Solar Panel Comparison

Manufacturer	Schott Solar	Sharp					Siliken S.A.			SolarWorld AG			Solon SE		Suniva Inc.
Model	SCHOTT POLY 235	ND-U235Q1	ND-U235Q2	NU-U235F1	NU-U235F3	NU-U235F4	SLK60P6L BLK/BLK 235Wp	SLK60P6L BLK/WHT 235Wp	SLK60P6L SLV/WHT 235Wp	SW235 mono	SW235 Mono Black	SW235 poly	SOLON Black 230/15/01 235Wp	SOLON Black 230/6+/01 235Wp	ART235-60-3-1
STC Rated Power Output (W)	235	235	235	235	235	235	235	235	235	235	235	235	235	235	235
Voltage at Rated Power (V)	30.20	30.10	30.10	30.00	30.01	30.10	29.50	29.50	29.50	30.30	30.30	30.00	29.41	29.41	31.10
Current at Rated Power (A)	7.78	7.81	7.81	7.84	7.81	7.81	7.97	7.97	7.97	7.77	7.77	7.85	7.99	7.99	7.56
Open Circuit Voltage (V)	37.10	37.20	37.20	37.00	37.00	37.00	36.90	36.90	36.90	37.50	37.50	37.00	36.48	36.48	37.10
Short Circuit Current (A)	8.42	8.59	8.59	8.60	8.50	8.50	8.47	8.47	8.47	8.19	8.19	8.35	8.47	8.47	8.28
Fill Factor	75.2%	73.5%	73.5%	73.9%	74.7%	74.7%	75.2%	75.2%	75.2%	76.5%	76.5%	76.1%	76.1%	76.1%	76.5%
Panel Efficiency	14.0%	14.4%	14.4%	14.4%	14.4%	14.4%	14.5%	14.5%	14.5%	14.0%	14.0%	14.0%	14.3%	14.3%	14.5%
Power Tolerance	0.00% ~ 2.00%	-5.00% ~ 10.00%	-5.00% ~ 10.00%	-5.00% ~ 10.00%	-5.00% ~ 10.00%	-5.00% ~ 10.00%	-3.00% ~ 3.00%	-3.00% ~ 3.00%	-3.00% ~ 3.00%	0.00% ~ 0.50%	0.00% ~ 0.50%	0.00% ~ 0.50%	-3.00% ~ 3.00%	-3.00% ~ 3.00%	-2.00% ~ 2.00%
Power Temperature Coefficiency (%/°C)	-0.45	-0.49	-0.49	-0.49	-0.49	-0.49	-0.43	-0.43	-0.43	-0.45	-0.45	-0.48	-0.47	-0.47	-0.46
Temperature Coefficiency VOC (%/°C)	-0.33	-0.36	-0.36	-0.36	-0.35	-0.35	-0.36	-0.36	-0.36	-0.30	-0.33	-0.34	-0.36	-0.36	-0.33
Temperature Coefficiency ISC (%/°C)	0.030	0.053	0.053	0.053	0.053	0.053	0.062	0.056	0.062	0.040	0.042	0.034	0.040	0.040	0.036
NOCT (°C)	47.2	47.5	47.5	47.5	47.5	47.5	49.0	49.0	49.0	46.0	47.0	46.0	48.0	48.0	46.0
Panel Height (mm)	1685	1640	1640	1640	1640	1640	1640	1640	1640	1675	1675	1675	1640	1640	1653
Panel Width (mm)	993	994	994	994	994	998	990	990	990	1001	1001	1001	1000	1000	982
Panel Depth (mm)	50	46	46	58	58	58	40	40	40	31	31	31	42	42	46
Panel Area (M^2)	1.67	1.63	1.63	1.63	1.63	1.64	1.62	1.62	1.62	1.68	1.68	1.68	1.64	1.64	1.62
Panel Weight (kg)	23.0	20.0	20.0	20.0	20.0	20.0	19.0	19.0	19.0	21.2	22.0	22.0	23.5	23.5	18.7
Material/Output Warranty (Years)	5/10/25	5/10/25	5/10/25	5/10/25	5/10/25	5/10/25	10/10/25	10/10/25	10/10/25	5/10/25	5/10/25	5/10/25	5/10/25	5/10/25	5/12/25
PTC Power Output (W)	212.4	211.8	212.0	211.7	211.7	211.7	209.0	206.6	210.7	210.4	209.8	209.8	200.7	203.4	203.3
PTC/STC Ratio	90.4%	90.1%	90.2%	90.1%	90.1%	90.1%	88.9%	87.9%	89.7%	89.5%	89.3%	89.3%	85.4%	86.6%	86.5%
Estimated Power At NOCT (W)	169.2	167.3	167.3	167.3	167.3	167.4	168.6	168.6	168.6	170.2	169.4	169.0	167.7	167.7	169.8

- 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