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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Qingdao Power World Co., Ltd.**

**PW5-150Wp-156-36M**

**PW10Wp-156-36M**

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## MONO SOLAR PANEL SPECS

Model	Power (Wp)	Solar Cell Array	Size: MM (L x W x H)	Vmp (V)	Imp (A)	Voc (V)	Isc (A)
PW5Wp-125-36M	5 W	36PCS(2x18)	210x300x17mm	17.60	0.28	22.00	0.31
PW10Wp-125-36M	10 W	36PCS(2x18)	340x300x17 mm	17.60	0.57	22.00	0.61
PW15Wp-125-36M	15 W	36PCS(2x18)	450x300x17mm	17.60	0.85	22.00	0.91
PW20Wp-125-36M	20 W	36PCS(2x18)	530x300x17 mm	17.60	1.14	22.00	1.21
PW25Wp-125-36M	25 W	36PCS(4X9)	350x550x17mm	17.70	1.42	22.00	1.52
PW30Wp-125-36M	30 W	36PCS(4X9)	440x550x23 mm	17.70	1.69	22.00	1.82
PW35Wp-125-36M	35 W	36PCS(4X9)	440x550x23 mm	17.80	1.97	22.00	2.12
PW40Wp-125-36M	40 W	36PCS(4X9)	630x550x23 mm	17.80	2.22	22.00	2.42
PW45Wp-125-36M	45 W	36PCS(4X9)	630x550x23 mm	17.80	2.53	22.00	2.73
PW50Wp-125-36M	50 W	36PCS(4X9)	630x550x23 mm	17.80	2.78	22.00	3.03
PW55Wp-125-36M	55 W	36PCS(4X9)	740x550x30 mm	17.80	3.10	22.00	3.33
PW60Wp-125-36M	60 W	36PCS(4X9)	840x550x30 mm	17.80	3.37	22.00	3.64
PW65Wp-125-36M	65 W	36PCS(4X9)	840x550x30 mm	17.80	3.61	22.00	3.94
PW70Wp-125-36M	70 W	36PCS(4X9)	1100x550x30 mm	17.80	3.89	22.00	4.24
PW75Wp-125-36M	75 W	36PCS(4X9)	1100x550x30 mm	17.80	4.17	22.00	4.55
PW80Wp-125-36M	80 W	36PCS(4X9)	1100x550x30 mm	17.80	4.50	22.00	4.85
PW5Wp-156-36M	5 W	36PCS(2x18)	170x360x17mm	17.50	0.29	22.00	0.31
PW10Wp-156-36M	10 W	36PCS(2x18)	290x360x17 mm	17.50	0.57	22.00	0.61
PW15Wp-156-36M	15 W	36PCS(2x18)	400x360x17 mm	17.50	0.86	22.00	0.91
PW20Wp-156-36M	20 W	36PCS(2x18)	490x360x17 mm	17.60	1.14	22.00	1.22
PW25Wp-156-36M	25 W	36PCS(2x18)	650x360x17 mm	17.60	1.42	22.00	1.67
PW30Wp-156-36M	30 W	36PCS(2x18)	650x360x17 mm	17.60	1.70	22.00	1.82
PW35Wp-156-36M	35 W	36PCS(4x9)	420x670x23 mm	17.60	1.99	22.00	2.12
PW40Wp-156-36M	40 W	36PCS(4X9)	540x670x23 mm	17.70	2.26	22.00	2.42
PW45Wp-156-36M	45 W	36PCS(4X9)	540x670x23 mm	17.70	2.55	22.00	2.54
PW50Wp-156-36M	50 W	36PCS(4X9)	540x670x23 mm	17.70	2.83	22.00	3.03
PW55Wp-156-36M	55 W	36PCS(4X9)	770x670x35 mm	17.70	3.12	22.00	3.33
PW60Wp-156-36M	60 W	36PCS(4X9)	770x670x35 mm	17.70	3.39	22.00	3.64
PW65Wp-156-36M	65 W	36PCS(4X9)	770x670x35 mm	17.70	3.67	22.00	3.94
PW70Wp-156-36M	70 W	36PCS(4X9)	770x670x35 mm	17.70	3.89	22.00	4.24
PW75Wp-156-36M	75 W	36PCS(4X9)	770x670x35 mm	17.70	4.24	22.00	4.55
PW80Wp-156-36M	80 W	36PCS(4X9)	1030x670x35 mm	17.70	4.52	22.00	4.85
PW85Wp-156-36M	85 W	36PCS(4X9)	1030x670x35 mm	17.60	4.83	22.00	5.15
PW90Wp-156-36M	90 W	36PCS(4X9)	1030x670x35 mm	17.60	5.11	22.00	5.45
PW95Wp-156-36M	95 W	36PCS(4X9)	1030x670x35 mm	17.60	5.40	22.00	5.76
PW100Wp-156-36M	100 W	36PCS(4X9)	1030x670x35 mm	17.60	5.68	22.00	6.1
PW105Wp-156-36M	105 W	36PCS(4X9)	1140x670x35 mm	17.60	5.96	22.00	6.36
PW110Wp-156-36M	110 W	36PCS(4X9)	1140x670x35 mm	17.60	6.25	22.00	6.67
PW115Wp-156-36M	115 W	36PCS(4X9)	1200x670x35 mm	17.60	6.53	22.00	6.97
PW120Wp-156-36M	120 W	36PCS(4X9)	1250x670x35 mm	17.60	6.82	22.00	7.27
PW125Wp-156-36M	125 W	36PCS(4X9)	1300x670x35 mm	17.60	7.10	22.00	7.58
PW240Wp-156-60M	240 W	60PCS(6X10)	1640x992x40	29.80	8.05	37.0	8.61
PW245Wp-156-60M	245 W	60PCS(6X10)	1640x992x40	29.90	8.19	37.2	8.77
PW250Wp-156-60M	250 W	60PCS(6X10)	1640x992x40	30.00	8.33	37.4	8.83
PW255Wp-156-60M	255 W	60PCS(6X10)	1640x992x40	30.00	8.33	37.4	8.83
PW260Wp-156-60M	260 W	60PCS(6X10)	1640x992x40	30.00	8.33	37.4	8.83
PW265Wp-156-60M	265 W	60PCS(6X10)	1640x992x40	30.00	8.33	37.4	8.83
PW270Wp-156-60M	270 W	60PCS(6X10)	1640x992x40	30.00	8.33	37.4	8.83
PW85Wp-125-36M	85 W	36PCS(4X9)	1200x554x35	18.00	4.72	21.6	5.30
PW90Wp-125-36M	90 W	36PCS(4X9)	1200x554x35	18.00	5.00	22.0	5.56
PW95Wp-125-36M	95 W	36PCS(4X9)	1200x554x35	18.10	5.24	22.2	5.68
PW100Wp-125-36M	100 W	36PCS(4X9)	1200x554x35	18.20	5.49	22.4	5.85
PW125Wp-125-54M	125 W	54PCS(6X9)	1200X808X35	26.80	4.66	31.6	5.66
PW130Wp-125-54M	130 W	54PCS(6X9)	1200X808X35	26.90	4.83	31.8	5.87
PW135Wp-125-54M	135 W	54PCS(6X9)	1200X808X35	27.00	5.00	31.8	6.04
PW140Wp-125-60M	140 W	60PCS(6X10)	1328x808x35	29.50	4.75	35.4	5.46
PW145Wp-125-60M	145 W	60PCS(6X10)	1328x808x35	29.70	4.88	35.6	5.62
PW150Wp-125-60M	150 W	60PCS(6X10)	1328x808x35	29.90	5.02	35.8	5.77
PW155Wp-125-60M	155 W	60PCS(6X10)	1328x808x35	30.10	5.15	36.0	5.93
PW160Wp-125-60M	160 W	60PCS(6X10)	1328x808x35	30.20	5.30	36.2	6.08
PW170Wp-125-72M	170 W	72PCS(6X12)	1580x808x40	35.50	4.79	43.6	5.20
PW175Wp-125-72M	175 W	72PCS(6X12)	1580x808x40	35.70	4.77	43.8	5.33
PW180Wp-125-72M	180 W	72PCS(6X12)	1580x808x40	35.90	5.01	44.0	5.45

PW185Wp-125-72M	185 W	72PCS(6X12)	1580x808x40	36.10	5.12	44.2	5.50
PW190Wp-125-72M	190 W	72PCS(6X12)	1580x808x40	36.30	5.23	44.4	5.63
PW195Wp-125-72M	195 W	72PCS(6X12)	1580x808x40	36.50	5.34	44.6	5.68
PW130Wp-156-36M	130 W	36PCS(4X9)	1470x680x35	17.60	7.39	21.5	8.06
PW135Wp-156-36M	135 W	36PCS(4X9)	1470x680x35	17.70	7.63	21.5	8.37
PW140Wp-156-36M	140 W	36PCS(4X9)	1470x680x35	17.80	7.87	21.8	8.56
PW145Wp-156-36M	145 W	36PCS(4X9)	1470x680x35	17.90	8.10	22.0	8.78
PW150Wp-156-36M	150 W	36PCS(4X9)	1470x680x35	18.00	8.33	22.0	9.10
PW175Wp-156-48M	175 W	48PCS(6X8)	1320x992x35	23.50	7.45	28.6	8.16
PW180Wp-156-48M	180 W	48PCS(6X8)	1320x992x35	23.60	7.63	28.7	8.36
PW185Wp-156-48M	185 W	48PCS(6X8)	1320x992x35	23.70	7.81	28.8	8.45
PW190Wp-156-48M	190 W	48PCS(6X8)	1320x992x35	23.70	8.02	28.8	8.47
PW195Wp-156-48M	195 W	48PCS(6X8)	1320x992x35	23.80	8.19	29.0	8.85
PW200Wp-156-48M	200 W	48PCS(6X8)	1320x992x35	23.90	8.37	29.0	9.08
PW195Wp-156-54M	195 W	54PCS(6X9)	1480x992x40	26.50	7.36	32.0	8.12
PW200Wp-156-54M	200 W	54PCS(6X9)	1480x992x40	26.60	7.52	32.2	8.28
PW205Wp-156-54M	205 W	54PCS(6X9)	1480x992x40	26.70	7.68	32.4	8.44
PW210Wp-156-54M	210 W	54PCS(6X9)	1480x992x40	26.80	7.84	32.5	8.62
PW215Wp-156-54M	215 W	54PCS(6X9)	1480x992x40	26.90	7.99	32.6	8.62
PW220Wp-156-54M	220 W	54PCS(6X9)	1480x992x40	27.00	8.15	32.8	8.79
PW225Wp-156-54M	225 W	54PCS(6X9)	1480x992x40	27.10	8.30	32.9	8.94
PW215Wp-156-60M	215 W	60PCS(6X10)	1640x992x40	29.30	7.34	36.0	8.10
PW220Wp-156-60M	220 W	60PCS(6X10)	1640x992x40	29.40	7.48	36.2	8.15
PW225Wp-156-60M	225 W	60PCS(6X10)	1640x992x40	29.50	7.63	36.2	8.17
PW230Wp-156-60M	230 W	60PCS(6X10)	1640x992x40	29.60	7.77	36.4	8.29
PW235Wp-156-60M	235 W	60PCS(6X10)	1640x992x40	29.70	7.91	36.5	8.47
PW240Wp-156-60M	240 W	60PCS(6X10)	1640x992x40	29.80	8.05	37.0	8.61
PW245Wp-156-60M	245 W	60PCS(6X10)	1640x992x40	29.90	8.19	37.2	8.77
PW250Wp-156-60M	250 W	60PCS(6X10)	1640x992x40	30.00	8.33	37.4	8.83
PW260Wp-156-72M	260 W	72PCS(6X12)	1956x992x40	36.00	7.36	44.0	8.00
PW265Wp-156-72M	265 W	72PCS(6X12)	1956x992x40	36.10	7.34	44.2	8.10
PW270Wp-156-72M	270 W	72PCS(6X12)	1956x992x40	36.20	7.46	44.4	8.20
PW275Wp-156-72M	275 W	72PCS(6X12)	1956x992x40	36.30	7.58	44.5	8.30
PW280Wp-156-72M	280 W	72PCS(6X12)	1956x992x40	36.40	7.69	44.8	8.32
PW285Wp-156-72M	285 W	72PCS(6X12)	1956x992x40	36.50	7.81	45.0	8.45
PW290Wp-156-72M	290 W	72PCS(6X12)	1956x992x40	36.60	7.92	45.0	8.60
PW295Wp-156-72M	295 W	72PCS(6X12)	1956x992x40	36.80	8.02	45.4	8.55
PW300Wp-156-72M	300 W	72PCS(6X12)	1956x992x40	36.90	8.14	45.5	8.63
PW305Wp-156-72M	305 W	72PCS(6X12)	1956x992x40	37.00	8.25	45.6	8.73
PW310Wp-156-72M	310 W	72PCS(6X12)	1956x992x40	37.10	8.36	45.7	8.83
PW315Wp-156-72M	315 W	72PCS(6X12)	1956x992x40	37.20	8.47	45.8	8.92
PW320Wp-156-72M	320 W	72PCS(6X12)	1956x992x40	37.30	8.58	45.9	9.02
PW325Wp-156-72M	325 W	72PCS(6X12)	1956x992x40	37.40	8.69	46.0	9.12
PW330Wp-156-72M	330 W	72PCS(6X12)	1956x992x40	37.50	8.80	46.1	9.21
PW335Wp-156-72M	335 W	72PCS(6X12)	1956x992x40	37.60	8.90	46.2	9.32
PW340Wp-156-72M	340 W	72PCS(6X12)	1956x992x40	37.70	9.02	46.3	9.42
PW350Wp-156-72M	350 W	72PCS(6X12)	1956x992x40	38.76	9.03	46.8	9.64

### POLY SOLAR PANEL SPECS

Model	Power (Wp)	Solar Cell Array	Size: MM ( L x W x H )	Vmp (V)	Imp (A)	Voc (V)	Isc (A)
PW5Wp-156-36P	5 W	36PCS(2x18)	170*360*17 mm	17.50	0.29	21.8	0.30
PW10Wp-156-36P	10 W	36PCS(2x18)	290*360*17 mm	17.50	0.57	21.8	0.61
PW15Wp-156-36P	15 W	36PCS(2x18)	400*360*17 mm	17.50	0.86	21.8	0.91
PW20Wp-156-36P	20 W	36PCS(2x18)	490*360*17 mm	17.60	1.14	21.8	1.21
PW25Wp-156-36P	25 W	36PCS(2x18)	650*360*17 mm	17.60	1.42	21.8	1.53
PW30Wp-156-36P	30 W	36PCS(2x18)	650*360*17 mm	17.60	1.70	21.8	1.83
PW35Wp-156-36P	35 W	36PCS(4x9)	420*670*23 mm	17.60	1.99	21.8	2.14
PW40Wp-156-36P	40 W	36PCS(4X9)	540*670*23 mm	17.60	2.27	21.8	2.45
PW45Wp-156-36P	45 W	36PCS(4X9)	540*670*23 mm	17.60	2.56	21.8	2.75
PW50Wp-156-36P	50 W	36PCS(4X9)	540*670*23 mm	17.60	2.84	21.8	3.10
PW55Wp-156-36P	55 W	36PCS(4X9)	770*670*35 mm	17.60	3.13	21.8	3.36
PW60Wp-156-36P	60 W	36PCS(4X9)	770*670*35 mm	17.60	3.41	21.8	3.67
PW65Wp-156-36P	65 W	36PCS(4X9)	770*670*35 mm	17.60	3.70	21.8	3.97

PW70Wp-156-36P	70 W	36PCS(4X9)	770*670*35 mm	17.60	3.98	21.8	4.28
PW75Wp-156-36P	75 W	36PCS(4X9)	1030*670*35 mm	17.60	4.26	21.8	4.59
PW80Wp-156-36P	80 W	36PCS(4X9)	1030*670*35 mm	17.60	4.55	21.8	4.90
PW85Wp-156-36P	85 W	36PCS(4X9)	1030*670*35 mm	17.60	4.83	21.8	5.20
PW90Wp-156-36P	90 W	36PCS(4X9)	1030*670*35 mm	17.60	5.11	21.8	5.51
PW95Wp-156-36P	95 W	36PCS(4X9)	1030*670*35 mm	17.60	5.40	21.8	5.81
PW100Wp-156-36P	100 W	36PCS(4X9)	1090*670*35 mm	17.60	5.68	21.8	6.12
PW105Wp-156-36P	105 W	36PCS(4X9)	1090*670*35 mm	17.60	5.96	21.8	6.42
PW110Wp-156-36P	110 W	36PCS(4X9)	1190*670*35 mm	17.60	6.25	21.8	6.66
PW115Wp-156-36P	115 W	36PCS(4X9)	1250*670*35 mm	17.60	6.53	21.8	7.03
PW120Wp-156-36P	120 W	36PCS(4X9)	1290*670*35 mm	17.60	6.82	21.8	7.34
PW125Wp-156-36P	125 W	36PCS(4X9)	1350*670*35 mm	17.60	7.10	21.8	7.65
PW130Wp-156-36P	130 Wp	36PCS(4X9)	1470x680x35	17.50	7.43	21.50	8.06
PW135Wp-156-36P	135 Wp	36PCS(4X9)	1470x680x35	17.60	7.67	21.60	8.33
PW140Wp-156-36P	140 Wp	36PCS(4X9)	1470x680x35	17.70	7.80	21.70	8.42
PW145Wp-156-36P	145 Wp	36PCS(4X9)	1470x680x35	17.80	7.90	21.80	8.48
PW150Wp-156-36P	150 Wp	36PCS(4X9)	1470x680x35	17.90	8.00	21.90	8.55
PW155Wp-156-36P	155 Wp	36PCS(4X9)	1470x680x35	18.00	8.05	22.00	8.60
PW160Wp-156-36P	160 Wp	36PCS(4X9)	1470x680x35	18.10	8.10	22.10	8.71
PW165Wp-156-36P	165 Wp	36PCS(4X9)	1470x680x35	18.20	8.20	22.20	8.80
PW170Wp-156-48P	175 Wp	48PCS(6X8)	1320x992x35	23.70	7.38	28.60	8.16
PW175Wp-156-48P	175 Wp	48PCS(6X8)	1320x992x35	23.70	7.38	28.60	8.16
PW180Wp-156-48P	180 Wp	48PCS(6X8)	1320x992x35	23.70	7.59	28.60	8.39
PW185Wp-156-48P	185 Wp	48PCS(6X8)	1320x992x35	23.80	7.77	28.80	8.45
PW190Wp-156-48P	190 Wp	48PCS(6X8)	1320x992x35	23.90	7.95	29.00	8.62
PW195Wp-156-54P	195 Wp	54PCS(6X9)	1480x992x40	26.50	7.36	31.80	8.18
PW200Wp-156-54P	200 Wp	54PCS(6X9)	1480x992x40	26.60	7.52	32.00	8.33
PW205Wp-156-54P	205 Wp	54PCS(6X9)	1480x992x40	26.70	7.68	32.00	8.54
PW210Wp-156-54P	210 Wp	54PCS(6X9)	1480x992x40	26.80	7.84	32.50	8.62
PW215Wp-156-60P	215 Wp	60PCS(6X10)	1640x992x40	29.30	7.34	35.60	8.05
PW220Wp-156-60P	220 Wp	60PCS(6X10)	1640x992x40	29.40	7.48	35.60	8.19
PW225Wp-156-60P	225 Wp	60PCS(6X10)	1640x992x40	29.50	7.63	35.80	8.34
PW230Wp-156-60P	230 Wp	60PCS(6X10)	1640x992x40	29.60	7.77	35.80	8.57
PW235Wp-156-60P	235 Wp	60PCS(6X10)	1640x992x40	29.70	7.91	35.80	8.70
PW260Wp-156-66P	260 Wp	66PCS(6X11)	1790x992x40	33.00	7.88	39.80	8.60
PW250Wp-156-60P	250 Wp	60PCS(6X10)	1640x992x40	29.70	7.91	35.80	8.70
PW255Wp-156-60P	255 Wp	60PCS(6X10)	1640x992x40	29.70	7.91	35.80	8.70
PW260Wp-156-60P	260 Wp	60PCS(6X10)	1640x992x40	29.70	7.91	35.80	8.70
PW265Wp-156-60P	265 Wp	60PCS(6X10)	1640x992x40	29.70	7.91	35.80	8.70
PW270Wp-156-60P	270 Wp	60PCS(6X10)	1640x992x40	29.70	7.91	35.80	8.70
PW260Wp-156-72P	260 Wp	72PCS(6X12)	1956x992x40	35.30	7.37	43.00	8.06
PW265Wp-156-72P	265 Wp	72PCS(6X12)	1956x992x40	35.40	7.49	43.20	8.18
PW270Wp-156-72P	270 Wp	72PCS(6X12)	1956x992x40	35.50	7.61	43.20	8.33
PW275Wp-156-72P	275 Wp	72PCS(6X12)	1956x992x40	35.60	7.72	44.20	8.48
PW280Wp-156-72P	280 Wp	72PCS(6X12)	1956x992x40	35.70	7.84	44.30	8.62
PW285Wp-156-72M	285Wp	72PCS(6X12)	1956x992x40	35.80	7.86	44.40	8.66
PW290Wp-156-72M	290Wp	72PCS(6X12)	1956x992x40	35.90	7.88	44.50	8.72
PW295Wp-156-72M	295Wp	72PCS(6X12)	1956x992x40	36.00	7.92	44.60	8.78
PW300Wp-156-72P	300Wp	72PCS(6X12)	1956x992x40	36.00	7.95	44.70	8.84
PW305Wp-156-72P	305Wp	72PCS(6X12)	1956x992x40	36.00	7.95	44.70	8.84
PW310Wp-156-72P	310Wp	72PCS(6X12)	1956x992x40	36.00	7.95	44.70	8.84
PW315Wp-156-72P	315Wp	72PCS(6X12)	1956x992x40	36.00	7.95	44.70	8.84
PW320Wp-156-72P	320Wp	72PCS(6X12)	1956x992x40	36.00	7.95	44.70	8.84

## Structure

1. Front Material: 3.2MM low-iron toughened matte glass porcelain
2. Back Material: White TPT\TPE
3. Bondable Barrier Film: EVA
4. Frame: Aluminum alloy plated with oxidation film
5. The warranty of a standard about 25 years/80% efficiency on maximum output  
10 years /90% efficiency on maximum and 12 years warranty on workmanship
6. Module size can be changed according to the customers' requirement.
7. Standard testing conditions: Am1.5 25°C 1000W/m2

## Reference Pics

