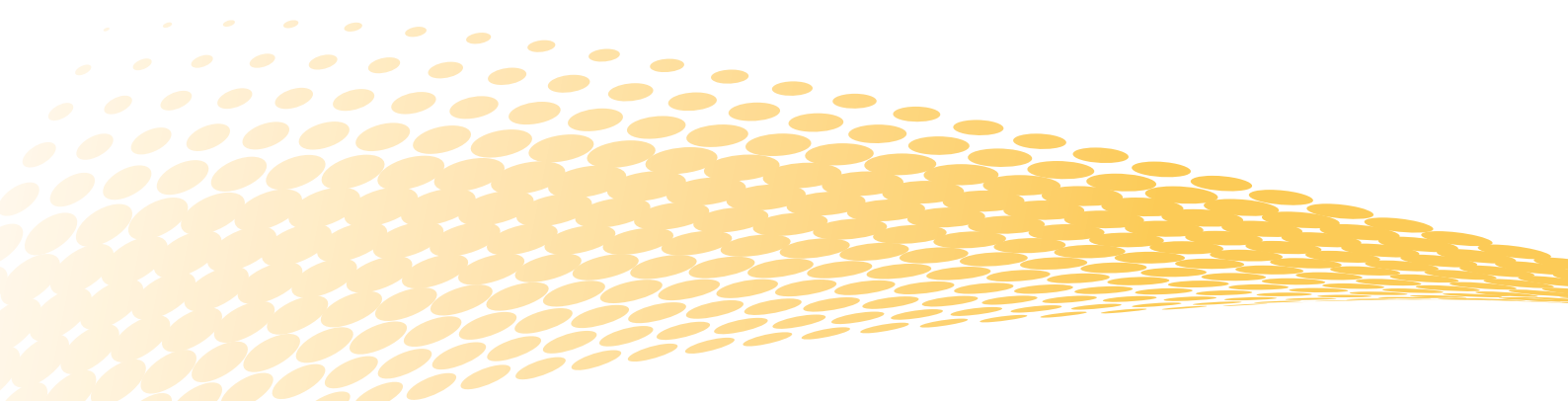
Cable type, Diameter and Length	4 mm ² , TUV certified, 1,000 mm	
Type of Connector	Compatible Type IV	
Number, type and arrangement of cells	72 pcs, Mono-Crystalline Silicon (6x12)	
Cell Size (mm)	JT190SA0 (Black)	125x125 (D150)
	JT190SAb (Black)	125x125 (D165)
Dimension (mm)	1580x808x40	
Weight (kg)	15.5	
No. of Draining Holes in Frame	10	
Color of frame	Black	
Bypass-Diods	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

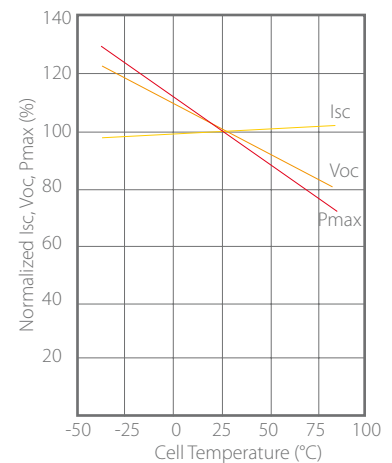
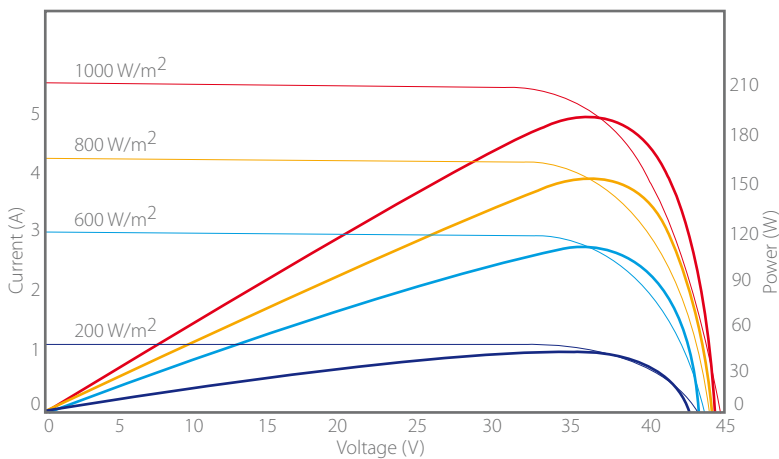


Electrical Characteristics

Type		JT170SAa (Black) JT170SAb (Black)	JT175SAa (Black) JT175SAb (Black)	JT180SAa (Black) JT180SAb (Black)	JT185SAa (Black) JT185SAb (Black)	JT190SAa (Black) JT190SAb (Black)
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)

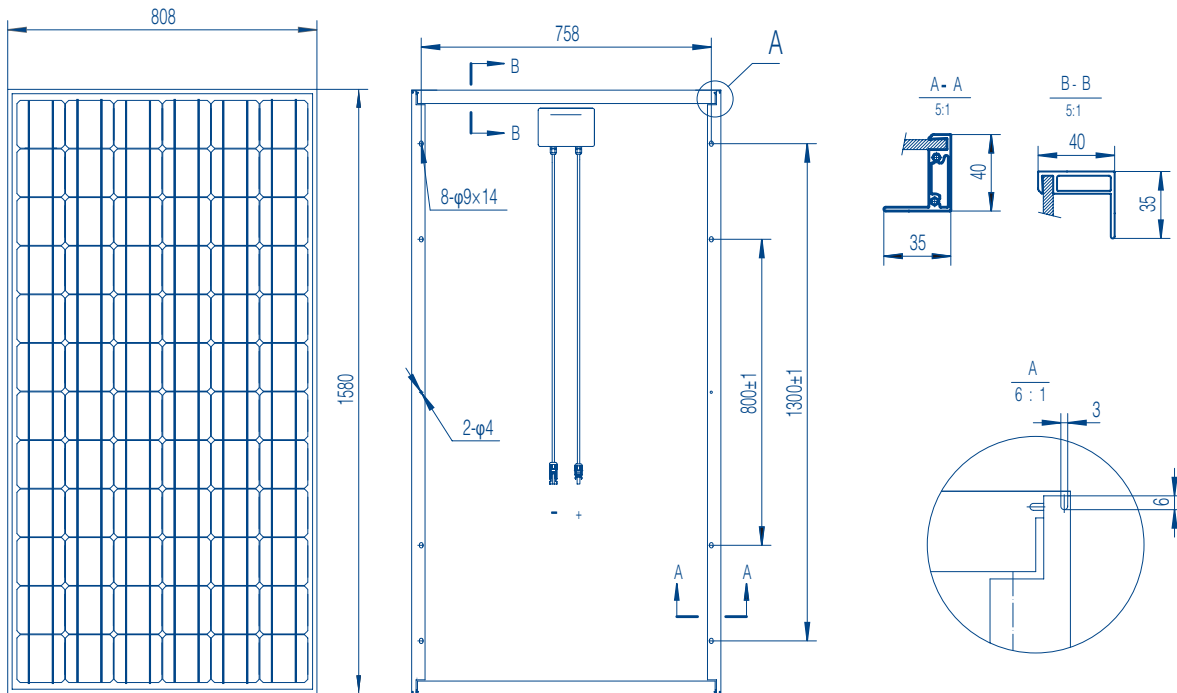
I-V Curves



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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