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# EnergyPal

## **Solar Panel Guide Specification Data Sheet**

**JJ PV Solar Pvt. Ltd.**

**JP48F180-200**

**JP48F190**

Also available on the web at  
[EnergyPal.com/jj-pv-solar-pvt-ltd-solar-panels/jp48f190](http://EnergyPal.com/jj-pv-solar-pvt-ltd-solar-panels/jp48f190)

## POLY CRYSTALLINE MODULES

### JJ PV Solar introduces all new line of high performance modules in wide applications



#### KEY FEATURES

- Our solar Modules offers high conversion efficiency
- Our high performing modules have an industry low tolerance of  $\pm 3\%$
- Can withstand high wind pressure ,snow load & extreme temperature

#### QUALITY & SAFETY

- Application Class A, Safety Class II
- ISO 9001:2008(Quality Management system) and ISO 14001 certified company
- Certified for IEC 61215 and IEC 61730 Safety Standard II and 61701 by TUV Intercert

#### APPLICATIONS

- Off-grid residential roof-tops & other applications
- On-grid commercial/Industrial roof-tops
- Easy Instalation and Handling for Various Applications

#### CHARACTERISTICS

- Type of Cell : Multi Crystalline Cells
- Front Face : Tempered & Textured Glass ( Low iron )
- Frame : Anodized Aluminium, Corner Incert, Screwless
- Junction Box : TUV & UL Approved, IP 65 Protected, With Bypass Diodes
- Warranty : 5 Years Workmanship and 25 Years Linear Power Output



JJ PV Solar Pvt. Ltd.

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## TECHNICAL SPECIFICATIONS

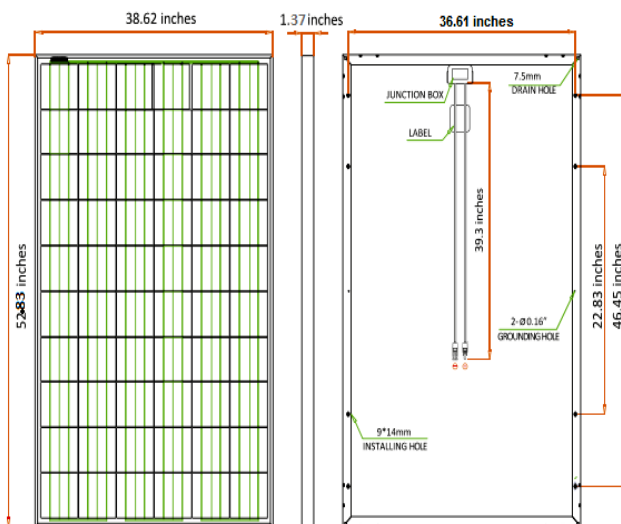
### Electrical Parameters

Model	JP48F180	JP48F190	JP48F200
Rated Power(Pmax) watt	180	190	200
Volt at Max. power(Vmp in volt)	23.7	23.85	24.2
Open circuit voltage(Voc in volt)	27.9	28.4	28.54
Current at Max. Power(Imp in Amp)	7.6	7.95	8.25
Short circuit current(Isc in Amp)	8.32	8.53	8.69
Fill factor(FF)	>70		
Module efficiency (%)	14		
Standard Test condition	Irradiance:1000W/M2 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 operating Cell temp in °c)	47.0±2		
Tolarence of rated power (%)	± 3		

### Mechanical Parameters

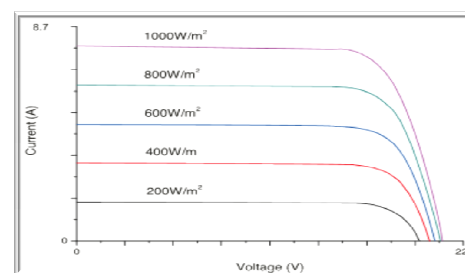
Family	No. of Cells	Cells	Glass	Alu. Frame	Junction Box	Cable & Connector	Dimension	Weight
JP48F	8*6	Poly	High transmission, low iron, tempered and textured glass, 3.2mm	Silver Anodized Aluminum Alloy	IP 65, 4 Rail, 3 Diodes	800 to 1000mm, 4 mm2 With MC4/Tyco Connector	1342 X 981 X 35 (mm) or 52.83 X 38.62 X 1.37 (inch)	15 K.G

### Mounting Dimensions



Drawing Only for Reference

### I-V Curve with various irradiance level



### Dependence of Temperature

