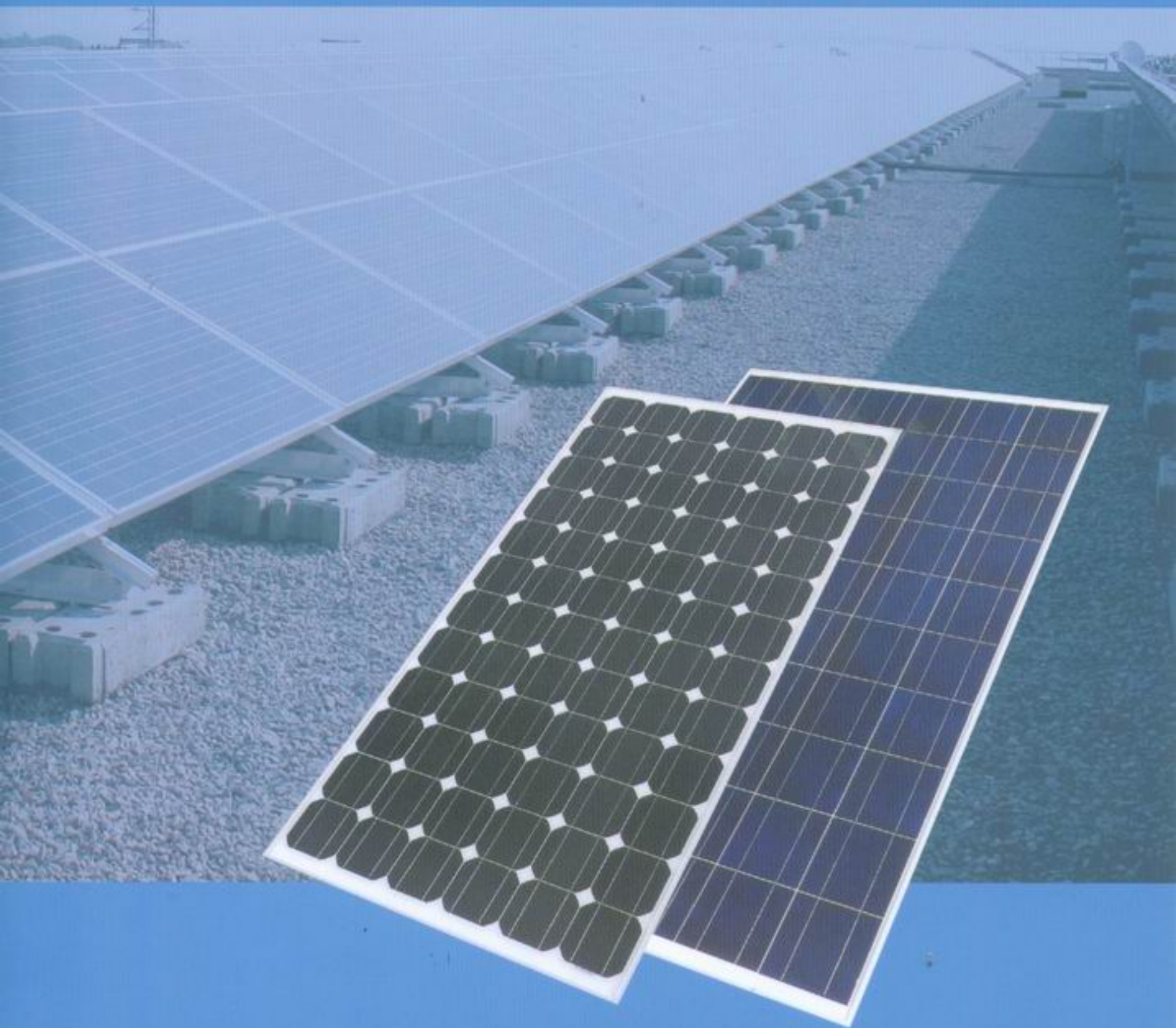




启鑫光电

Qixin Solar Electrical Appliance

NINGBO QIXIN SOLAR ELECTRICAL APPLIANCE CO., LTD



TUV CE IEC ISO 9001

INTRODUCTION

NINGBO QIXIN SOLAR ELECTRICAL APPLIANCE CO.,LTD.

Ningbo Qixin Solar Electrical Appliance Co., Ltd. is a high-tech enterprise engaged in the research and development and use of solar energy resources with a combination of various solar energy technology and professional staff. The company uses advanced international machine, strict quality control process and complete production process and produces all kinds of models and specification of mono-crystalline silicon and polycrystalline silicon solar energy components and its quality conforms to the standard completely. The company also use core material solar energy components from own production to produce other particular application products and projects.

Profile

Total area: 12000 square meters

Location of head factory : Ningbo Zhejiang China(mainland)

Staff details

Production staff: 400 to 500

QC Staff: 30 to 40

Production capacity

60MW/year above

Site advantages/description

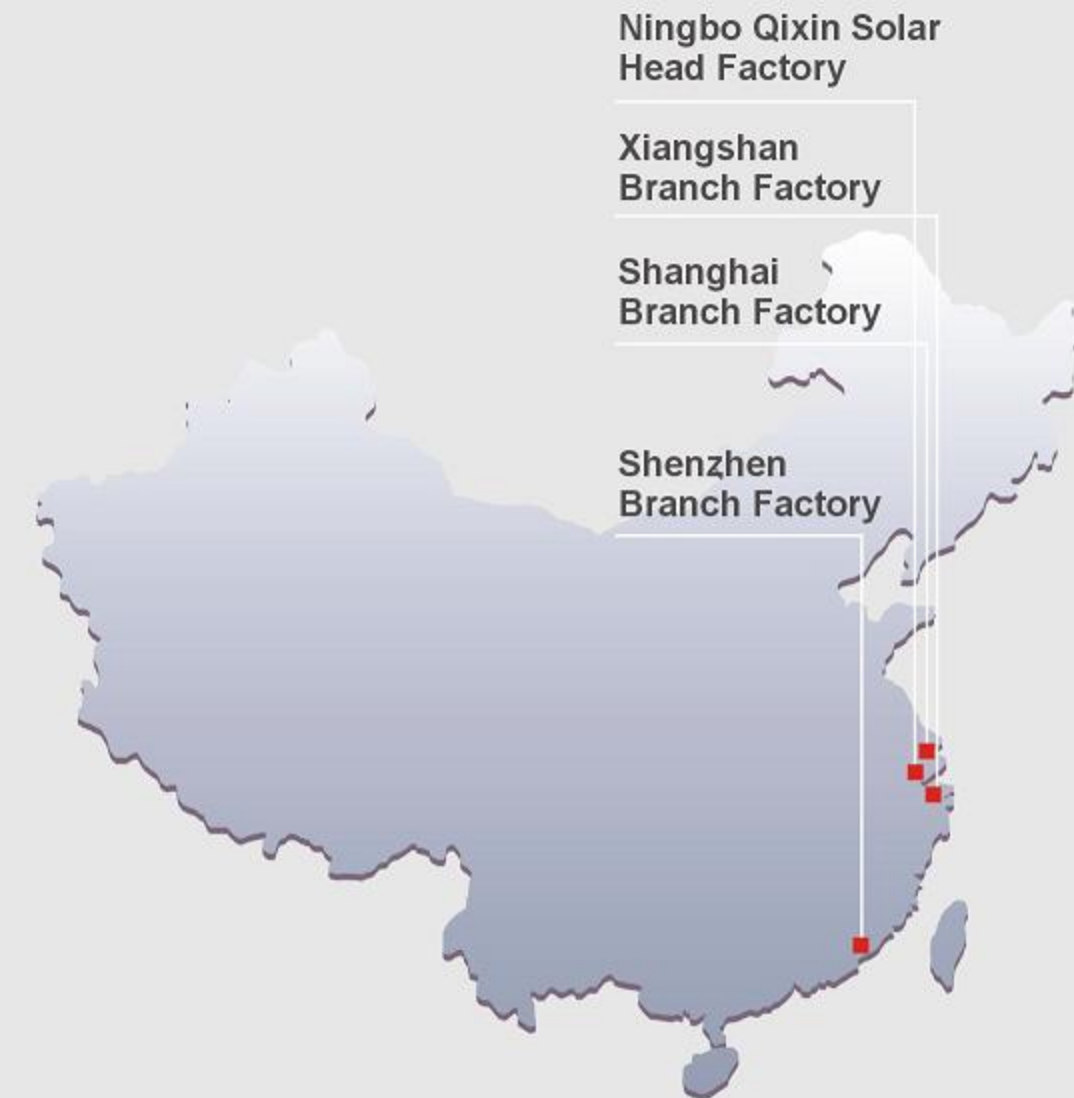
1 hour to Ningbo ocean port

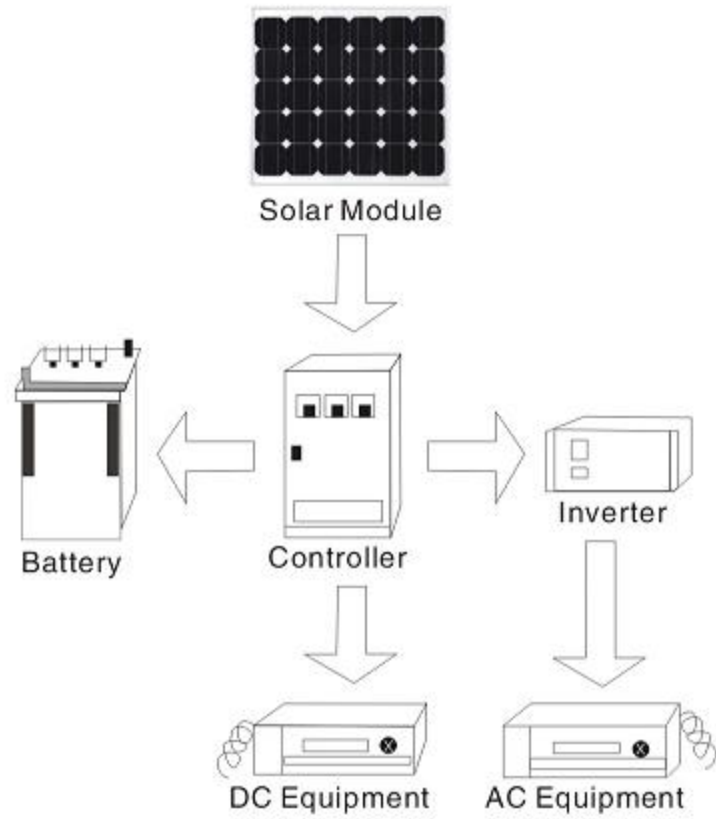
20 minutes to Ningbo airport

2 hours to Shanghai ocean port

Company certificates

ISO 9001, TÜV, CE, IEC 61215, IEC 61730, CQC, SGS







RESOURCE FOR PRODUCTION

The top product is made by the top rank equipment and technology. Qixin introduces into the advanced equipment and highly skilled people. We manage each production process strictly and make concerted efforts to complete the order for providing high quality product to customer as fast as we can.



Solar Cell Test Equipment

Can test whole piece solar cell
The largest current can test: 10A
Test figure curve 1-V: Isc
Voc Im Vm Pm Rs Rsh FF



Automatic Solar Module Test Equipment

<semi-manufactured goods>
The largest test voltage: 100V
The largest test current: 10A
The light source: 1000W/M²



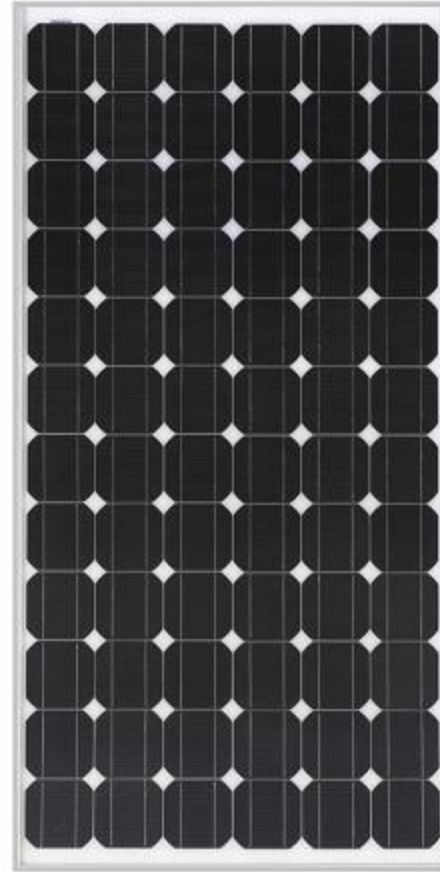
Automatic Solar Module Test Equipment

<finished product>
The largest test voltage: 100V
The largest test current: 10A
The light source: 1000W/M²



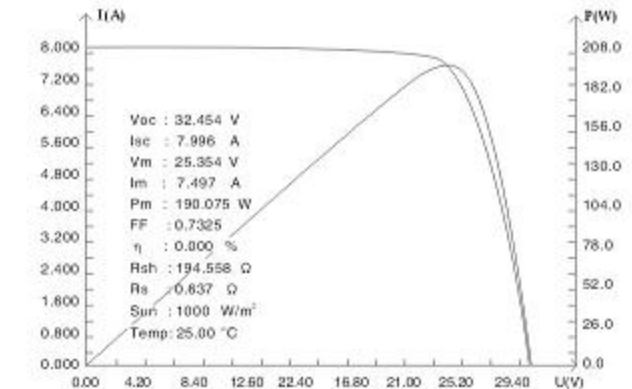
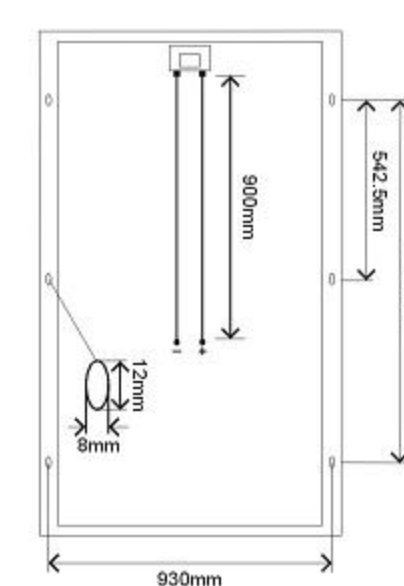
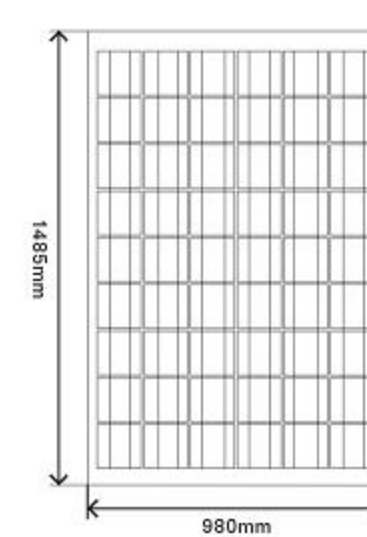
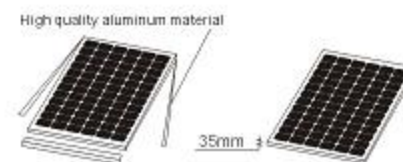
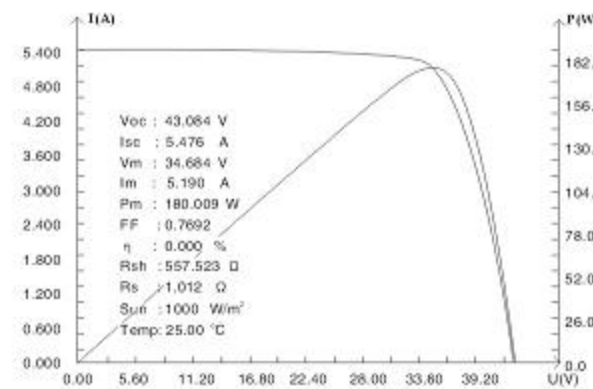
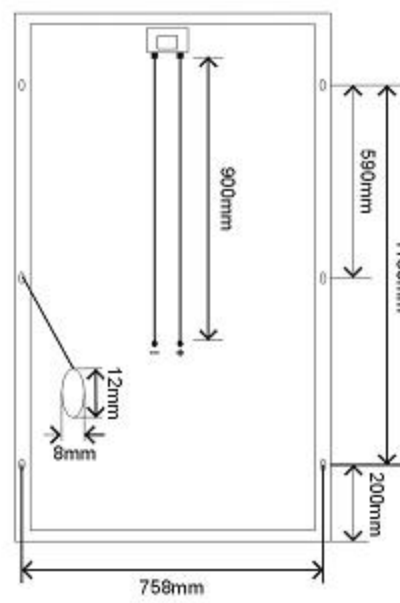
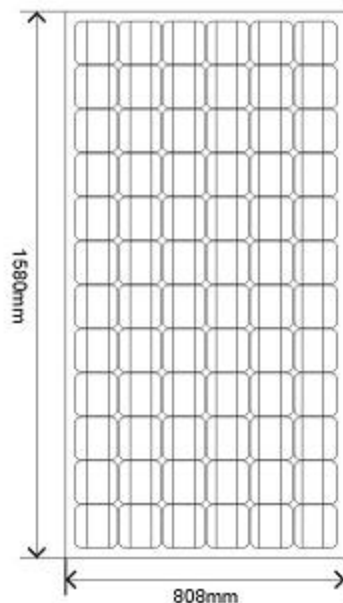
Model (SL180CE-36M) Specifications

ITEM NO.:	SL180CE-36M
Maximum Power(W)	180 175 170
Optimum Power Voltage(Vmp)	37.72 37.29 36.57
Optimum Operating Current(Imp)	4.77 4.69 4.64
Open Circuit Voltage(Voc)	44.71 44.28 44.13
Short Circuit Voltage(Isc)	5.10 5.02 4.97
Solar Cell:	125 x 125 Mono
Number of Cell(pcs)	6 x 12
Size of Module(mm)	1580 x 808 x 35
Cable & Connector Type	Pass the TUV Certificate
Frame (Material Corners, etc.)	Aluminium-alloy
Backing (Brand Type)	TPT
Cell Efficiency for 180W(%)	17.0
Weight Per Piece(KG)	15.0
FF(%)	70-76%
Junction Box Type	Pass the TUV Certificate
Tolerance Wattage(e.g.±5%)	± 5%
Front Glass Thickness(mm)	3.20
Temperature Coefficients of Isc(%)°C	+0.04
Temperature Coefficients of Voc(%)°C	-0.38
Temperature Coefficients of Pm(%)°C	-0.47
Temperature Coefficients of Im(%)°C	+0.04
Temperature Coefficients of Vm(%)°C	-0.38
Temperature Range	-40°C to +85°C
Surface Maximum Load Capacity	2400Pa
Allowable Hail Load	23m/s, 7.53g
Bypass Diode Rating(A)	12
Warranty	90% of 10 years, 80% of 25 years.
Standard Test Conditions	AM1.5 1000W/m ² 25±2°C
Packing	Wooden box
1'20'	14Pallets/370pcs
1'40'STD	28Pallets/756pcs



Model (SL190CE-27P) Specifications

ITEM NO.:	SL190CE-27P
Maximum Power(W)	190 185 180
Optimum Power Voltage(Vmp)	26.56 26.56 26.24
Optimum Operating Current(Imp)	7.15 6.96 6.85
Open Circuit Voltage(Voc)	32.56 32.56 32.5
Short Circuit Voltage(Isc)	7.65 7.45 7.33
Solar Cell:	156 x 156 Poly
Number of Cell(pcs)	6 x 9
Size of Module(mm)	1485 x 980 x 40
Cable & Connector Type	Pass the TUV Certificate
Frame (Material Corners, etc.)	Aluminium-alloy
Backing (Brand Type)	TPT
Cell Efficiency for 190W(%)	14.50
Weight Per Piece(KG)	17.0
FF(%)	70-76%
Junction Box Type	Pass the TUV Certificate
Tolerance Wattage(e.g.±5%)	± 5%
Front Glass Thickness(mm)	3.20
Temperature Coefficients of Isc(%)°C	+0.04
Temperature Coefficients of Voc(%)°C	-0.38
Temperature Coefficients of Pm(%)°C	-0.47
Temperature Coefficients of Im(%)°C	+0.04
Temperature Coefficients of Vm(%)°C	-0.38
Temperature Range	-40°C to +85°C
Surface Maximum Load Capacity	2400Pa
Allowable Hail Load	23m/s, 7.53g
Bypass Diode Rating(A)	12
Warranty	90% of 10 years, 80% of 25 years.
Standard Test Conditions	AM1.5 1000W/m ² 25±2°C
Packing	Wooden box
1'20'	14Pallets/364pcs
1'40'HQ	30Pallets/810pcs



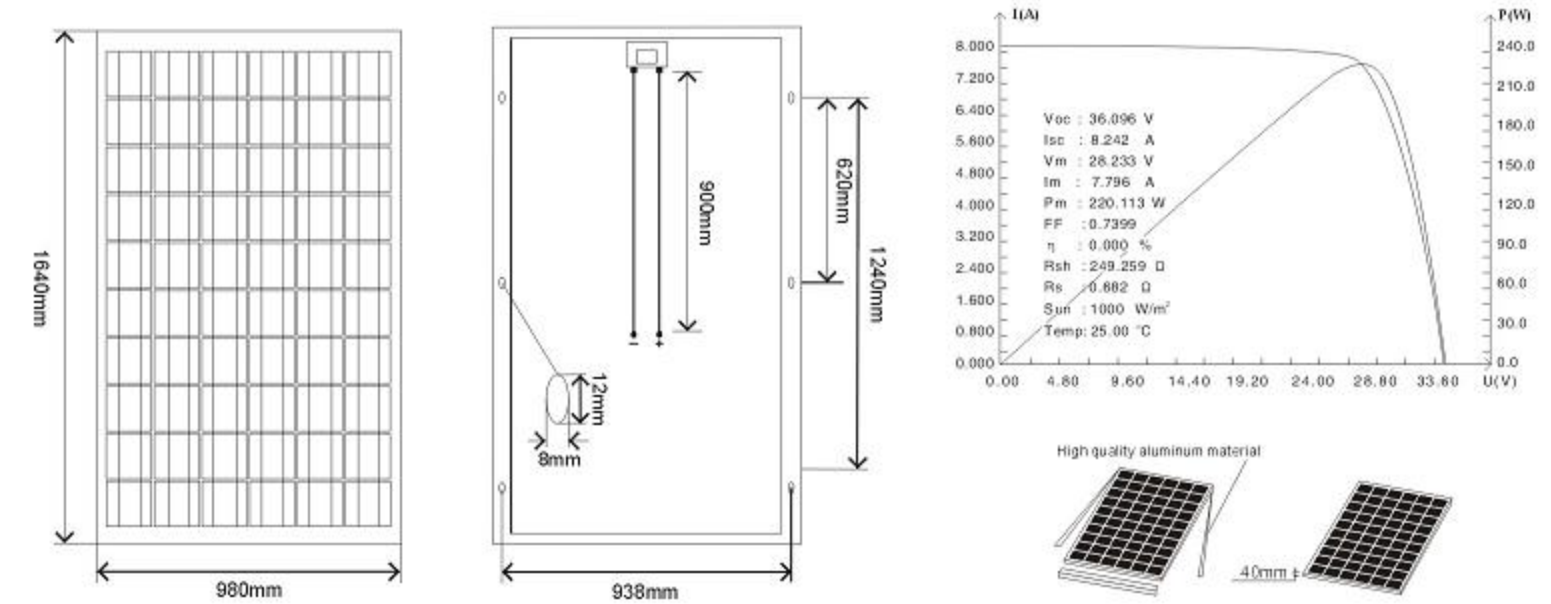
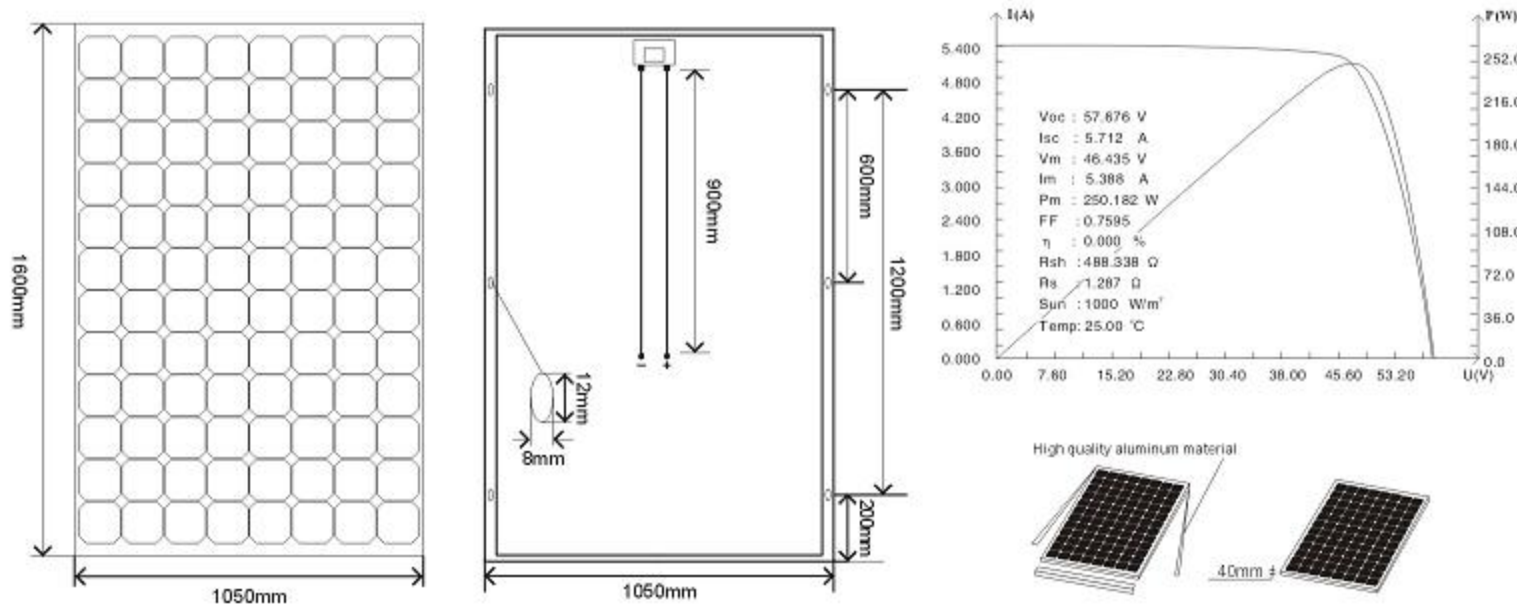
Model (SL250CE-48M) Specifications

ITEM NO.:	SL250CE-48M
Maximum Power(W)	250 235 220
Optimum Power Voltage(Vmp)	50.78 49.72 47.80
Optimum Operating Current(Imp)	4.92 4.72 4.60
Open Circuit Voltage(Voc)	59.90 59.04 58.65
Short Circuit Voltage(Isc)	5.26 5.05 4.92
Solar Cell:	125 x 125 Mono
Number of Cell(pcs)	8 x 12
Size of Module(mm)	1600 x 1050 x 40
Cable & Connector Type	Pass the TUV Certificate
Frame (Material Corners, etc.)	Aluminium-alloy
Backing (Brand Type)	TPT
Cell Efficiency for 250W(%)	17.75
Weight Per Piece(KG)	19.5
FF(%)	70-76%
Junction Box Type	Pass the TUV Certificate
Tolerance Wattage(e.g. +/-5%)	± 5%
Front Glass Thickness(mm)	3.20
Temperature Coefficients of Isc(%)°C	+0.04
Temperature Coefficients of Voc(%)°C	-0.38
Temperature Coefficients of Pm(%)°C	-0.47
Temperature Coefficients of Im(%)°C	+0.04
Temperature Coefficients of Vm(%)°C	-0.38
Temperature Range	-40°C to +85°C
Surface Maximum Load Capacity	2400Pa
Allowable Hail Load	23m/s, 7.53g
Bypass Diode Rating(A)	12
Warranty	90% of 10 years, 80% of 25 years.
Standard Test Conditions	AM1.5 1000W/m ² 25±2°C
Packing	Wooden box
1'20'	14Pallets/316pcs
1'40'HQ	28Pallets/756pcs



Model (SL220CE-30P) Specifications

ITEM NO.:	SL220CE-30P
Maximum Power(W)	220 210 200
Optimum Power Voltage(Vmp)	30.12 29.52 29.16
Optimum Operating Current(Imp)	7.30 7.11 6.85
Open Circuit Voltage(Voc)	36.30 36.18 36.12
Short Circuit Voltage(Isc)	7.81 7.61 7.33
Solar Cell:	156 x 156 Poly
Number of Cell(pcs)	6 x 10
Size of Module(mm)	1640 x 980 x 40
Cable & Connector Type	Pass the TUV Certificate
Frame (Material Corners, etc.)	Aluminium-alloy
Backing (Brand Type)	TPT
Cell Efficiency for 220W(%)	15.0
Weight Per Piece(KG)	18.6
FF(%)	70-76%
Junction Box Type	Pass the TUV Certificate
Tolerance Wattage(e.g. +/-5%)	± 5%
Front Glass Thickness(mm)	3.20
Temperature Coefficients of Isc(%)°C	+0.04
Temperature Coefficients of Voc(%)°C	-0.38
Temperature Coefficients of Pm(%)°C	-0.47
Temperature Coefficients of Im(%)°C	+0.04
Temperature Coefficients of Vm(%)°C	-0.38
Temperature Range	-40°C to +85°C
Surface Maximum Load Capacity	2400Pa
Allowable Hail Load	23m/s, 7.53g
Bypass Diode Rating(A)	12
Warranty	90% of 10 years, 80% of 25 years.
Standard Test Conditions	AM1.5 1000W/m ² 25±2°C
Packing	Wooden box
1'20'	14Pallets/316pcs
1'40'HQ	28Pallets/756pcs



MONO SOLAR PANEL SPECS

Parameter Type	Maxpower (W)	Dimension (mm)	Cell Type	Cell Efficiency	Weight (kg)	Imp(A)	Vmp(V)	Isc(A)	Voc(V)
SL250CE-48M	250W	1600x1050x40	125x125/8x12	17.65%	19.5	4.92	50.78	5.26	59.90
SL245CE-48M	245W	1600x1050x40	125x125/8x12	17.31%	19.5	4.84	50.54	5.18	59.76
SL240CE-48M	240W	1600x1050x40	125x125/8x12	16.96%	19.5	4.77	50.30	5.10	59.61
SL235CE-48M	235W	1600x1050x40	125x125/8x12	16.60%	19.5	4.72	49.72	5.05	59.04
SL230CE-48M	230W	1600x1050x40	125x125/8x12	16.25%	19.5	4.67	49.15	5.00	58.94
SL225CE-48M	225W	1600x1050x40	125x125/8x12	15.90%	19.5	4.61	48.76	4.93	58.84
SL220CE-48M	220W	1600x1050x40	125x125/8x12	15.54%	19.5	4.60	47.80	4.92	58.65
SL215CE-48M	215W	1600x1050x40	125x125/8x12	15.19%	19.5	4.55	47.23	4.87	58.51
SL210CE-48M	210W	1600x1050x40	125x125/8x12	14.84%	19.5	4.50	46.65	4.81	58.41
SL205CE-48M	205W	1600x1050x40	125x125/8x12	14.48%	19.5	4.49	46.27	4.74	58.36
SL200CE-48M	200W	1600x1050x40	125x125/8x12	14.13%	19.5	4.43	45.63	4.68	57.60
SL195CE-40M	195W	1340x1050x40	125x125/8x10	16.53%	16.3	4.70	41.44	5.03	49.20
SL190CE-40M	190W	1340x1050x40	125x125/8x10	16.11%	16.3	4.67	40.64	5.00	49.04
SL185CE-40M	185W	1340x1050x40	125x125/8x10	15.68%	16.3	4.64	39.84	4.96	48.90
SL180CE-36M	180W	1580x808x35	125x125/6x12	16.96%	15.0	4.77	37.72	5.10	44.71
SL175CE-36M	175W	1580x808x35	125x125/6x12	16.48%	15.0	4.69	37.29	5.02	44.28
SL170CE-36M	170W	1580x808x35	125x125/6x12	16.01%	15.0	4.64	36.57	4.97	44.13
SL165CE-36M	165W	1580x808x35	125x125/6x12	15.54%	15.0	4.60	35.85	4.92	43.99
SL160CE-36M	160W	1580x808x35	125x125/6x12	15.07%	15.0	4.53	35.28	4.85	43.84
SL120CE-36M	120W	1100x808x35	125x82/6x12	16.92%	10.4	3.18	37.72	3.40	44.71
SL115CE-36M	115W	1100x808x35	125x82/6x12	16.21%	10.4	3.11	36.86	3.33	44.20
SL110CE-36M	110W	1100x808x35	125x82/6x12	15.51%	10.4	3.06	35.85	3.28	43.99
SL105CE-36M	105W	1100x808x35	125x82/6x12	14.80%	10.4	2.92	35.85	3.13	43.99
SL100CE-36M	100W	1100x808x35	125x82/6x12	14.10%	10.4	2.93	34.05	3.14	43.70
SL90CE-36M	90W	966x808x35	125x75/6x12	13.33%	10.4	2.70	33.33	2.88	43.63
SL85CE-36M	85W	1224x546x35	125x62.5/4x18	16.01%	7.8	2.32	36.57	2.48	44.13
SL80CE-36M	80W	1224x546x35	125x62.5/4x18	15.07%	7.8	2.26	35.28	2.42	43.84
SL75CE-36M	75W	1224x546x35	125x62.5/4x18	14.13%	7.8	2.16	34.70	2.31	43.77
SL70CE-36M	70W	1224x546x35	125x62.5/4x18	13.19%	7.8	2.09	33.33	2.24	43.63
SL65CE-36M	65W	1080x546x35	125x55/4x18	13.13%	7.8	1.95	33.33	2.08	43.63
SL60CE-18M	60W	800x546x35	125x82/4x9	16.92%	5.2	3.18	18.86	3.40	22.35
SL55CE-18M	55W	800x546x35	125x82/4x9	15.51%	5.2	3.11	17.64	3.33	21.92
SL50CE-18M	50W	800x546x35	125x82/4x9	14.10%	5.2	2.88	17.35	3.08	21.88
SL45CE-18M	45W	800x546x35	125x82/4x9	13.00%	5.2	2.70	16.66	2.89	21.81
SL40CE-18M	40W	668x546x35	125x62.5/4x9	15.00%	4.3	2.30	17.35	2.46	21.88
SL35CE-18M	35W	600x546x35	125x59/4x9	13.18%	4.3	2.10	16.66	2.24	21.81
SL30CE-18M	30W	580x420x28	125x41/3x12	16.96%	3.4	1.59	18.86	1.70	22.35
SL25CE-18M	25W	580x420x28	125x41/3x12	14.13%	3.4	1.44	17.35	1.54	21.88
SL20CE-18M	20W	640x300x28	62.5x62.5/4x9	15.07%	2.6	1.13	17.64	1.21	21.92
SL10CE-18M	10W	360x300x28	125x15.6/2x18	14.25%	1.5	0.53	18.86	0.56	22.35
SL5CE-18M	5W	400x175x18	62.5x17.8/2x18	13.56%	0.8	0.29	17.02	0.31	21.85

POLY SOLAR PANEL SPECS

Parameter Type	Maxpower (W)	Dimension (mm)	Cell Type	Cell Efficiency	Weight (kg)	Imp(A)	Vmp(V)	Isc(A)	Voc(V)
SL280CE-36P	280W	1960x990x46	156x156/6x12	15.97%	22.5	7.65	36.57	8.19	43.77
SL275CE-36P	275W	1960x990x46	156x156/6x12	15.69%	22.5	7.54	36.43	8.07	43.70
SL270CE-36P	270W	1960x990x46	156x156/6x12	15.40%	22.5	7.44	36.28	7.96	43.63
SL265CE-36P	265W	1960x990x46	156x156/6x12	15.12%	22.5	8.53	36.14	9.13	43.56
SL260CE-36P	260W	1960x990x46	156x156/6x12	14.83%	22.5	7.22	36.00	7.72	43.48
SL255CE-36P	255W	1960x990x46	156x156/6x12	14.55%	22.5	7.08	36.00	7.57	43.48
SL250CE-36P	250W	1960x990x46	156x156/6x12	14.26%	22.5	7.05	35.42	7.55	43.41
SL245CE-33P	245W	1800x990x46	156x156/6x11	15.25%	20.6	7.39	33.13	7.91	39.93
SL240CE-33P	240W	1800x990x46	156x156/6x11	14.94%	20.6	7.27	33.00	7.78	39.86
SL235CE-33P	235W	1800x990x46	156x156/6x11	14.63%	20.6	7.12	33.00	7.69	39.86
SL230CE-33P	230W	1800x990x46	156x156/6x11	14.31%	20.6	7.08	32.47	7.57	39.79
SL225CE-30P	225W	1640x980x40	156x156/6x10	15.40%	18.6	7.62	29.52	8.15	36.18
SL220CE-30P	220W	1640x980x40	156x156/6x10	15.06%	18.6	7.30	30.12	7.81	36.30
SL215CE-30P	215W	1640x980x40	156x156/6x10	14.72%	18.6	7.16	30.00	7.66	36.24
SL210CE-30P	210W	1640x980x40	156x156/6x10	14.38%	18.6	7.11	29.52	7.61	36.18
SL205CE-30P	205W	1640x980x40	156x156/6x10	14.03%	18.6	6.94	29.52	7.43	36.18
SL200CE-30P	200W	1640x980x40	156x156/6x10	13.69%	18.6	6.85	29.16	7.33	36.12
SL195CE-30P	195W	1640x980x40	156x156/6x10	13.35%	18.6	6.68	29.16	7.15	36.12
SL190CE-27P	190W	1485x980x40	156x156/6x9	14.45%	17.0	7.15	26.56	7.65	32.56
SL185CE-27P	185W	1485x980x40	156x156/6x9	14.07%	17.0	6.96	26.56	7.45	32.56
SL180CE-27P	180W	1485x980x40	156x156/6x9	13.69%	17.0	6.85	26.24	7.33	32.50
SL175CE-24P	175W	1330x980x40	156x156/6x8	14.98%	16.4	7.29	24.00	7.80	28.99
SL170CE-24P	170W	1330x980x40	156x156/6x8	14.55%	16.4	7.08	24.00	7.57	28.99
SL165CE-24P	165W	1330x980x40	156x156/6x8	14.12%	16.4	6.98	23.61	7.47	28.94
SL160CE-24P	160W	1330x980x40	156x156/6x8	13.69%	16.4	6.86	23.32	7.34	28.89
SL130CE-18P	130W	1485x668x35	156x156/4x9	14.83%	11.6	7.20	18.00	7.72	21.74
SL120CE-18P	120W	1485x668x35	156x156/4x9	13.69%	11.6	6.86	17.49	7.34	21.67
SL100CE-18P	100W	1245x668x35	156x130/4x9	13.69%	11.6	5.71	17.49	6.11	21.67
SL90CE-18P	90W	995x668x35	156x104/4x9	15.40%	9.0	4.96	18.14	5.30	21.81
SL85CE-18P	85W	995x668x35	156x104/4x9	14.55%	9.0	4.79	17.71	5.13	21.70
SL80CE-18P	80W	995x668x35	156x104/4x9	13.69%	9.0	4.57	17.49	4.89	21.67
SL75CE-18P	75W	930x668x35	156x95/4x9	14.05%	8.2	4.28	17.49	4.58	21.67
SL70CE-18P	70W	760x668x35	156x78/4x9	15.97%	6.8	3.88	18.00	4.16	21.74
SL65CE-18P	65W	760x668x35	156x78/4x9	14.83%	6.8	3.61	18.00	3.86	21.74
SL60CE-18P	60W	760x668x35	156x78/4x9	13.69%	6.8	3.43	17.49	3.67	21.67
SL55CE-18P	55W	710x668x35	156x70/4x9	13.99%	6.3	3.14	17.49	3.36	21.67
SL50CE-18P	50W	710x668x35	156x68/4x9	13.09%	6.3	2.91	17.13	3.12	21.63
SL45CE-18P	45W	668x546x35	156x52/4x9	15.40%	4.3	2.48	18.14	2.65	21.81
SL40CE-18P	40W	668x546x35	156x52/4x9	13.69%	4.3	2.28	17.49	2.44	21.67
SL35CE-18P	35W	668x500x35	156x45/4x9	13.84%	4.3	2.00	17.49	2.14	21.67
SL30CE-18P	30W	545x515x28	156x39/3x12	13.69%	3.9	1.71	17.49	1.83	21.67
SL25CE-18P	25W	515x470x28	156x32/3x12	13.91%	3.9	1.42	17.49	1.52	21.67
SL20CE-18P	20W	550x350x28	78x52/4x9	13.69%	2.6	1.14	17.49	1.22	21.67
SL10CE-18P	10W	350x310x28	78x26/4x9	13.69%	1.5	0.57	17.49	0.61	21.67
SL5CE-18P	5W	320x200x18	78x13/2x18	13.69%	0.8	0.28	17.49	0.30	21.67

Structure of product (5 layers)



Multicrystalline Silicon Solar Cell



Monocrystalline Silicon Solar Cell

