

Solar panel efficiency rating of PV models by manufacturer

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SOLAR PANEL MANUFACTURER	MINIMUM EFFICIENCY (%)	MAXIMUM EFFICIENCY (%)	AVERAGE EFFICIENCY (%)
SunPower	16.50%	22.80%	20.62%
LG	18.40%	21.70%	20.12%
Panasonic	19.10%	20.30%	19.63%
Solaria	19.40%	19.80%	19.53%
Solartech Universal	19.00%	19.90%	19.45%
Trina Solar	19.00%	19.00%	19.00%
REC Solar	16.50%	21.70%	18.90%
Silfab	17.80%	20.00%	18.78%
Mission Solar Energy	18.05%	18.95%	18.55%
LONGi Solar	17.40%	19.30%	18.34%
Hyundai	16.20%	18.90%	18.32%
Hanwha Q CELLS	17.10%	19.60%	18.31%
Winaico	17.13%	19.40%	18.26%
CertainTeed Solar	15.40%	19.40%	18.25%
Upsolar	16.50%	19.40%	17.92%
Recom Solar	16.00%	19.07%	17.67%
Peimar Group	16.60%	19.05%	17.54%
Trina Solar Energy	16.20%	18.60%	17.42%
Heliene	15.60%	19.30%	17.31%
Renogy Solar	15.30%	18.50%	17.30%
Talesun	16.90%	17.50%	17.20%
BenQ Solar (AUO)	15.50%	18.30%	17.19%
JinkoSolar	15.57%	19.55%	17.17%
Suniva Inc	16.66%	17.65%	17.14%
Phono Solar	15.66%	18.44%	17.04%
Boviet Solar	16.50%	17.50%	16.98%

SOLAR PANEL MANUFACTURER	MINIMUM EFFICIENCY (%)	MAXIMUM EFFICIENCY (%)	AVERAGE EFFICIENCY (%)
S-Energy	15.61%	18.46%	16.95%
Canadian Solar	15.88%	18.33%	16.88%
Grape Solar	16.21%	17.64%	16.75%
ET Solar	15.67%	17.52%	16.60%
Mitsubishi Electric	16.30%	16.90%	16.60%
Seraphim	15.67%	17.52%	16.55%
Hansol	14.97%	18.05%	16.49%
GCL	16.00%	17.00%	16.48%
Neo Solar Power	16.00%	17.00%	16.48%
Axitec	15.37%	17.90%	16.47%
RGS Energy	15.60%	17.10%	16.35%
CentroSolar	15.30%	17.80%	16.21%
Amerisolar	14.75%	17.01%	15.97%
ReneSola	14.90%	16.90%	15.91%
China Sunergy	14.98%	16.53%	15.78%
Kyocera	14.75%	16.11%	15.42%
Green Brilliance	14.24%	15.58%	15.03%