



**Crest Solar Co., LTD.**

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**Specification of Monocrystalline Solar Panel**

OUTPUT (Peak.w)	DIMENSIO N (mm)	WEIGHT (kgs/pc)	WORKING Vol Vop(v)	WORKING Cur. Iop(A)	OPEN Vol. Voc(v)	SHORT Cur Isc(A)	SLA Battery (V)	LOADING	
								20GP (pcs)	40GP (pcs)
2	155*149	0.4	16.4	0.12	20.2	0.14	12		
3	255*162*17	0.5	8.5	0.36	10.5	0.4	6		
5	254*294*23	0.8	16.8	0.3	21	0.38	12		
6			16.8	0.36	21.4	0.4	12		
8	397*290*23	1.4	16.8	0.48	21.4	0.54	12		
10	396*289*23	1.4	17	0.59	21.5	0.66	12	2888	6222
12			17.2	0.7	21.6	0.8	12		
15	465*295*23	2.2	17.2	0.88	21.6	1.06	12	2166	4666
18	645*295*23	2.4	17.2	1.05	21.6	1.17	12	1792	3862
20			17.2	1.17	21.6	1.3	12		
24	570*414*23	2.5	17.4	1.38	21.8	1.59	12	1528	3862
30	540*510*25	5.2	17.2	1.75	21.6	1.96	12	1238	2666
35	565*545*23		17.2	2.1	21.6	2.34	12		
40	597*540*23		17.6	2.28	21.8	2.67	12		
50	835*540*28	5.5	17.6	2.85	21.6	2.98	12	720	1560
60	890*540*30	6	17.2	3.49	21.6	3.9	12	640	1440
65	1210*540*30	8.2	17.2	3.78	21.6	4.35	12	484	1104
70			17.2	4.16	21.6	4.7	12		
75			17.2	4.36	21.6	4.87	12		
80			17.6	4.55	21.8	5.23	12		
85			17.6	4.83	21.8	5.18	12		
100	963*805*35	10	33.5	2.99	41.5	3.75	24	384	768
110	1250*808*35	11.8	33.5	3.29	41.5	3.78	24		
120			33.5	3.35	41.5	4.26	24		
130			33.8	3.85	41.5	4.43	24		
150	1580*808*35	14.5	34.4	4.37	43	4.86	24	288	672
160			34.4	4.66	43	5	24		
165			35.87	4.6	43	5.9	24		
170			36.1	4.71	43.3	5	24		
175			36.45	4.81	43.7	5.1	24		
180			36.73	4.91	44.3	5.2	24		
200	1702*945*45	19	44.8	4.47	50.3	5.2	24	226	488
220			45	4.88	52	5.52	24		

Remark:125\*125mm cell

STC:AM1.5,Irradiance 1000w/m<sup>2</sup>,Module temperature 25<sup>0</sup>C



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### Specification of Polycrystalline Solar Panel

Output	Dimension	Weight	Working Vol.	Working Cur.	Open Vol.	Short Cur.	Loading	
W <sub>p</sub> (W)	(mm)	(kgs)	V <sub>mp</sub> (V)	I <sub>mp</sub> (A)	V <sub>oc</sub> (v)	I <sub>sc</sub> (A)	20GP (PCS)	40GP (PCS)
10	310*368*23	1.5	17.2	0.58	21.156	0.62	2888	6222
20	350*552*23	2.5	17.2	1.16	21.156	1.24	1792	3862
30	510*540*23	3.5	17.2	1.74	21.156	1.87	1238	2666
40	507*697*23	4.5	17.2	2.33	21.156	2.49	1220	2600
50	665*790*28	5.5	17.2	2.91	21.156	3.11	700	1500
60	665*790*28	6.5	17.2	3.49	21.156	3.73		
70	665*1020*28	7.5	17.2	4.07	21.156	4.35	480	968
80	665*1020*28	7.5	17.2	4.65	21.156	4.98		
90	665*1020*28	7.5	17.2	5.23	21.156	5.60	400	880
100	990*1010*35	12.5	17.2	5.81	21.156	6.22		
120	990*1010*35	12.5	17.2	6.98	21.156	7.47		
130	990*1010*35	12.5	17.2	7.56	21.156	8.09		
140	990*1010*35	12.5	17.2	8.14	21.156	8.71	320	680
150	990*1320*35	14.5	23	6.52	28.29	6.98		
160	990*1320*35	14.5	23	6.96	28.29	7.44		
165	990*1320*35	14.5	23	7.17	28.29	7.68	280	600
170	990*1480*35	16	26	6.54	31.98	7.00		
180	990*1480*35	16	26	6.92	31.98	7.41		
190	990*1480*35	16	26	7.31	31.98	7.82		
200	990*1634*35	17	30	6.67	36.9	7.13	240	560
210	990*1634*35	17	30	7.00	36.9	7.49		
220	990*1634*35	17	30	7.33	36.9	7.85		
230	990*1634*35	17	30	7.67	36.9	8.20		
240	990*1955*45	19	35	6.86	43.05	7.34	192	384
250	990*1955*45	19	35	7.14	43.05	7.64		
260	990*1955*45	19	35	7.43	43.05	7.95		
270	990*1955*45	19	35	7.71	43.05	8.25		

STC: Standard test condition: AM1.5, Irradiance 1000w/m<sup>2</sup>, Module temperature 25 °C



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**SPECIFICATION OF  
75W.80W.85W MONO SOLAR MODULE**

**Mono-Crystalline**

Module type	Pm(W)	Number of cell	Cell Dimension (mm)	Max System Voltage(V)	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYSM75	75W	36	125	1000	17.2	4.36	21.6	4.87
SYSM80	80W	36	125	1000	17.6	4.55	21.8	5.23
SYSM85	85W	36	125	1000	17.6	4.83	21.8	5.18

**Parameter**

Maximum system voltage (V)	1000
Temperature coefficients of Isc (%)	+0.1%/°C
Temperature coefficients of Voc (%)	-0.38%/°C
Temperature coefficients of Pm (%)	-0.47%/°C
Temperature coefficients of Im (%)	+0.1%/°C
Temperature coefficients of Vm (%)	-0.38%/°C
Temperature Range	-40°C ---85°C
Tolerance Wattage (e.g. +/-5%)	± 5%
Surface Maximum Load Capacity	60m/s (200kg/sq.m)
Junction Box Type	PPO, black
Connectors and Cables Type	4mm <sup>2</sup>
Length of Cables (mm)	900
Cell Efficiency (%)	14%
Output tolerance (%)	± 5%
Frame (Material, Corners, etc.)	Anodized Aluminum Alloy
Standard Test Conditions	AM1.5 1000W/cm <sup>2</sup> 25°C
Warranty	2 years for the whole product,90% power for 10years,80% power for 25 years.
FF (%)	≥73.3%



**Physical Characters**

Output	Module Net Weight	Module Size (MM)	Packing	20' Container	40' Container
75W	8.2(kg)	1210*540*30	2pcs/carton	484 pcs	1104 pcs
80W	8.2(kg)	1210*540*30	2pcs/carton	484 pcs	1104 pcs
85W	8.2(kg)	1210*540*30	2pcs/carton	484 pcs	1104 pcs



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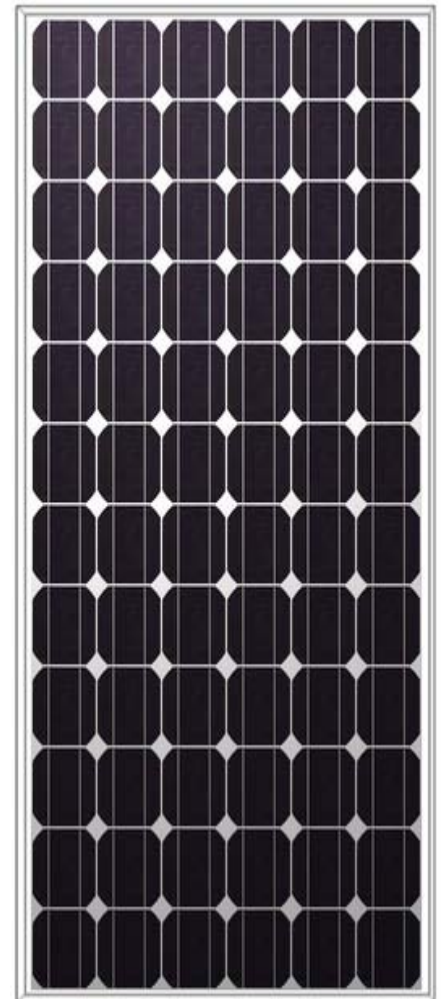
**SPECIFICATION OF  
160W.165W.180W MONO SOLAR MODULE**

**Mono-Crystalline**

Module type	Pm(W)	Number of cell	Cell Dimension (mm)	Max System Voltage(V)	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYSM160	160W	72	125	1000	34.4	4.66	43.2	4.9
SYSM165	165W	72	125	1000	35.87	4.6	43.2	5.03
SYSM180	180W	72	125	1000	36.73	4.91	44.3	5.2

**Parameter**

Maximum system voltage (V)	1000
Temperature coefficients of Isc (%)	+0.1%/°C
Temperature coefficients of Voc (%)	-0.38%/°C
Temperature coefficients of Pm (%)	-0.47%/°C
Temperature coefficients of Im (%)	+0.1%/°C
Temperature coefficients of Vm (%)	-0.38%/°C
Temperature Range	-40°C ---85°C
Tolerance Wattage (e.g. +/-5%)	± 5%
Surface Maximum Load Capacity	60m/s (200kg/sq.m)
Junction Box Type	PPO, black
Connectors and Cables Type	4mm <sup>2</sup>
Length of Cables (mm)	900
Cell Efficiency (%)	>16%
Output tolerance (%)	± 5%
Frame (Material, Corners, etc.)	Anodized Aluminum Alloy
Standard Test Conditions	AM1.5 100MW/cm <sup>2</sup> 25°C
Guarantee of power	5 years for whole products,90% power for 10years, 80% power for 25years.
FF (%)	≥73.3%



**Physical Characters**

Output	Module Net Weight	Module Size	Packing	20' Container	40' Container
160W	14.5(kg)	1580*808*35	2pcs/carton	288 pcs	672 pcs
165W	14.5(kg)	1580*808*35	2pcs/carton	288 pcs	672 pcs
180W	14.5(kg)	1580*808*35	2pcs/carton	288 pcs	672 pcs



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**SPECIFICATION OF  
200W.220W MONO SOLAR MODULE**

**Mono-Crystalline**

Module type	Pm(W)	Number of cell	Cell Dimension (mm)	Max System Voltage(V)	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYSM200	200W	91	125	1000	44.8	4.47	50.3	5.2
SYSM220	220W	91	125	1000	47.5	4.63	53.7	5.37

**Parameter**

Maximum system voltage (V)	1000
Temperature coefficients of Isc (%)	+0.1%/°C
Temperature coefficients of Voc (%)	-0.38%/°C
Temperature coefficients of Pm (%)	-0.47%/°C
Temperature coefficients of Im (%)	+0.1%/°C
Temperature coefficients of Vm (%)	-0.38%/°C
Temperature Range	-40°C ---85°C
Tolerance Wattage (e.g. +/-5%)	± 5%
Surface Maximum Load Capacity	60m/s (200kg/sq.m)
Junction Box Type	PPO, black
Connectors and Cables Type	4mm <sup>2</sup>
Length of Cables (mm)	900
Cell Efficiency (%)	>16.8%
Output tolerance (%)	± 5%
Frame (Material, Corners, etc.)	Anodized Aluminum Alloy
Standard Test Conditions	AM1.5 100MW/cm <sup>2</sup> 25°C
Guarantee of power	2 years for whole products,90% power for 10years, 80% power for 25years.
FF (%)	≥73.3%



**Physical Characters**

Output	Module Net Weight	Module Size (MM)	Packing	20' Container	40' Container
200W	19.0(kg)	1702*945*45	2pcs/carton	226 pcs	488 pcs
220W	19.0(kg)	1702*945*45	2pcs/carton	226 pcs	488 pcs



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**SPECIFICATION OF  
230W.240W MONO SOLAR MODULE**

**Mono-Crystalline**

Module type	Pm(W)	Number of cell	Cell Dimension (mm)	Max System Voltage(V)	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYSM230	230W	96	125	1000	46.85	4.91	57.62	5.25
SYSM240	240W	96	125	1000	46.85	5.13	57.62	5.48

**Parameter**

Maximum system voltage (V)	1000
Temperature coefficients of Isc (%)	+0.1%/°C
Temperature coefficients of Voc (%)	-0.38%/°C
Temperature coefficients of Pm (%)	-0.47%/°C
Temperature coefficients of Im (%)	+0.1%/°C
Temperature coefficients of Vm (%)	-0.38%/°C
Temperature Range	-40°C ---85°C
Tolerance Wattage (e.g. +/-5%)	± 5%
Surface Maximum Load Capacity	60m/s (200kg/sq.m)
Junction Box Type	PPO, black
Connectors and Cables Type	4mm <sup>2</sup>
Length of Cables (mm)	900
Cell Efficiency (%)	>16.8%
Output tolerance (%)	± 5%
Frame (Material, Corners, etc.)	Anodized Aluminum Alloy
Standard Test Conditions	AM1.5 100MW/cm <sup>2</sup> 25°C
Guarantee of power	2 years for whole products,90% power for 10years, 80% power for 25years.
FF (%)	≥73.3%



**Physical Characters**

Output	Module Net Weight	Module Size (MM)	Packing	20' Container	40' Container
230W	22.0(kg)	1580*1080*45	2pcs/carton	228 pcs	476 pcs
240W	22.0(kg)	1580*1080*45	2pcs/carton	228 pcs	476 pcs



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**SPECIFICATION OF  
70W,80W,90W POLY SOLAR MODULE**

**Poly-Crystalline**

Module type	Pm(W)	Number of cell	Cell Dimension (mm)	Max System Voltage(V)	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYSM70	70W	36	156	1000	17.2	4.09	21.156	4.35
SYSM80	80W	36	156	1000	17.2	4.65	21.156	4.98
SYSM90	90W	36	156	1000	17.2	5.23	21.156	5.60

**Parameter**

Maximum system voltage (V)	1000
Temperature coefficients of Isc (%)	+0.1%/°C
Temperature coefficients of Voc (%)	-0.38%/°C
Temperature coefficients of Pm (%)	-0.47%/°C
Temperature coefficients of Im (%)	+0.1%/°C
Temperature coefficients of Vm (%)	-0.38%/°C
Temperature Range	-40°C ---85°C
Tolerance Wattage (e.g. +/-5%)	± 5%
Surface Maximum Load Capacity	60m/s (200kg/sq.m)
Junction Box Type	PPO, black
Connectors and Cables Type	4mm2
Length of Cables (mm)	900
Cell Efficiency (%)	>15.0%
Output tolerance (%)	± 5%
Frame (Material, Corners, etc.)	Anodized Aluminum Alloy
Standard Test Conditions	AM1.5 100MW/cm² 25°C
Guarantee of power	2 years for whole products,90% power for 10years, 80% power for 25years.
FF (%)	≥73.3%



**Physical Characters**

Output	Module Net Weight	Module Size (MM)	Packing	20' Container	40' Container
70W	7.5(kg)	665*1020*28	2pcs/carton	480 pcs	968 pcs
80W	7.5(kg)	665*1020*28	2pcs/carton	480 pcs	968 pcs
90W	7.5(kg)	665*1020*28	2pcs/carton	480 pcs	968 pcs