Manufacturer: SatCon Power Systems

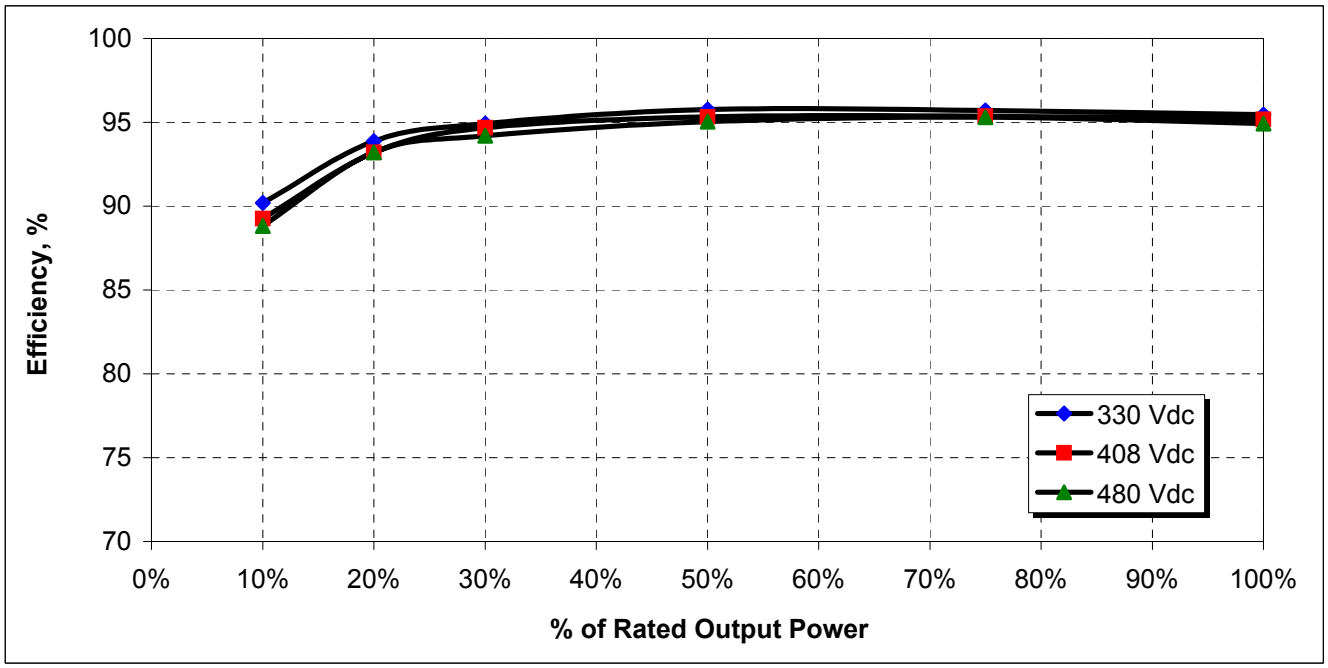
Model #: AE-100-60-PV-F

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

Vmin: 330 Vdc Vnom: 408 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	90.2	93.9	94.9	95.8	95.7	95.5	95.3
Vnom	408	89.3	93.2	94.7	95.3	95.4	95.2	94.9
Vmax	480	88.8	93.2	94.2	95.0	95.3	94.9	94.7

CEC Efficiency = 95.0%



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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	9.86	347.38	90.530	9.86	347.31	89.720	9.87	347.46	90.400	9.83	348.13	89.900	9.86	347.41	90.640
20%	Vmin	19.91	345.22	93.580	19.91	345.12	93.990	19.91	345.39	93.740	19.91	345.94	93.690	19.92	345.15	94.130
30%	Vmin	30.01	342.28	95.030	30	342.33	95.050	30	342.51	94.700	30	342.87	95.170	29.98	342.35	94.730
50%	Vmin	50.2	339.09	95.660	50.2	338.7	95.880	50.21	338.39	95.700	50.22	338	95.970	50.19	337.8	95.720
75%	Vmin	75.57	332.73	95.740	75.33	332.93	95.590	75.55	332.62	95.720	75.59	333.22	95.680	75.62	333.07	95.790
100%	Vmin	101.28	327.8	95.470	101.27	327.6	95.480	101.24	327.88	95.440	101.16	328.11	95.450	101.29	327.69	95.470
10%	Vnom	9.89	413.95	88.400	9.97	414.45	89.090	9.91	414.37	89.590	9.89	414.83	89.390	9.89	414.13	90.110
20%	Vnom	19.91	413.82	93.420	19.92	413.67	93.440	19.92	414.01	93.500	19.95	414.11	92.890	19.91	413.95	92.820
30%	Vnom	29.97	412.91	94.570	29.99	413.22	94.450	29.99	412.96	94.770	29.98	412.89	94.730	29.98	413.35	94.740
50%	Vnom	50.09	409.16	95.310	50.08	409.39	95.610	50.07	409.35	95.320	50.09	409.67	95.400	50.08	409.54	95.290
75%	Vnom	75.23	407.25	95.380	75.21	407.36	95.300	75.23	406.98	95.410	75.2	407.16	95.420	75.21	407.73	95.300
100%	Vnom	100.37	403.26	95.160	100.33	403.72	95.160	100.4	403.34	95.210	100.37	403.46	95.210	100.3	402.66	95.150
10%	Vmax	9.95	491.79	88.200	9.94	491.84	88.850	9.95	491.79	89.200	9.95	492.23	88.880	9.95	491.42	88.090
20%	Vmax	20	491.7	93.430	20	491.49	93.620	20.01	492.78	93.040	19.99	492.41	93.090	19.99	492.15	92.920
30%	Vmax	30.04	489.51	94.410	30.05	489.07	94.310	30.04	488.9	94.260	30.02	487.69	94.210	30.03	488.29	94.070
50%	Vmax	50.14	485.59	95.040	50.15	486.32	94.890	50.16	487.15	95.160	50.15	487.25	95.260	50.14	487	94.930
75%	Vmax	75.28	481.57	95.340	75.31	482.07	95.360	75.27	481.72	95.330	75.29	481.47	95.410	75.28	480.44	95.200
100%	Vmax	100.47	477.21	94.980	100.47	477.97	94.910	100.38	478.01	94.930	100.44	477.47	94.940	100.39	477.22	94.850

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	9.86	347.62	89.930												
20%	Vmin	19.91	345.45	94.110												
30%	Vmin	30	342.47	94.810												
50%	Vmin	50.19	338	95.640												
75%	Vmin	75.61	333.09	95.760												
100%	Vmin	101.25	327.54	95.450												
10%	Vnom	9.9	414.21	88.980												
20%	Vnom	19.94	413.65	93.200												
30%	Vnom	29.96	412.91	94.800												
50%	Vnom	50.07	409.5	95.000												
75%	Vnom	75.2	407.39	95.360												
100%	Vnom	100.36	403.57	95.180												
10%	Vmax	9.95	491.26	89.630												
20%	Vmax	19.98	490.75	93.160												
30%	Vmax	30.07	488.12	93.920												
50%	Vmax	50.14	487.05	94.980												
75%	Vmax	75.27	481.13	95.170												
100%	Vmax	100.46	477.55	94.970												