

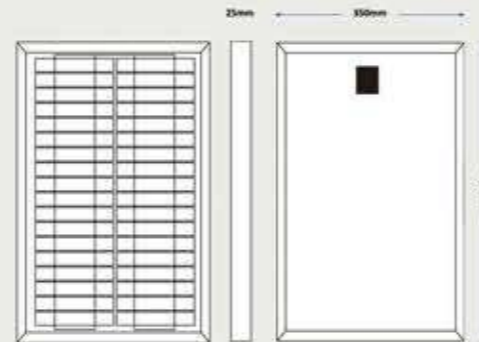
# SOLAR PANEL

## Monocrystalline Module Models

Electrical Specifications	
Model type	20W
Peak power(Pmax)	20W
Cell Efficiency	18.0%
Max. power volt.(Vmp)	17.8V
Max. power current(Imp)	1.13A
Open circuit volt.(Voc)	21.8V
Short circuit volt.(Voc)	1.23A
Power Tolerance	±3%
Max. system voltage	600V
Series fuse rating(A)	
Number of byperature diode	0

Temperature Coefficients	
Current Temperature Coefficient $\alpha$ (Isc)	0.03%/°C
Voltage Temperature Coefficient $\beta$ (Voc)	-0.32%/°C
Power Temperature Coefficient $\gamma$ (Pmax)	-0.42%/°C

Mechanical Characteristics	
Dimensions:	490*350*25mm
Weight:	2.4kg
Solar Cells:	36 cell in series(6x6)
Construction:	High-transmission low-iron tempered glass, EVA,TPT
Frame:	Anodized aluminm is mainly for improving corrosion resistance. Color: silver
Cable	LAPP(4mm <sup>2</sup> )
Lengths	900mm(-) and 900mm(+)
Connector	MC Plug TypeIV



Module Diagram

### Electrical Specifications

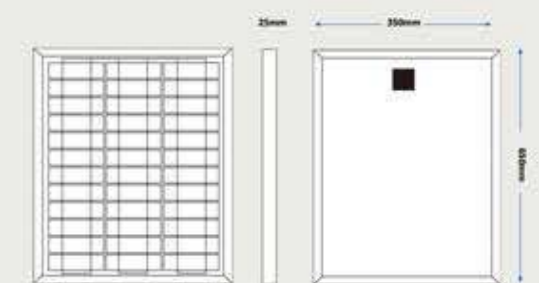
- 5 years manufacturing warranty
- 12 years warranty 90% power output
- 25 years warranty 80% power output

## Monocrystalline Module Models

Electrical Specifications	
Model type	30W
Peak power(Pmax)	30W
Cell Efficiency	18.33%
Max. power volt.(Vmp)	17.8V
Max. power current(Imp)	1.69A
Open circuit volt.(Voc)	21.8V
Short circuit volt.(Voc)	1.85A
Power Tolerance	±3%
Max. system voltage	600V
Series fuse rating(A)	
Number of byperature diode	0

Temperature Coefficients	
Current Temperature Coefficient $\alpha$ (Isc)	0.03%/°C
Voltage Temperature Coefficient $\beta$ (Voc)	-0.32%/°C
Power Temperature Coefficient $\gamma$ (Pmax)	-0.42%/°C

Mechanical Characteristics	
Dimensions:	650*350*25mm
Weight:	3.1kg
Solar Cells:	36 cell in series(4x9)
Construction:	High-transmission low-iron tempered glass, EVA,TPT
Frame:	Anodized aluminm is mainly for improving corrosion resistance. Color: silver
Cable	LAPP(4mm <sup>2</sup> )
Lengths	900mm(-) and 900mm(+)
Connector	MC Plug TypeIV



Module Diagram

### Electrical Specifications

- 5 years manufacturing warranty
- 12 years warranty 90% power output
- 25 years warranty 80% power output





# SOLAR PANEL

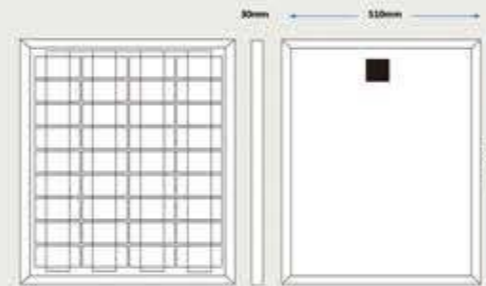
## Monocrystalline Module Models

Electrical Specifications	
Model type	50W
Peak power(Pmax)	50W
Cell Efficiency	18.0%
Max. power volt.(Vmp)	17.8V
Max. power current(Imp)	2.81A
Open circuit volt.(Voc)	21.8V
Short circuit volt.(Voc)	3.05A
Power Tolerance	±3%
Max. system voltage	1000V
Series fuse rating(A)	10
Number of byperature diode	2



Temperature Coefficients	
Current Temperature Coefficient $\alpha$ (Isc)	0.03%/°C
Voltage Temperature Coefficient $\beta$ (Voc)	-0.32%/°C
Power Temperature Coefficient $\gamma$ (Pmax)	-0.42%/°C

Mechanical Characteristics	
Dimensions:	700*510*30mm
Weight:	4.6kg
Solar Cells:	36 cell in series(4x9)
Construction:	High-transmission low-iron tempered glass, EVA, TPT
Frame:	Anodized aluminm is mainly for improving corrosion resistance. Color: silver
Cable	LAPP(4mm <sup>2</sup> )
Lengths	900mm(-) and 900mm(+)
Connector	MC Plug TypeIV



Module Diagram

### Electrical Specifications

- 5 years manufacturing warranty
- 12 years warranty 90% power output
- 25 years warranty 80% power output

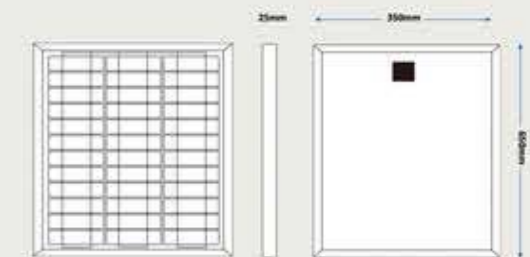
## Monocrystalline Module Models

Electrical Specifications	
Model type	80W
Peak power(Pmax)	80W
Cell Efficiency	18.33%
Max. power volt.(Vmp)	17.5V
Max. power current(Imp)	4.58A
Open circuit volt.(Voc)	21.8V
Short circuit volt.(Voc)	4.93A
Power Tolerance	±3%
Max. system voltage	800V
Series fuse rating(A)	10
Number of byperature diode	2



Temperature Coefficients	
Current Temperature Coefficient $\alpha$ (Isc)	0.03%/°C
Voltage Temperature Coefficient $\beta$ (Voc)	-0.32%/°C
Power Temperature Coefficient $\gamma$ (Pmax)	-0.42%/°C

Mechanical Characteristics	
Dimensions:	1100*510*30mm
Weight:	7.5kg
Solar Cells:	36 cell in series(4x9)
Construction:	High-transmission low-iron tempered glass, EVA, TPT
Frame:	Anodized aluminm is mainly for improving corrosion resistance. Color: silver
Cable	LAPP(4mm <sup>2</sup> )
Lengths	900mm(-) and 900mm(+)
Connector	MC Plug TypeIV



Module Diagram

### Electrical Specifications

- 5 years manufacturing warranty
- 12 years warranty 90% power output
- 25 years warranty 80% power output





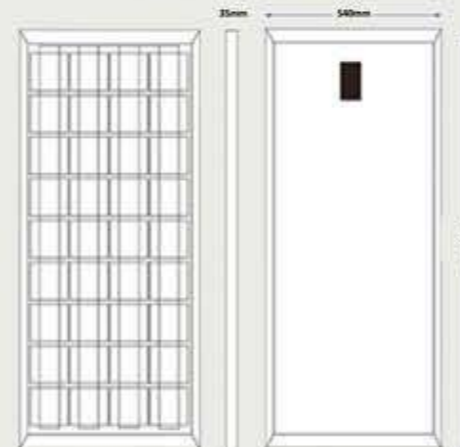
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## Monocrystalline Module Models

Electrical Specifications	
Model type	100W
Peak power(Pmax)	100W
Cell Efficiency	18.0%
Max. power volt.(Vmp)	17.8V
Max. power current(Imp)	5.62A
Open circuit volt.(Voc)	21.8V
Short circuit volt.(Voc)	6.05A
Power Tolerance	±3%
Max. system voltage	1000V
Series fuse rating(A)	10
Number of byperature diode	2

Temperature Coefficients	
Current Temperature Coefficient $\alpha$ (Isc)	0.03%/°C
Voltage Temperature Coefficient $\beta$ (Voc)	-0.32%/°C
Power Temperature Coefficient $\gamma$ (Pmax)	-0.42%/°C

Mechanical Characteristics	
Dimensions:	1200*540*35mm
Weight:	9kg
Solar Cells:	36 cell in series(4x9)
Construction:	High-transmission low-iron tempered glass, EVA,TPT
Frame:	Anodized aluminm is mainly for improving corrosion resistance. Color: silver
Cable	LAPP(4mm <sup>2</sup> )
Lengths	900mm(-) and 900mm(+)
Connector	MC Plug TypeIV



Module Diagram

### Electrical Specifications

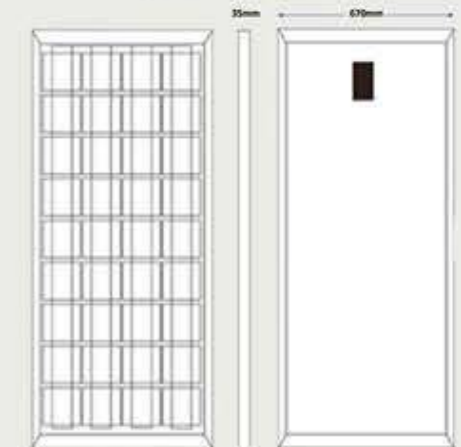
- 5 years manufacturing warranty
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## Monocrystalline Module Models

Electrical Specifications	
Model type	150W
Peak power(Pmax)	150W
Cell Efficiency	18.0%
Max. power volt.(Vmp)	17.8V
Max. power current(Imp)	8.43A
Open circuit volt.(Voc)	21.8V
Short circuit volt.(Voc)	9.08A
Power Tolerance	±3%
Max. system voltage	1000V
Series fuse rating(A)	10
Number of byperature diode	2

Temperature Coefficients	
Current Temperature Coefficient $\alpha$ (Isc)	0.03%/°C
Voltage Temperature Coefficient $\beta$ (Voc)	-0.32%/°C
Power Temperature Coefficient $\gamma$ (Pmax)	-0.42%/°C

Mechanical Characteristics	
Dimensions:	1480*670*35mm
Weight:	12.5kg
Solar Cells:	36 cell in series(4x9)
Construction:	High-transmission low-iron tempered glass, EVA,TPT
Frame:	Anodized aluminm is mainly for improving corrosion resistance. Color: silver
Cable	LAPP(4mm <sup>2</sup> )
Lengths	900mm(-) and 900mm(+)
Connector	MC Plug TypeIV



Module Diagram

### Electrical Specifications

- 5 years manufacturing warranty
- 12 years warranty 90% power output
- 25 years warranty 80% power output





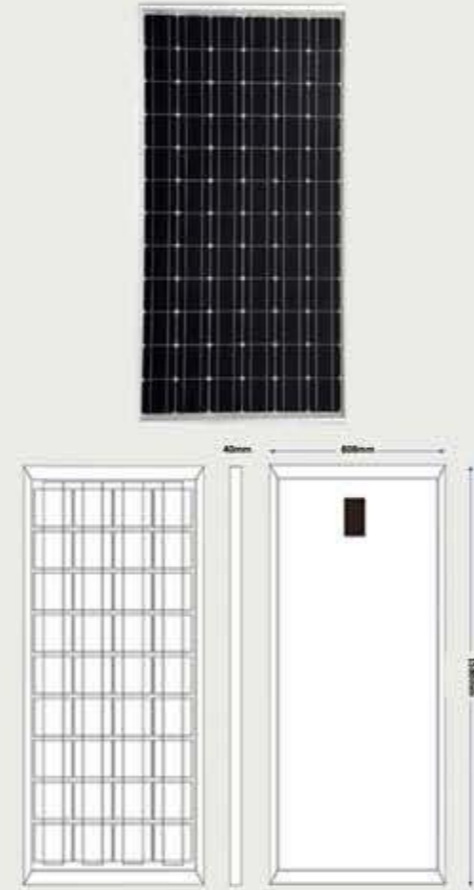
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## Monocrystalline Module Models

Electrical Specifications	
Model type	200W
Peak power(Pmax)	200W
Cell Efficiency	18.0%
Max. power volt.(Vmp)	35.8V
Max. power current(Imp)	5.59A
Open circuit volt.(Voc)	44V
Short circuit volt.(Voc)	6.08A
Power Tolerance	±3%
Max. system voltage	1000V
Series fuse rating(A)	10
Number of byperature diode	2

Temperature Coefficients	
Current Temperature Coefficient $\alpha$ (Isc)	0.03%/°C
Voltage Temperature Coefficient $\beta$ (Voc)	-0.32%/°C
Power Temperature Coefficient $\gamma$ (Pmax)	-0.42%/°C

Mechanical Characteristics	
Dimensions:	1580*808*40mm
Weight:	15.0kg
Solar Cells:	72 cell in series(6x12)
Construction:	High-transmission low-iron tempered glass, EVA, TPT
Frame:	Anodized aluminm is mainly for improving corrosion resistance. Color: silver
Cable	LAPP(4mm <sup>2</sup> )
Lengths	900mm(-) and 900mm(+)
Connector	MC Plug TypeIV



Module Diagram

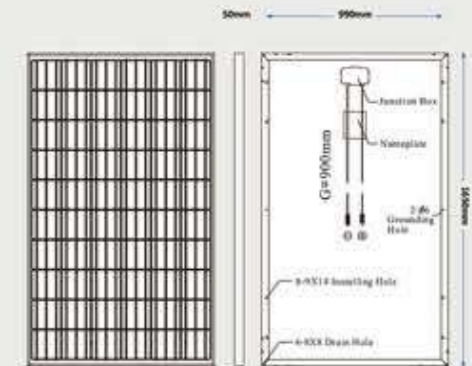
- Electrical Specifications
- 5 years manufacturing warranty
  - 12 years warranty 90% power output
  - 25 years warranty 80% power output

## Monocrystalline Module Models

Electrical Specifications	
Model type	250W
Peak power(Pmax)	250W
Cell Efficiency	18.33%
Max. power volt.(Vmp)	30V
Max. power current(Imp)	8.34A
Open circuit volt.(Voc)	36.8V
Short circuit volt.(Voc)	9A
Power Tolerance	±3%
Max. system voltage	1000V
Series fuse rating(A)	15
Number of byperature diode	6

Temperature Coefficients	
Current Temperature Coefficient $\alpha$ (Isc)	0.03%/°C
Voltage Temperature Coefficient $\beta$ (Voc)	-0.32%/°C
Power Temperature Coefficient $\gamma$ (Pmax)	-0.42%/°C

Mechanical Characteristics	
Dimensions:	1650*990*50mm
Weight:	18.6kg
Solar Cells:	60 cell in series(6x10)
Construction:	High-transmission low-iron tempered glass, EVA, TPT
Frame:	Anodized aluminm is mainly for improving corrosion resistance. Color: silver
Cable	LAPP(4mm <sup>2</sup> )
Lengths	900mm(-) and 900mm(+)
Connector	MC Plug TypeIV



Module Diagram

- Electrical Specifications
- 5 years manufacturing warranty
  - 12 years warranty 90% power output
  - 25 years warranty 80% power output





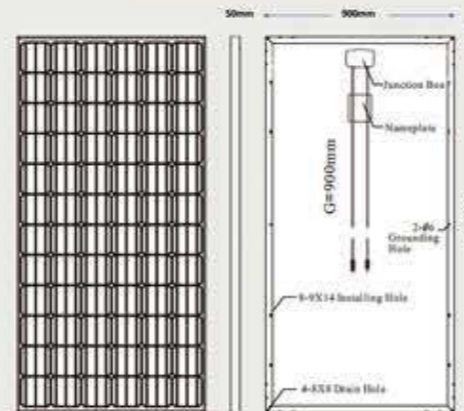
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## Monocrystalline Module Models

Electrical Specifications	
Model type	280W
Peak power(Pmax)	280W
Cell Efficiency	16.93%
Max. power volt.(Vmp)	30.85V
Max. power current(Imp)	8.11A
Open circuit volt.(Voc)	36.92V
Short circuit volt.(Voc)	8.45A
Power Tolerance	±3%
Max. system voltage	1000V
Series fuse rating(A)	15
Number of byperature diode	6

Temperature Coefficients	
Current Temperature Coefficient $\alpha$ (Isc)	0.03%/°C
Voltage Temperature Coefficient $\beta$ (Voc)	-0.32%/°C
Power Temperature Coefficient $\gamma$ (Pmax)	-0.42%/°C

Mechanical Characteristics	
Dimensions:	1950*900*50mm
Weight:	25kg
Solar Cells:	72 cell in series(6x12)
Construction:	High-transmission low-iron tempered glass, EVA,TPT
Frame:	Anodized aluminm is mainly for improving corrosion resistance. Color: silver
Cable	LAPP(4mm <sup>2</sup> )
Lengths	900mm(-) and 900mm(+)
Connector	MC Plug TypeIV



Module Diagram

### Electrical Specifications

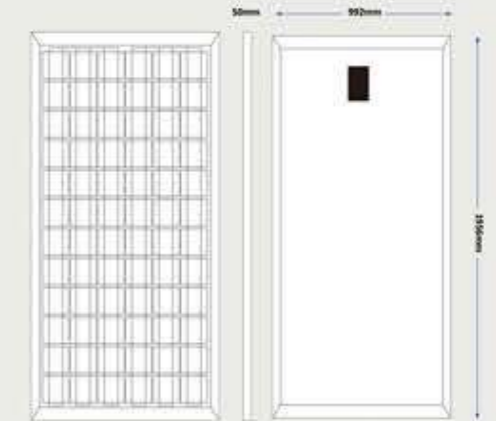
- 5 years manufacturing warranty
- 12 years warranty 90% power output
- 25 years warranty 80% power output

## Monocrystalline Module Models

Electrical Specifications	
Model type	300W
Peak power(Pmax)	300W
Cell Efficiency	18.33%
Max. power volt.(Vmp)	35.8V
Max. power current(Imp)	8.38A
Open circuit volt.(Voc)	44V
Short circuit volt.(Voc)	9.05A
Power Tolerance	±3%
Max. system voltage	1000V
Series fuse rating(A)	15
Number of byperature diode	6

Temperature Coefficients	
Current Temperature Coefficient $\alpha$ (Isc)	0.03%/°C
Voltage Temperature Coefficient $\beta$ (Voc)	-0.32%/°C
Power Temperature Coefficient $\gamma$ (Pmax)	-0.42%/°C

Mechanical Characteristics	
Dimensions:	1950*990*50mm
Weight:	25kg
Solar Cells:	72 cell in series(6x12)
Construction:	High-transmission low-iron tempered glass, EVA,TPT
Frame:	Anodized aluminm is mainly for improving corrosion resistance. Color: silver
Cable	LAPP(4mm <sup>2</sup> )
Lengths	900mm(-) and 900mm(+)
Connector	MC Plug TypeIV



Module Diagram

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- 5 years manufacturing warranty
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