

# Solar Panels

## Polycrystalline Series 5W-90W



### Features :

- Long service life .
- High efficiency solar cells .
- Special aluminum frame design.
- High transmission ,low iron tempered glass.
- Advanced cell encapsulation.

### Applications :

- Solar power stations.
- Rural electrification , small home power systems.
- Power supply for traffic , security , gas industry.
- 12V and 24V battery charging system .
- Other industrial and commercial applications.

### Guaranteed Performance :

- 10 years manufacturing warranty
- 12 years 90% power warranty
- 25 years 80% power warranty

### 5W

Cells	
Cell type	Polycrystalline
Dimension	300*200*15mm
Net.weight	1kg
Front glass	3.2mm tempered low iron
Frame	Anodized aluminum
Junction box	IP67, with bypass diodes
Connector	MC4 compatible
Output cables	TUV, 900mm length, 4.0mm <sup>2</sup>

Electrical characteristics	
Pmax(W)	5W
Voc(V)	21.5
Imp(A)	0.28
Vmp(V)	18
Isc(A)	0.3
Power tolerance	0~+3%

### 10-15W

Cells		
Cell type	Polycrystalline	
Dimension	250*350*17mm	375*350*25mm
Net.weight	1.2kg	1.8kgs
Front glass	3.2mm tempered low iron	
Frame	Anodized aluminum	
Junction box	IP67, with bypass diodes	
Connector	MC4 compatible	
Output cables	TUV, 900mm length, 4.0mm <sup>2</sup>	

Electrical characteristics		
Pmax(W)	10W	15W
Voc(V)	22.5	21.6
Imp(A)	0.56	0.8
Vmp(V)	18	18
Isc(A)	0.61	0.9
Power tolerance	0~+3%	

### 20-30W

Cells		
Cell type	Polycrystalline	
Dimension	470*344*25mm	340*680*25mm
Net.weight	2.5kg	3.3kg
Front glass	3.2mm tempered low iron	
Frame	Anodized aluminum	
Junction box	IP67, with bypass diodes	
Connector	MC4 compatible	
Output cables	TUV, 900mm length, 4.0mm <sup>2</sup>	

Electrical characteristics		
Pmax(W)	20W	30W
Voc(V)	21.6	21.6
Imp(A)	1.16	1.74
Vmp(V)	17.28	17.28
Isc(A)	1.22	1.83
Power tolerance	0~+3%	

### 40-50W

Cells		
Cell type	Polycrystalline	
Dimension	415*680*35mm	530*680*35mm
Net.weight	4.2kg	5.2kg
Front glass	3.2mm tempered low iron	
Frame	Anodized aluminum	
Junction box	IP67, with bypass diodes	
Connector	MC4 compatible	
Output cables	TUV, 900mm length, 4.0mm <sup>2</sup>	

Electrical characteristics		
Pmax(W)	40W	50W
Voc(V)	21.6	21.6
Imp(A)	2.32	2.9
Vmp(V)	17.28	17.28
Isc(A)	2.44	3.05
Power tolerance	0~+3%	

### 60-90W

Cells		
Cell type	Polycrystalline	
Dimension	620*680*35mm/710*680*35mm	
Net.weight	770*680*35mm/880*680*35mm	
Front glass	5.9kg/6.5kg/8.5kg/9kg	
Frame	3.2mm tempered low iron	
Junction box	IP67, with bypass diodes	
Connector	MC4 compatible	
Output cables	TUV, 900mm length, 4.0mm <sup>2</sup>	

Electrical characteristics				
Pmax(W)	60W	70W	80W	90W
Voc(V)	3.66	4.27	4.95	5.57
Imp(A)	21.6	21.6	21.6	21.6
Vmp(V)	3.48	4.05	4.44	5
Isc(A)	17.28	17.28	18	18
Power tolerance	0~+3%			