

Black JT230SDc Series

Monocrystalline Solar Module



Visonary green energy



JETION
SOLAR

Black JT230SDc Series

JT230SDc (Black), JT225SDc (Black), JT220SDc (Black),
JT215SDc (Black), JT210SDc (Black)

Module

JT230SDc (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.

JT230SDc (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

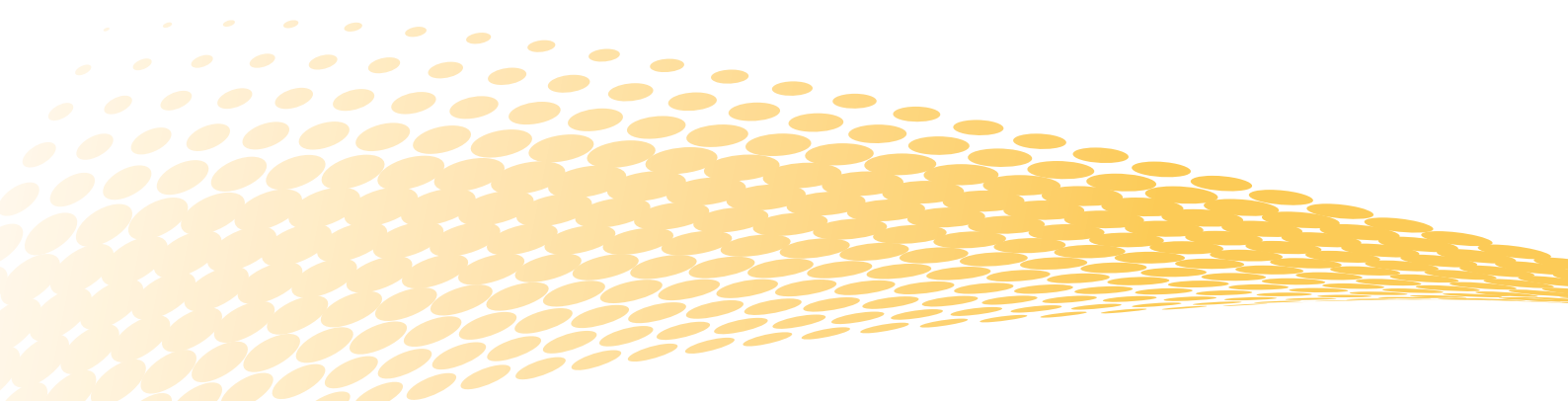
Cable type, Diameter and Length	4 mm ² , TUV certified, 1,000 mm
Type of Connector	Compatible Type IV
Number, type and arrangement of cells	54 pcs, Mono-Crystalline Silicon (6x9)
Cell Size (mm)	156x156 (D200)
Dimension (mm)	1482x992x40
Weight (kg)	17
No. of Draining Holes in Frame	10
Color of frame	Black
Bypass-Diods	6
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	48 pcs on pallet	720 pcs in container (40 ft)

Absolute Ratings

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



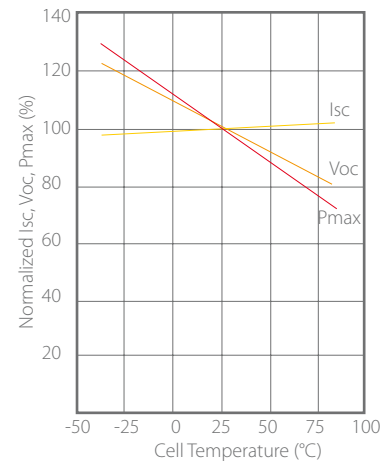
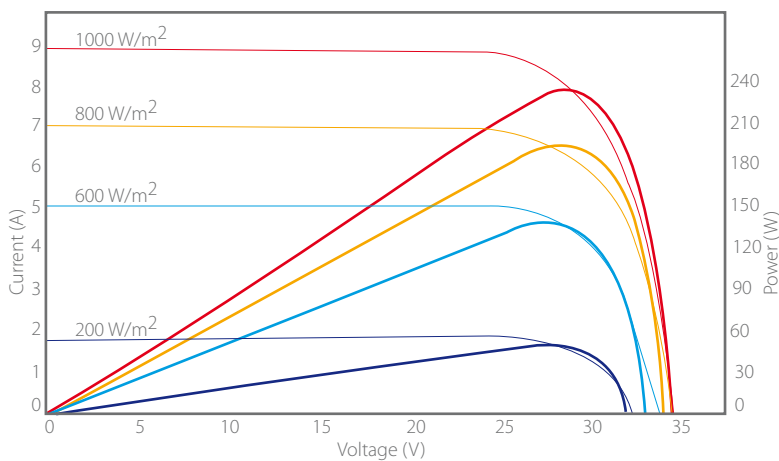
Electrical Characteristics

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

Type		JT210SDc (Black)	JT215SDc (Black)	JT220SDc (Black)	JT225SDc (Black)	JT230SDc (Black)
Max-Power	Pm(W)	210	215	220	225	230
Module Power Range	(W)	215 > Pm ≥ 210	220 > Pm ≥ 215	225 > Pm ≥ 220	230 > Pm ≥ 225	Pm ≥ 230
Power Tolerance	(W)	+0 ~ +5	+0 ~ +5	+0 ~ +5	+0 ~ +5	+0 ~ +5
Max-Power Voltage	Vm(W)	27.6	27.9	28.2	28.6	29.1
Max-Power Current	Im(A)	7.6	7.7	7.8	7.85	7.9
Short-Circuit Current	Isc(A)	8.48	8.6	8.7	8.85	8.9
Open-Circuit Voltage	Voc(V)	33	33.3	33.7	33.9	34.4
Max-System Voltage	(VDC)	600 V(UL)/1,000 V(IEC)				
Cell Efficiency	(%)	16.3	16.7	17	17.4	17.8
Module Efficiency	(%)	14.3	14.6	15	15.3	15.6
Max. Series Fuse	(A)	15				
Pm Temperature Coefficients	(W/°C)	1.1041				
Isc temperature Coefficients	(A/°C)	0.00418				
Voc Temperature Coefficients	(V/°C)	-0.1261				
NOCT Nominal operating Cell Temperature		47 ±2 °C				

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

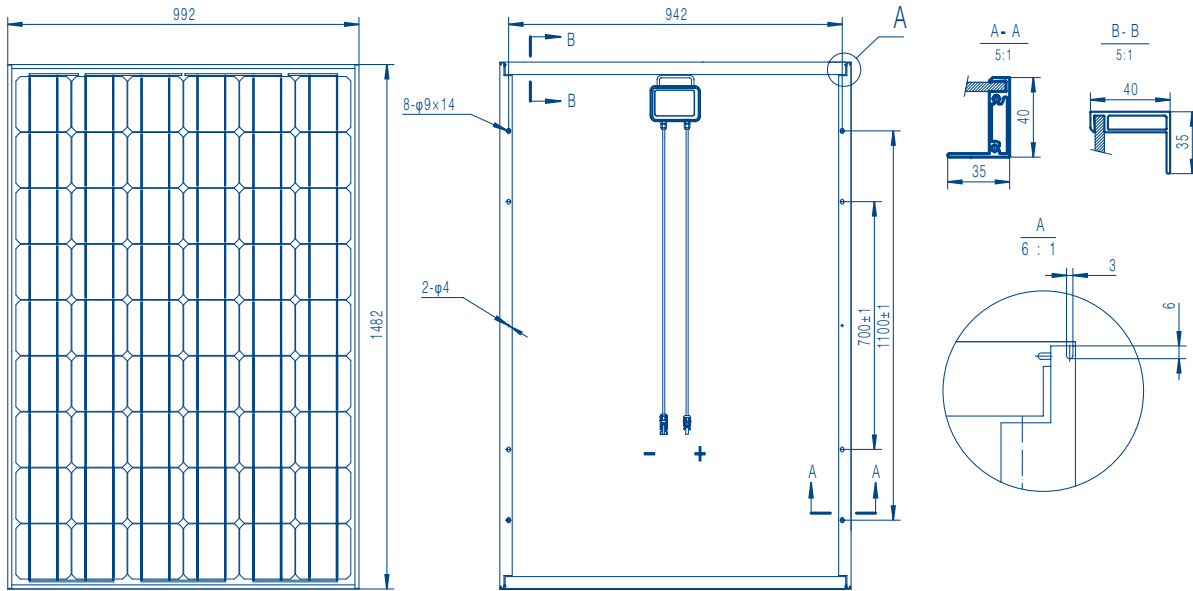
I-V Curves



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



Key Features

- 54 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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