

Visionary green energy

# Poly JT290PAe Series

## Polycrystalline 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](http://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 polycrystalline 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



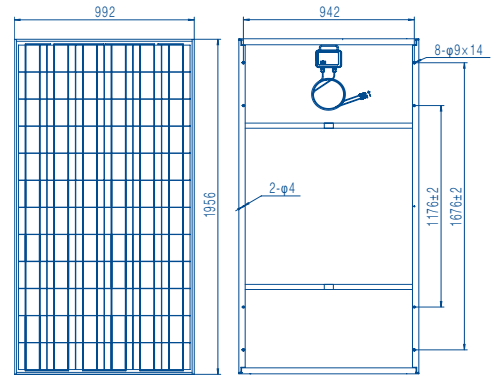
## Electrical Features

All parameters are given in relation to 25 °C ambient temperature, 1000 W/m<sup>2</sup> irradiance and AM 1.5

Typ		JT270PAe	JT275PAe	JT280PAe	JT285PAe	JT290PAe
Max-Power	P <sub>m</sub> (W)	270	275	280	285	290
Modul Power Range	(W)	275 > P <sub>m</sub> ≥ 270	280 > P <sub>m</sub> ≥ 275	285 > P <sub>m</sub> ≥ 280	290 > P <sub>m</sub> ≥ 285	P <sub>m</sub> ≥ 290
Power Tolerance	(W)	+0 ~ +5	+0 ~ +5	+0 ~ +5	+0 ~ +5	+0 ~ +5
Max-Power Voltage	V <sub>m</sub> (W)	36.1	36.37	36.6	36.9	37.2
Max-Power Current	I <sub>m</sub> (A)	7.48	7.56	7.66	7.73	7.8
Short-Circuit Current	I <sub>sc</sub> (A)	8.2	8.2	8.26	8.32	8.41
Open-Circuit Voltage	V <sub>oc</sub> (V)	43.6	44	44.2	44.6	45.1
Max-System Voltage	(VDC)	600 V(UL)/1.000 V(IEC)				
Cell Efficiency	(%)	15.4	15.7	16	16.3	16.6
Module Efficiency	(%)	13.9	14.2	14.4	14.7	14.9
Max. Series Fuse	(A)	15				
P <sub>m</sub> Temperature Coefficients	(%/°C)	-0.4336				
I <sub>sc</sub> Temperature Coefficients	(%/°C)	0.0825				
V <sub>oc</sub> Temperature Coefficients	(%/°C)	-0.4049				
NOCT Nominal Operating Cell Temperature		45 ±2 °C				
Maximum load rating: 5.400 Pa (112,78 lbf/ft <sup>2</sup> )						

## Mechanical Characteristics

Cable type, Diameter and Length	4 mm <sup>2</sup> , TUV certified, 1.000 mm
Type of Connector	Compatible Type IV
Number, type and arrangement of cells	72 pcs, polycrystalline silicone (6x12)
Cell size (mm)	156x156
Dimension (mm)	1956x992x45
Weight (kg)	26
No. of Draining Holes in Frame	10
Bypass-Diodes	6
Glass, Type and Thickness	High Transmission, Low Iron Tempered Glass 4 mm



## Packaging Configuration

Packing Configuration: 22 pcs in box

Quantity/Pallet: 44 pcs on pallet

Loading Capacity: 528 pcs in container (40 ft)

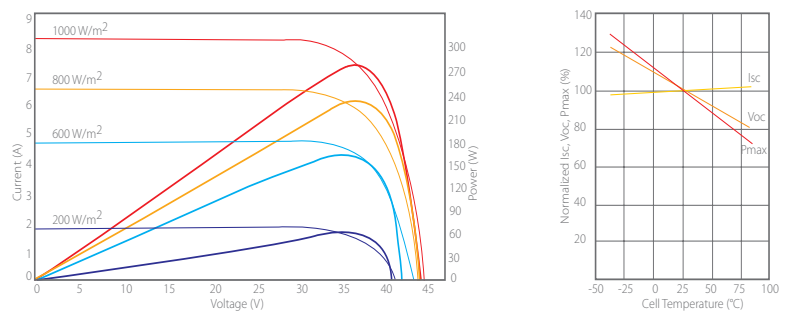
## Absolute Ratings

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.

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