Manufacturer: SatCon Power Systems

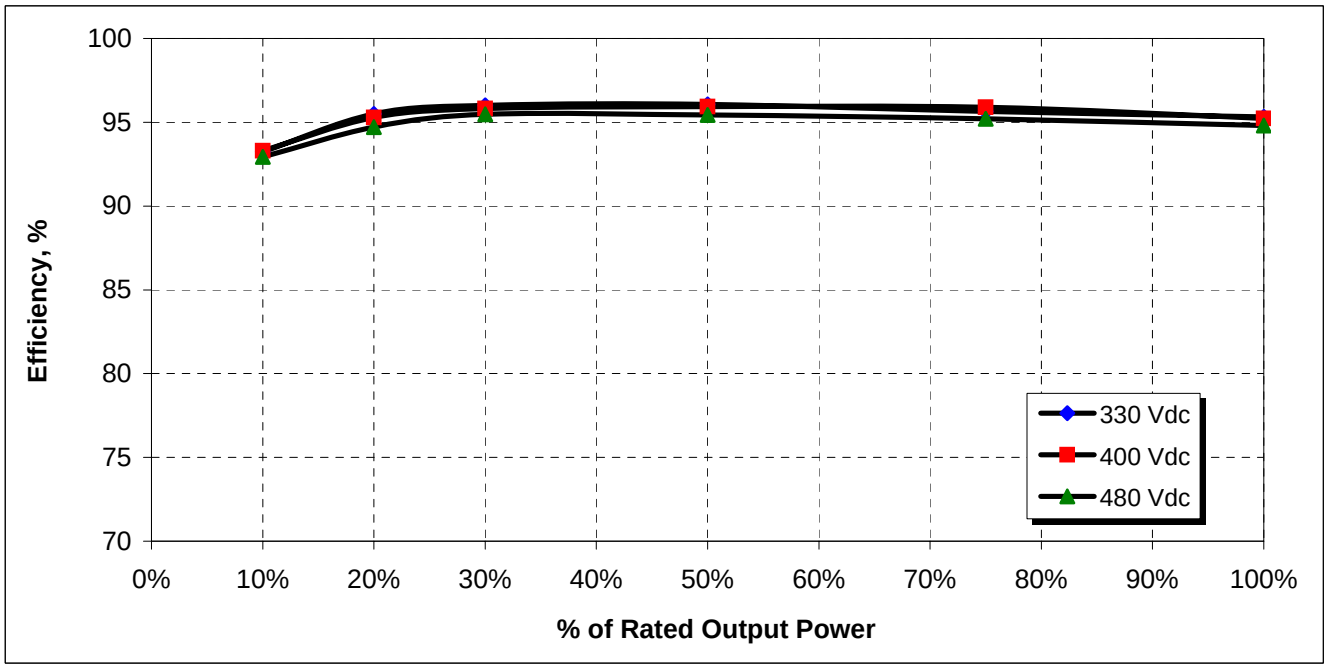
Model #: AE-100-60-PV-A-HE

Rated Maximum Continuous Output Power: 100.00 kW Night Tare Loss: 97.70 W

Vmin: 330 Vdc Vnom: 400 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		10.00	20.00	30.00	50.00	75.00	100.00	Wtd
Vmin	330	93.2	95.5	96.0	96.1	95.6	95.3	95.7
Vnom	400	93.3	95.3	95.8	95.9	95.9	95.2	95.7
Vmax	480	92.9	94.7	95.5	95.4	95.2	94.8	95.2

CEC Efficiency = 95.5%



Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	9988.73	348.31	93.022	10054	347.7	93.366	9982.5	347.89	92.977	10085	348.34	93.603	10034	348.12	93.244
20%	Vmin	20033.9	342.91	95.610	20047	343.35	95.493	20033	343.38	95.479	20008	343.09	95.418	20036	342.95	95.474
30%	Vmin	30096.7	340.62	95.968	30083	340.59	96.171	29999	340.81	95.876	30123	340.6	96.044	30002	340.96	95.942
50%	Vmin	50052.3	338.96	96.145	50039	339.19	96.095	50073	338.63	96.191	50009	338.83	96.112	49954	339.06	95.811
75%	Vmin	74958.7	337.63	95.685	75062	337.89	95.661	74951	337.58	95.613	74894	336.98	95.641	74925	336.5	95.643
100%	Vmin	99928.3	332.28	95.290	100170	334.12	95.334	99950	335.5	95.348	100089	336.21	95.331	100052	336.3	95.343
10%	Vnom	10119.6	403.4	93.079	10153	404.74	93.222	10175	404.69	93.643	10145	400.88	93.280	10153	399.15	93.246
20%	Vnom	20150.4	400.15	95.179	20154	400.19	95.272	20160	400.49	95.383	20174	400.5	95.308	20157	400.67	95.302
30%	Vnom	30222	401.05	95.813	30188	400.88	95.881	30174	400.98	95.810	30213	401.3	95.735	30196	401.82	95.871
50%	Vnom	50259.7	394.76	96.013	50263	395.01	96.102	50325	395.6	96.069	50305	396.31	95.954	50016	396.72	95.495
75%	Vnom	75080.7	392.41	95.542	75261	393.02	95.619	76398	392.58	97.175	75109	392.72	95.570	75120	392.51	95.548
100%	Vnom	100161	391.46	95.237	100469	391.76	95.275	100196	391.44	95.228	100374	392.02	95.183	100234	391.92	95.211
10%	Vmax	9264.13	500.44	92.444	9255.4	500.26	95.299	9222.8	500.23	92.237	9297.6	501.04	92.483	9262.6	501.11	92.218
20%	Vmax	20242.7	498.32	94.715	20193	497.78	94.782	20176	497.59	94.785	20218	497.9	94.834	20288	499.04	94.407
30%	Vmax	30333.3	495.37	95.471	30349	495.42	95.446	30300	495.11	95.625	30249	495.16	95.438	30267	495.37	95.391
50%	Vmax	50360.3	489.61	95.599	50229	489.39	95.504	50177	490.04	95.287	50146	490.95	95.269	50396	491.3	95.522
75%	Vmax	75223.3	486.19	95.160	75261	486.26	95.215	75272	486.48	95.232	75261	486.34	95.255	75272	486.32	95.196
100%	Vmax	100405	480.89	94.840	100380	480.73	94.864	100455	480.54	94.570	100392	481.19	94.891	100416	481.41	94.841

Specified		Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
30%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															
50%	Vmax															
75%	Vmax															
100%	Vmax															