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Solar Panel Guide Specification Data Sheet

BJ Power Co., Ltd.

EC 300-320P72

ECS-300P72

Also available on the web at
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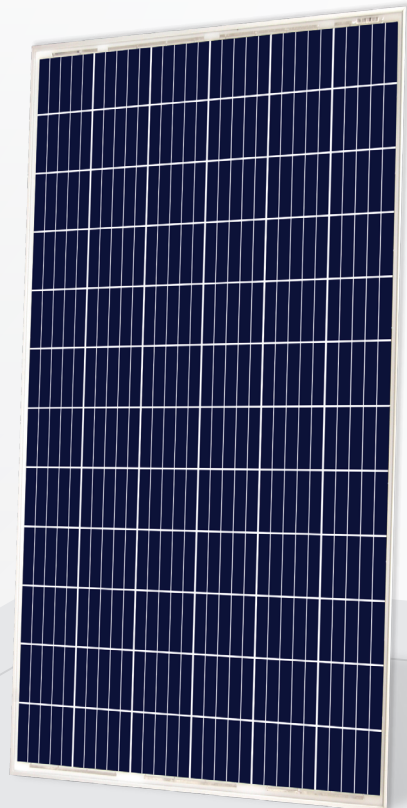
EC Series - 300/305/310/315/320P72 Poly-crystalline PV Module

Features

- ☞ High conversion efficiency through advanced manufacturing technology
- ☞ 12 years product warranty, 25 years linear performance warranty
- ☞ 3%- 5% positive tolerance ensures more power generated
- ☞ Withstand snow loads up to 5400Pa and wind loads up to 2400Pa under extreme temperature
- ☞ Anti-PID modules effectively reduce the loss in solar panel power output
- ☞ Anti salt mist corrosion & anti-ammonia corrosion test

Certificates

- ☞ Manufactured according to International Management System Standard
Quality Management system: ISO9001
Environmental Management System: ISO14001
Occupational Health and Safety Management System: OHSAS18001
- ☞ Certified and approved by CE, TUV, IEC 61215, IEC 61730, MCS, CEC and PV CYCLE



Electrical Characteristics under STC*

Module Type	ECS-300P72	ECS-305P72	ECS-310P72	ECS-315P72	ECS-320P72
Maximum Power-Pmax (Wp)	300	305	310	315	320
Voltage at Maximum Power-Vmp (V)	36.1	36.4	36.9	37.2	37.5
Current at Maximum Power -Imp (A)	8.32	8.38	8.40	8.47	8.53
Open Circuit Voltage Voc (V)	45.0	45.1	45.3	45.4	45.7
Short Circuit Current-Isc (A)	8.73	8.78	8.86	8.88	8.94
Module Efficiency- η_m (%)	15.5	15.7	16.0	16.3	16.5
Power Tolerance (%)	0/+3	0/+3	0/+3	0/+3	0/+3

Mechanical Characteristics

Cell Type	Poly-crystalline 156×156 mm (6 inches)
Number of Cells	72 (6×12)
Dimension	1956×990×40 mm (77.01×38.98×1.57 inches)
Weight	23.0 kg
Front Glass	Low Iron Tempered Glass
Encapsulant	EVA
Frame	Anodized Aluminum Alloy

Temperature Characteristics

NOCT*	45±2°C
Temperature Coefficient of Pmax (%)	-0.40/°C
Temperature Coefficient of Voc (%)	-0.31/°C
Temperature Coefficient of Isc (%)	0.04/°C

Maximum System Ratings

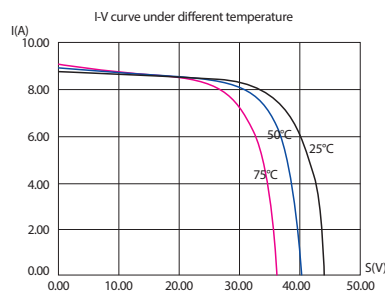
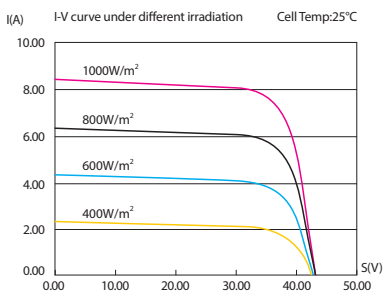
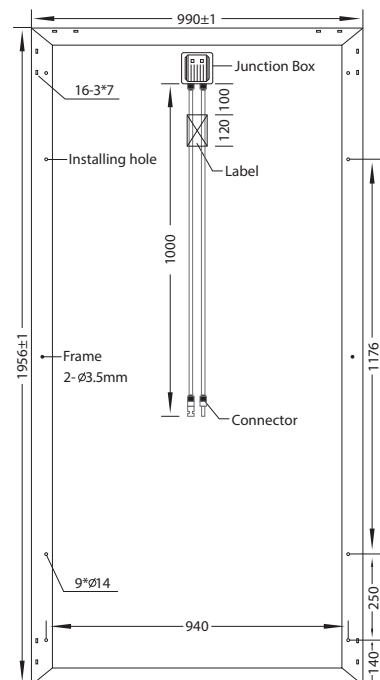
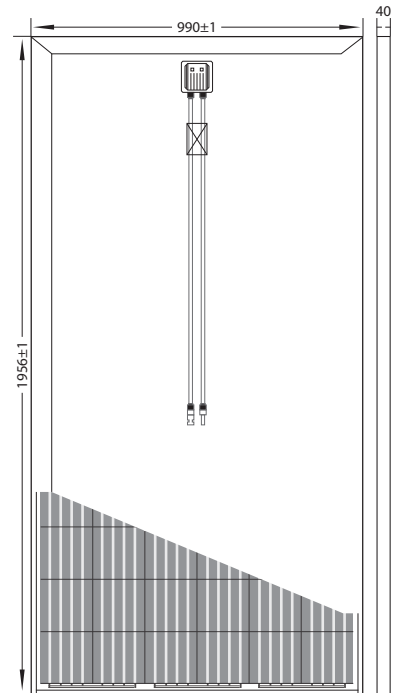
Operating Temperature	-40°C to +80°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	16A

Warranty

12 years product warranty

12 years warranty on 90% power output

25 years warranty on 80% power output



*STC (Standard Testing Conditions): Irradiance 1000 W/m², cell temperature 25 °C, AM=1.5
ambient temperature 20 °C, wind speed 1 m/s

*NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m²,
The specifications in this datasheet are subjected to change without prior notice