

Solar Panel Comparison

Manufacturer	AKKANAT HOLDING A.S.	Anji Dasol Solar Energy Science & Technology	Green Energy Solar & Wind	QS Solar	Sanyo Electric	United Solar Ovonic	Zytech Solar
Model	ASP175	DS-B5-190	GET 343	QS90DGF	HIP-205NKHA6	22-L-B / 22-L-T	ZT 160S
STC Rated Power Output (W)	175	190	343	90	205	128	160
Voltage at Rated Power (V)	23.80	36.00	154.00	82.40	40.70	33.00	34.04
Current at Rated Power (A)	7.35	5.28	2.20	1.09	5.05	3.88	4.70
Open Circuit Voltage (V)	29.00	43.20	196.00	115.40	50.30	47.60	42.48
Short Circuit Current (A)	7.94	6.11	2.90	1.26	5.54	4.80	5.40
Fill Factor	76.0%	72.0%	60.3%	62.1%	73.6%	56.0%	69.7%
Panel Efficiency	13.0%	14.9%	6.0%	5.8%	16.3%	5.9%	12.5%
Power Tolerance	-3.00% ~ 3.00%			-5.00% ~ 5.00%	0.00% ~ 10.00%	-5.00% ~ 5.00%	-3.00% ~ 3.00%
Power Temperature Coefficiency (%/°C)					-0.34		
Temperature Coefficiency VOC (%/°C)		-0.38			-0.28		
Temperature Coefficiency ISC (%/°C)		0.100			0.035		
NOCT (°C)					46.0		
Panel Height (mm)	1351		2600	1408	1580	5486	1582
Panel Width (mm)	990		2200	1108	798	394	808
Panel Depth (mm)	40		8	35	46	2	50
Panel Area (M^2)	1.34		5.72	1.56	1.26	2.16	1.28
Panel Weight (kg)	19.0		100.0	26.6	16.0	5.0	15.5
Material/Output Warranty (Years)					5/10/25		
PTC Power Output (W)					190.2		
PTC/STC Ratio					92.8%		
Estimated Power At NOCT (W)					152.3		

- PTC Power: The output power under PVUSA Test Conditions. 1000 W/M2 solar irradiance, 20°C ambient air temperature, and 1m/s wind speed at 10 meters above ground level.
- Estimated Power At NOCT: The estimated output power under the NOCT conditions: 800 W/M2 solar irradiance, 20°C ambient air temperature, and 1m/s wind speed.
- The report is generated from the solar panel database at www.posharp.com. Contact Posharp at 888-429-7989 for special services, including solar panel supplies