

**Technical Specification of JP72F Monocrystalline Modules (PERC)**

**Electrical Parameters at STC\***

Module Model	JP72FAPERC					
Capacity Rating - Pmax (Watt)	350	355	360	370	375	380
Power Tolerance (%)	0-2	0-2	0-2	0-2	0-2	0-2
Module Efficiency (%)	18.08	18.34	18.6	19.12	19.38	19.63
Rated Voltage - Vmp (V)	38.4	38.6	38.8	39.3	39.52	39.75
Rated Current - Imp (A)	9.12	9.2	9.28	9.42	9.49	9.56
Open Circuit Voltage - Voc (V)	47.3	47.5	47.7	48.1	48.4	48.7
Short Circuit Current - Isc (A)	9.48	9.56	9.64	9.78	9.84	9.92

\* STC - Standard Test Condition - Irradiance of 1000W/m<sup>2</sup>, Spectrum AM 1.5 and Cell Temperature of 25°C

**Electrical Parameters at NOCT\***

Capacity Rating - Pmax (Watt)	260.1	263.75	267.42	274.96	278.55	282.24
Rated Voltage - Vmp (V)	35.62	35.81	35.99	36.46	36.66	36.87
Rated Current - Imp (A)	7.3	7.37	7.43	7.54	7.6	7.65
Open Circuit Voltage - VOC (V)	44.08	44.27	44.45	44.83	45.11	45.39
Short Circuit Current - Isc (A)	7.68	7.74	7.81	7.92	7.97	8.03

**Gaurantees and Certification**

Product Warranty	10 Years
Performance Guarantee	Power Output up to 90% for 10 Years and 80% for 25 Years
Product Certification	IEC 61215, IEC 61701, IEC 61730, IEC 62716, IEC 62804, CE, BIS

**Mechanical Specification**

Solar Cells	72 PCS monocrystalline silicon (PERC), SBB
Encapsulation	Ultra - Clear PID Free EVA (Ethylene-Vinyl-acetate)
Backside	UV protected Backsheet
Frame	Silver Anodized Aluminium Alloys
Glass	3.2mm, High Transmission, AR Coated Tempered Glass
Dimensions	1955 (L) x 990 (W) x 35mm (H)
Weight	21.5 Kg
J-Box	IP67/68, 4 rail, 3 diodes Junction box
Cables	Solar cable 400mm To 1200mm length, 1mm <sup>2</sup>
Connectors	MC4 compatible Connectors
Application Glass	Class A
Electrial Safety	Class II
Fire Safety	Class c (Type 1)
Surface load	(snow load 5400pa, Wind load 2400 pa).

**Temperature Co-efficient (%)**

Temperature Coefficient (Voc)	(-).029 /°C
Temperature Coefficient (Isc)	0.05 /°C
Temperature Coefficient (Pmax)	(-).038 /°C

**Acceptable Operating Conditions**

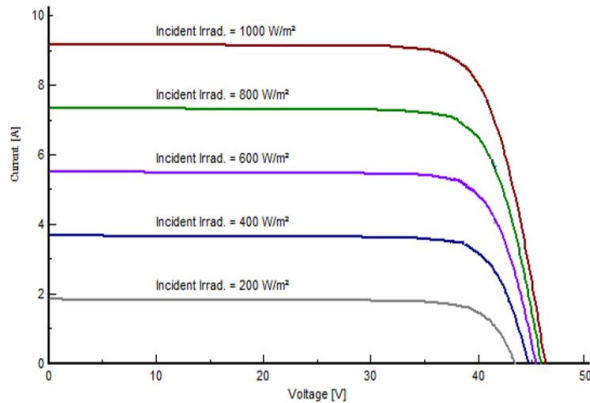
Temperature Range	-40 °C to + 85 °C
Max. System Voltage	1500/1000 VDC
NOCT	45 +/- 2 °C
Hail Resistance	Max. diameter of 25 mm with 23 m/s

**Why JJ PV Solar Panel?**

- Solar Conversion Efficiency upto 17.5 %
- Temperature coefficient losses are minimized
- Positive Power output up to 3%
- 1500 VDC modules connecting more strings and reducing other equipments
- Higher specific Yeild
- Reduced losses in terms of Equipements

**Quality Factors**

- ISO 9001:2015 & iso 14001:2015 Certified Company
- All Weather resistant and high rain and hail tested modules
- 25 Years Output Warranty
- Snow carrying capacity up to 5300Pa, Wind Load up to 2400 Pa)
- IEC 61701 & IEC 62716 Certified for Salt mist and ammonia corrosion resistant panels
- 10 Years Manufacturing defect Warranty
- Best Quality material selected from trusted vendors around the world



**TECHNICAL SPECIFICATIONS**

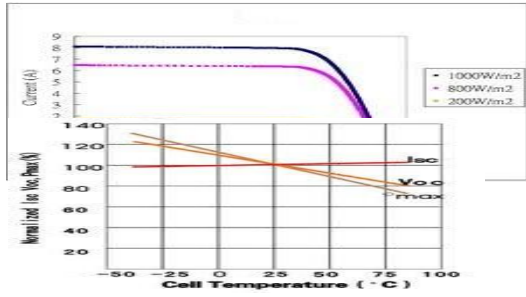
**Electrical Parameters**

Model	JP72F330
Rated Power(Pm) watt ( Nominal )	330
Volt at Max. power(Vmp in Volt)	37.5
Open circuit voltage(Voc in Volt)	46.5
Current at Max. Power(Imp in Amp)	8.8
Short circuit current(Isc in Amp)	9.35
Fill factor(FF in %)	>70
Module efficiency (%)	
>15	>17
>16	>18.8
Cell Efficiency	
Standard Test condition	
Irradiance:1000W/M <sup>2</sup> , Temp: 25°C, & AM	
:1.5G spectrum	
Temp.coeff. Of Pmax(%/K)	
-0.44	
Temp.coeff. Of Voltage(mV/K)	
-2.13	
Temp.coeff. Of current(mA/K)	
4.46	
Max.system voltage(Volt)	
1000	
NOCT (Nominal operat. Cell temp in °c)	
47.0±2	
Tolarence of rated power(%)	
±3	

**Mechanical Parameters**

Family	No. of Cells	Cells	Glass	Alu. Frame	Junction Box	Cable & Connector	Dimension (mm)	Weight (Kg)
JP72F	12x6	156.75 mm Multi - crystalline	High transmission, low iron, tempered and textured glass, 3.2mm	Silver Anodized Aluminum Alloy	IEC/ UL approved IP67 rated 4 terminal junction box with 3 by-pass diodes (25A, 600V)	1Mtr X 2 cable of 4 Sq-mm/12AWG (Black) with MC4 compatible connectors	1960 X 990 X 40	23 kg.

I-V Curve with various irradiance level



**JJ SOLAR**  
 Right Decision - Bright Future

