

Visionary green energy

Black JT190SAa/b Series

Monocrystalline Solar Module

**There are no limits to what we can do.
Our possibilities are endless.**

You can buy solar technology anywhere today. But you don't receive the experience that is behind it. As a global company, Jetion has worked on new innovations and ideas since it was founded in 2004, contributing significantly to a clean and environmentally-friendly energy.

From highly efficient solar cells to complete solar energy installations, we offer sustainable solutions for increased performance and, at the same time, a healthier environment.

Jetion modules are particularly employed where long-term profitability, reliability and environmental issues are of great importance.



1 MW, Wirbenz, Germany

Specific conditions of guarantee and further information may be found at: www.jetion.biz



JETION
SOLAR

We guarantee the highest income, for a long life.

Product Warranty

- 12 years for materials and workmanship.

Peak Power Warranty

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

Plus-Sorting

- With this plus-sorting we ensure that our customers pay for the watts they receive and guarantee the highest efficiency.

Key Features

- 72 monocrystalline solar cells.
- Strong aluminum frames in order to improve the bearing capacity and withstand strong 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:

- Ground Installation
- Residential and Industrial Rooftops
- Carports



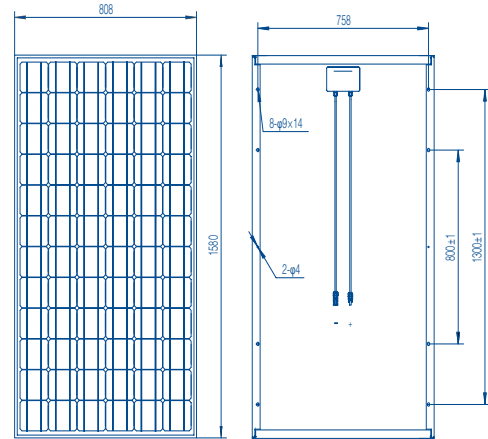
Electrical Features

All parameters are given in relation to 25 °C ambient temperature, 1000 W/m² irradiance and AM 1.5

Typ		JT175SAa (Black) JT175SAb (Black)	JT180SAa (Black) JT180SAb (Black)	JT185SAa (Black) JT185SAb (Black)	JT190SAa (Black) JT190SAb (Black)
Max-Power	P _m (W)	175	180	185	190
Modul Power Range	(W)	180 > P _m ≥ 175	185 > P _m ≥ 180	190 > P _m ≥ 185	195 > P _m ≥ 190
Power Tolerance	(W)	+0 ~ +5	+0 ~ +5	+0 ~ +5	+0 ~ +5
Max-Power Voltage	V _m (W)	35.3	36	36.27	36.5
Max-Power Current	I _m (A)	4.96	5	5.1	5.2
Short-Circuit Current	I _{sc} (A)	5.2	5.3	5.5	5.6
Open-Circuit Voltage	V _{oc} (V)	44.2	44.8	45	45.2
Max-System Voltage	(VDC)	600 V(UL)/1.000 V(IEC)			
Cell Efficiency	(%)	16.7/16	17.2/16.5	17.6/16.9	18.1/17.4
Module Efficiency	(%)	13.7	14.1	14.5	14.9
Max. Series Fuse	(A)	10			
P _m Temperature Coefficients	(%/°C)	-0.4601			
I _{sc} Temperature Coefficients	(%/°C)	0.0981			
V _{oc} Temperature Coefficients	(%/°C)	-0.5186			
NOCT Nominal Operating Cell Temperature		45 ±2 °C			
Maximum load rating: 5.400 Pa (112,78 lbf/ft ²)					

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, monocrystalline silicone (6x12)	
Cell size (mm)	JT190SAa	125x125
	JT190SAb	125x125
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: 24 pcs in box

Quantity/Pallet: 50 pcs on pallet

Loading Capacity: 700 pcs in container (40 ft)

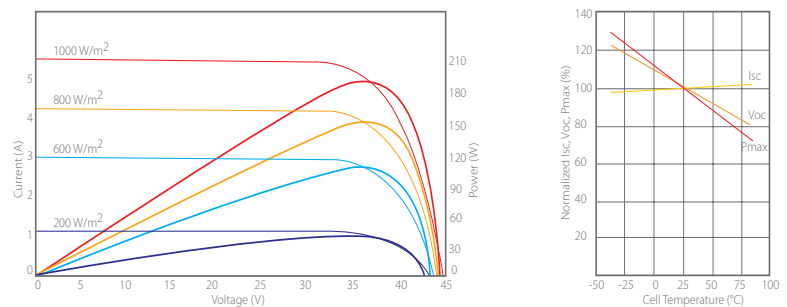
Absolute Ratings

Dielectric Insulation Voltage: 3000 V

Operating Temperature (°C): -40 ~ +85

Storage Temperature (°C): -40 ~ +85

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



Certificates

IEC 61215.2 / IEC 61730 /

UL 1703.3rd



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

JETION SOLAR EUROPE

Jetion Solar (Europe) Ltd. | Industriering 10 | 9491 Ruggell | Liechtenstein
T: +423 265 3830 | F: +423 265 3839 | E: info@jetion.biz | www.jetion.biz



JETION
SOLAR

visionary green energy