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Solar Panel Guide

Specification Data Sheet

Learn more at energypal.com/best-solar-panels-for-homes

SOLAR PANEL

50Watt Maximum power

Mono-crystalline solar panel
Poly-crystalline solar panel

Features

- High conversion efficiency based on leading innovative photovoltaic technologies
- High stability with guaranteed+/- 3%power output tolerance,ensuring return on investment
- Beautiful appearance
- Withstands high wind – pressure and snow load
- Easy to install

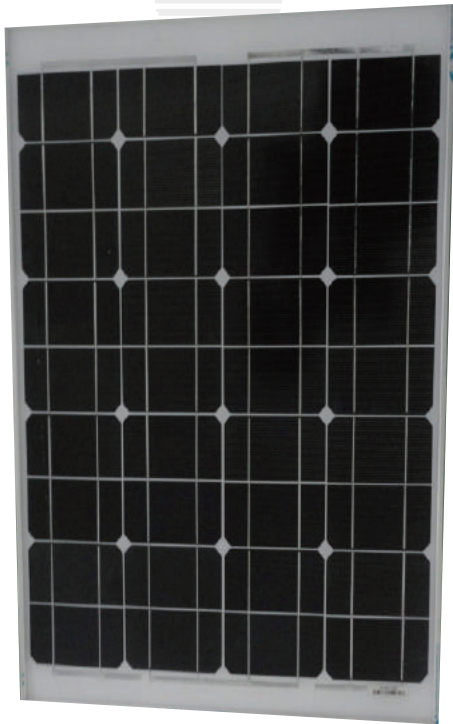
Quality and safety

- 25-year power output warranty with China Pacific Property Insurance Co.,Ltd
- Rigorous quality control meeting the highest international standards
- ISO 9001: 2008(Quality Management System)certified factories manufacturing world-class products

Recommended Applications

- On-grid utility systems
- On-grid commercial systems
- Off-grid ground mounted systems

BYSP-5 BYSP-30
BYSP-10 BYSP-40
BYSP-15 BYSP-45
BYSP-20 BYSP-50

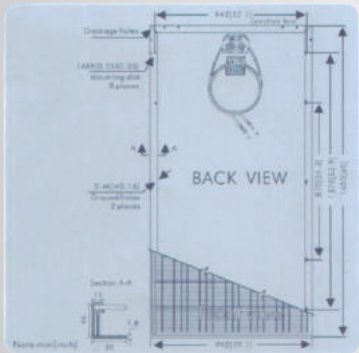


Qualifications and certificates



Electrical Characteristics

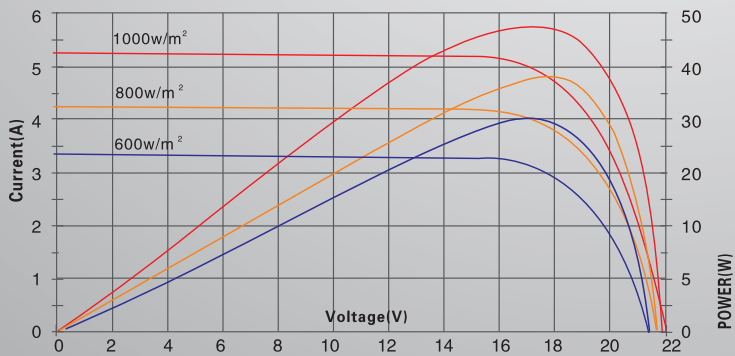
Characteristics	BYSP-5	BYSP-10	BYSP-15	BYSP-20	BYSP-30	BYSP-40	BYSP-45	BYSP-50
Open-Circuit Voltage(Voc)	21	21.2	21.4	21.4	21.4	21.6	21.6	21.6
Optimum Operating Voltage(Vmp)	16.8	17	17.2	17.2	17.2	17.4	17.66	17.6
Short-Circuit Current(Isc)	0.38	0.68	1.06	1.4	1.96	2.72	2.89	3.16
Optimum Operating Current(Imp)	0.3	0.59	0.88	1.17	1.75	2.3	2.56	2.85
Maximum power at STC(Pmax)	5W	10W	15W	20W	30W	40W	45W	50W
Operating Temperature	-40°Cto+85°C							
Maximum System Voltage	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC
Series Fuse Rating	11A	11A	11A	11A	11A	11A	11A	11A
Power Tolerance	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%
NO.of Cells	36							72
Dimensions (MM)	285×185×20	350×285×23	440×290×23	639×294×23	570×414×23	535×510×23	535×510×23	685×510×25
Weight (KG)	0.7	1.4	2.1	2.4	2.5	5.2	5.2	5.5
Front Glass	3.2mm tempered glass							
Frame	Anodised aluminium alloy							
Junction Box	PV box2						PV-RH701	



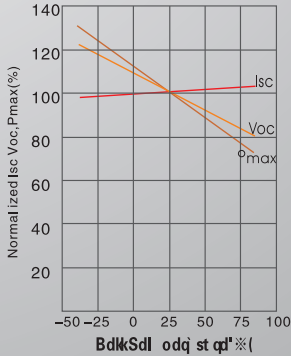
Temperature Coefficents

Nominal Operating Cell Temperature(NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.48%/°C
Temperature Coefficient of Voc	-0.34%/°C
Temperature Coefficient of Isc	-0.017%/°C

Current-Voltage&Power-Voltage Curve(40W)



Temperature Dependence of Isc,Voc,Pmax



130Watt Maximum power

Mono-crystalline solar panel

Poly-crystalline solar panel

Features

- High conversion efficiency based on leading innovative photovoltaic technologies
- High stability with guaranteed+/- 3%power output tolerance,ensuring return on investment
- Beautiful appearance
- Withstands high wind – pressure and snow load
- Easy to install

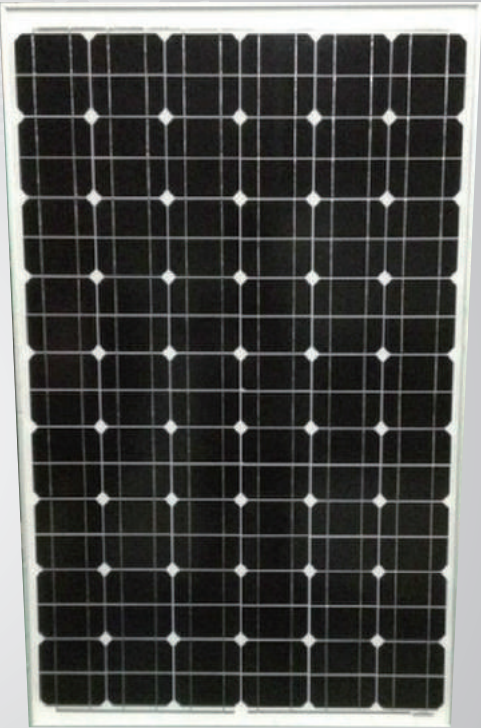
Quality and safety

- 25-year power output warranty with China Pacific Property Insurance Co.,Ltd
- Rigorous quality control meeting the highest international standards
- ISO 9001: 2008(Quality Management System)certified factories manufacturing world-class products

Recommended Applications

- On-grid utility systems
- On-grid commercial systems
- Off-grid ground mounted systems

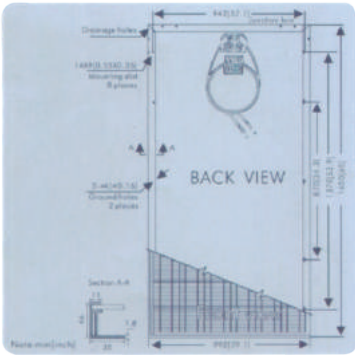
Qualifications and certificates



BYSP-60 BYSP-100
BYSP-70 BYSP-110
BYSP-80 BYSP-120
BYSP-90 BYSP-130

Electrical Characteristics

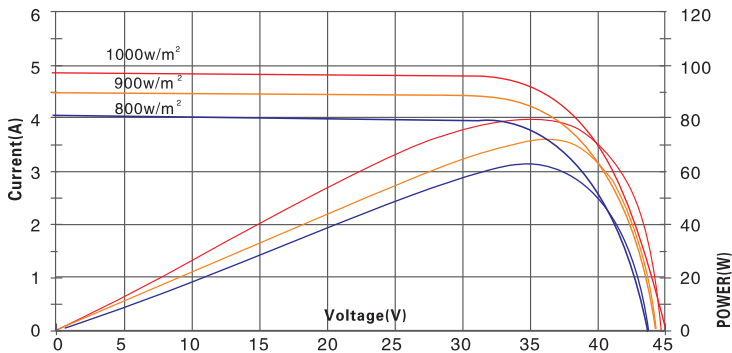
Characteristics	BYSP-60	BYSP-70	BYSP-80	BYSP-90	BYSP-100	BYSP-110	BYSP-120	BYSP-130
Open–Circuit Voltage(Voc)	21.8	21.4	21.8	21.8	22	21.4	21.6	21.6
Optimum Operating Voltage(Vmp)	17.8	17.2	17.6	17.8	18	17.2	17.4	17.6
Short–Circuit Current(Isc)	3.85	4.56	5.23	5.6	6.12	6.86	7.42	7.83
Optimum Operating Current(Imp)	3.38	4.07	4.55	5.06	5.56	6.4	6.9	7.39
Maximum power at STC(Pmax)	60W	70W	80W	90W	100W	110W	120W	130W
Operating Temperature	–40°Cto+85°C							
Maximum System Voltage	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC
Series Fuse Rating	11A	11A	11A	15A	15A	15A	15A	15A
Power Tolerance	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%
NO.of Cells	72	36				108		
Dimensions (MM)	835×540×28	910×510×28	1000×510×28	1100×510×28	1210×540×28	1250×808×35	1250×808×35	1250×808×35
Weight (KG)	5.5	8.2				11.8		
Front Glass	3.2mm tempered glass							
Frame	Anodised aluminium alloy							
Junction Box	PV –Rh701					PV–RH701		



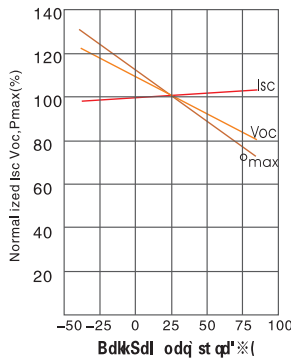
Temperature Coefficients

Nominal Operating Cell Temperature(NOCT)	45±2℃
Temperature Coefficient of Pmax	-0.48%/℃
Temperature Coefficient of Voc	-0.34%/℃
Temperature Coefficient of Isc	-0.017%/℃

Current-Voltage&Power-Voltage Curve(80W)



Temperature Dependence of Isc,Voc,Pmax



SOLAR PANEL

200Watt Maximum power

Mono-crystalline solar panel

Features

- High conversion efficiency based on leading innovative photovoltaic technologies
- High stability with guaranteed+/- 3%power output tolerance,ensuring return on investment
- Beautiful appearance
- Withstands high wind – pressure and snow load
- Easy to install

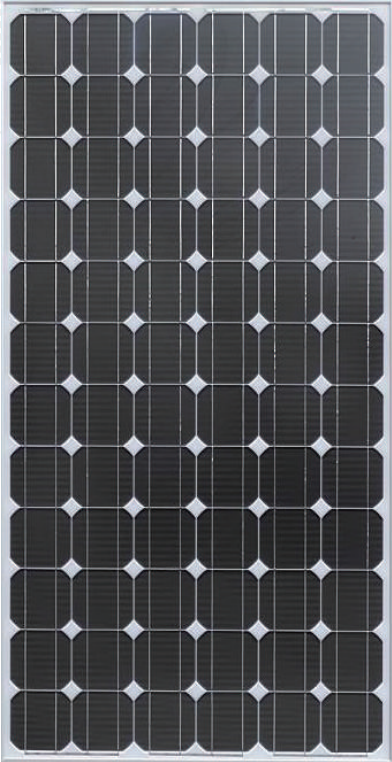
Quality and safety

- 25-year power output warranty with China Pacific Property Insurance Co.,Ltd
- Rigorous quality control meeting the highest international standards
- ISO 9001: 2008(Quality Management System)certified factories manufacturing world-class products

Recommended Applications

- On-grid utility systems
- On-grid commercial systems
- Off-grid ground mounted systems

BYSP-140 BYSP-180
BYSP-150 BYSP-190
BYSP-160 BYSP-200
BYSP-170

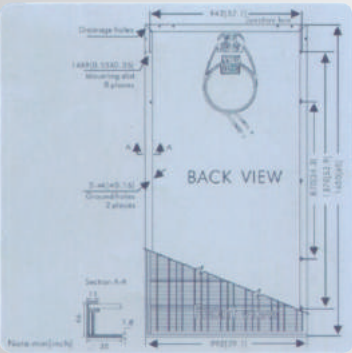


Qualifications and certificates



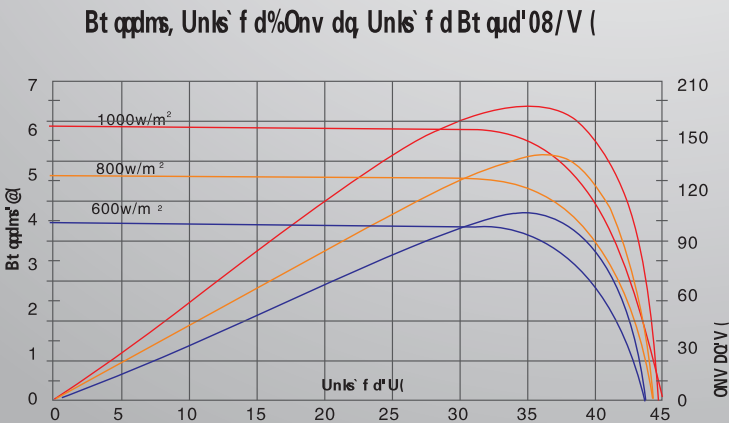
Electrical Characteristics

Characteristics	BYSP-140	BYSP-150	BYSP-160	BYSP-170	BYSP-180	BYSP-190	BYSP-200
Open–Circuit Voltage(Voc)	21.6	21.8	43	4.3	44.3	45.2	46.158
Optimum Operating Voltage(Vmp)	17.8	18	34.4	36.1	36.73	37.2	37.8
Short–Circuit Current(Isc)	8.36	8.62	5	5.2	5.32	5.56	5.78
Optimum Operating Current(Imp)	7.87	8.34	4.66	4.71	4.91	5.1	5.3
Maximum power at STC(Pmax)	140W	150W	160W	170W	180W	190W	100W
Operating Temperature	–40℃to+85℃						
Maximum System Voltage	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC
Series Fuse Rating	15A	15A	15A	15A	15A	15A	15A
Power Tolerance	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%
NO.of Cells	108		72				
Dimensions (MM)	1250×808×35	1250×808×35	1580×808×35	1580×808×35	1580×808×35	1580×808×35	1580×808×35
Weight (KG)	11.8		8.2				
Front Glass	3.2mm tempered glass						
Frame	Anodised aluminium alloy						
Junction Box	PV 0701 (TUV)						

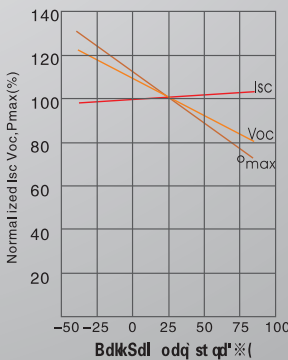


Temperature Coefficents

Nominal Operating Cell Temperature(NOCT)	45±2℃
Temperature Coefficient of Pmax	-0.48%/℃
Temperature Coefficient of Voc	-0.34%/℃
Temperature Coefficient of Isc	-0.017%/℃



Temperature Dependence of Isc,Voc,Pmax





SOLAR PANEL

250Watt Maximum power

Mono-crystalline solar panel Poly-crystalline solar panel

Features

- High conversion efficiency based on leading innovative photovoltaic technologies
- High stability with guaranteed+/- 3%power output tolerance,ensuring return on investment
- Beautiful appearance
- Withstands high wind – pressure and snow load
- Easy to install

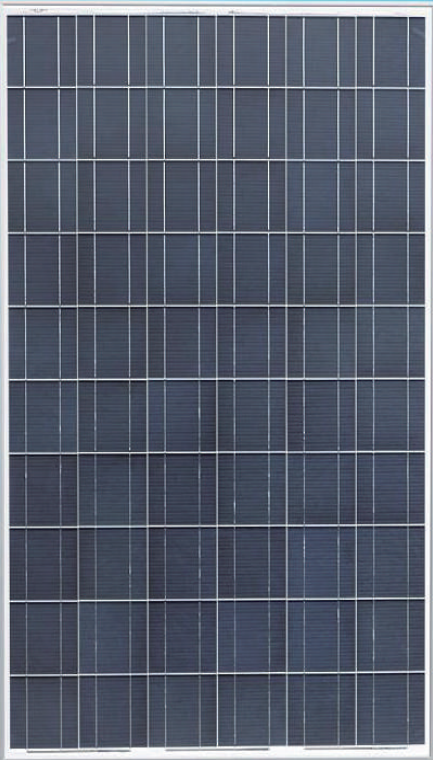
Quality and safety

- 25-year power output warranty with China Pacific Property Insurance Co.,Ltd
- Rigorous quality control meeting the highest international standards
- ISO 9001: 2008(Quality Management System)certified factories manufacturing world-class products

Recommended Applications

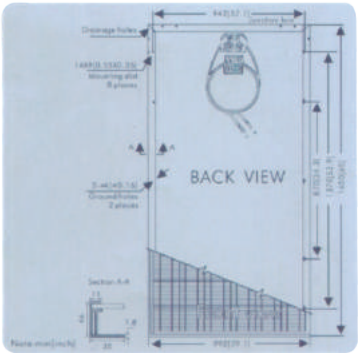
- On-grid utility systems
- On-grid commercial systems
- Off-grid ground mounted systems

BYSP-210 BYSP-240
BYSP-220 BYSP-250
BYSP-230



Electrical Characteristics

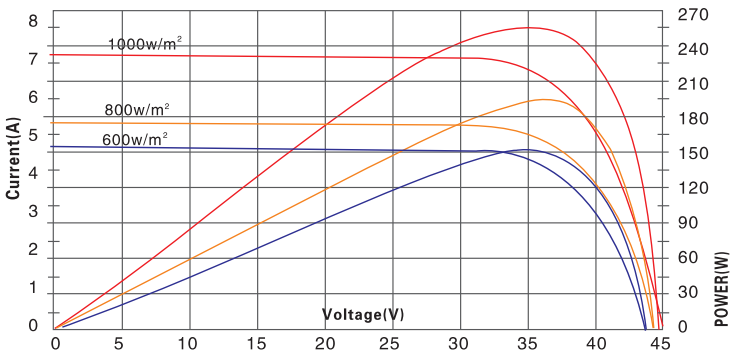
Characteristics	BYSP-210	BYSP-220	BYSP-230	BYSP-240	BYSP-250
Open-Circuit Voltage(Voc)	36.6	36.8	37	37.5	43.3
Optimum Operating Voltage(Vmp)	29.4	29.8	30	30.6	34.4
Short-Circuit Current(Isc)	7.62	8	8.18	8.38	8.05
Optimum Operating Current(Imp)	6.8	7.39	7.66	7.48	7.27
Maximum power at STC(Pmax)	210W	220W	230W	240W	250W
Operating Temperature	-40℃to+85℃				
Maximum System Voltage	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC
Series Fuse Rating	20A	20A	20A	20A	20A
Power Tolerance	± 3%	± 3%	± 3%	± 3%	± 3%
NO.of Cells	60				72
Dimensions (MM)	1650×992×40	1650×992×40	1650×992×40	1650×992×40	1650×992×40
Weight (KG)	19				
Front Glass	3.2mm tempered glass				
Frame	Anodised aluminium alloy				
Junction Box	PV-320 (TUV)				



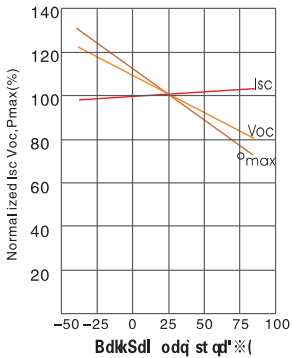
Temperature Coefficients

Nominal Operating Cell Temperature(NOCT)	45±2℃
Temperature Coefficient of Pmax	-0.48%/℃
Temperature Coefficient of Voc	-0.34%/℃
Temperature Coefficient of Isc	-0.017%/℃

Current-Voltage&Power-Voltage Curve(240W)



Temperature Dependence of Isc,Voc,Pmax



SOLAR PANEL

300Watt Maximum power

Mono-crystalline solar panel Poly-crystalline solar panel

Features

- High conversion efficiency based on leading innovative photovoltaic technologies
- High stability with guaranteed+/- 3%power output tolerance,ensuring return on investment
- Beautiful appearance
- Withstands high wind – pressure and snow load
- Easy to install

Quality and safety

- 25-year power output warranty with China Pacific Property Insurance Co.,Ltd
- Rigorous quality control meeting the highest international standards
- ISO 9001: 2008(Quality Management System)certified factories manufacturing world–class products

Recommended Applications

- On-grid utility systems
- On-grid commercial systems
- Off-grid ground mounted systems

BYSP-260 BYSP-290
BYSP-270 BYSP-300
BYSP-280

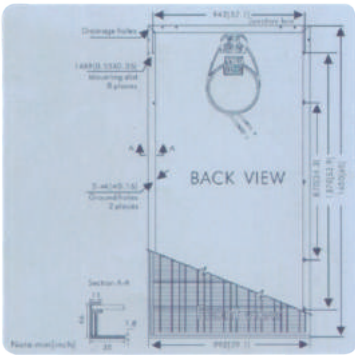


Qualifications and certificates



Electrical Characteristics

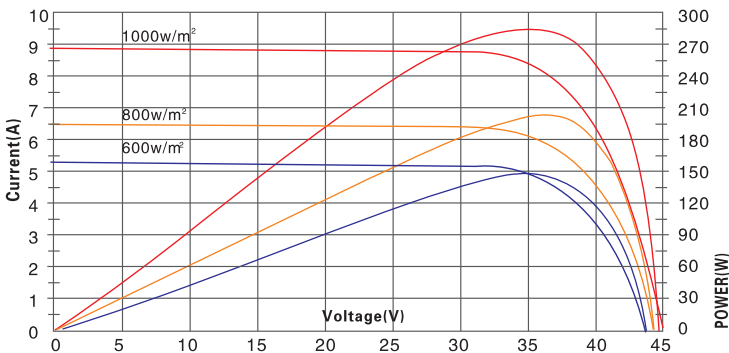
Characteristics	BYSP-260	BYSP-270	BYSP-280	BYSP-290	BYSP-300
Open–Circuit Voltage(Voc)	43.5	43.7	43.9	44.3	45
Optimum Operating Voltage(Vmp)	34.7	35	35.2	35.6	36
Short–Circuit Current(Isc)	8.21	8.4	8.71	8.96	9.21
Optimum Operating Current(Imp)	7.5	7.72	7.96	8.15	8.34
Maximum power at STC(Pmax)	260W	270W	280W	290W	300W
Operating Temperature	-40℃to+85℃				
Maximum System Voltage	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC
Series Fuse Rating	20A	20A	20A	20A	20A
Power Tolerance	± 3%	± 3%	± 3%	± 3%	± 3%
NO.of Cells	72				
Dimensions (MM)	1650 x 992 x 40	1650 x 992 x 40	1956 x 992 x 45	1956 x 992 x 45	1956 x 992 x 45
Weight (KG)	19				
Front Glass	3.2mm tempered glass				
Frame	Anodised aluminium alloy				
Junction Box	PV-320 (TUV)				



Temperature Coefficients

Nominal Operating Cell Temperature(NOCT)	45 ± 2℃
Temperature Coefficient of Pmax	-0.48%/℃
Temperature Coefficient of Voc	-0.34%/℃
Temperature Coefficient of Isc	-0.017%/℃

Current–Voltage&Power–Voltage Curve(290W)



Temperature Dependence of Isc,Voc,Pmax

