Manufacturer: SatCon Power Systems

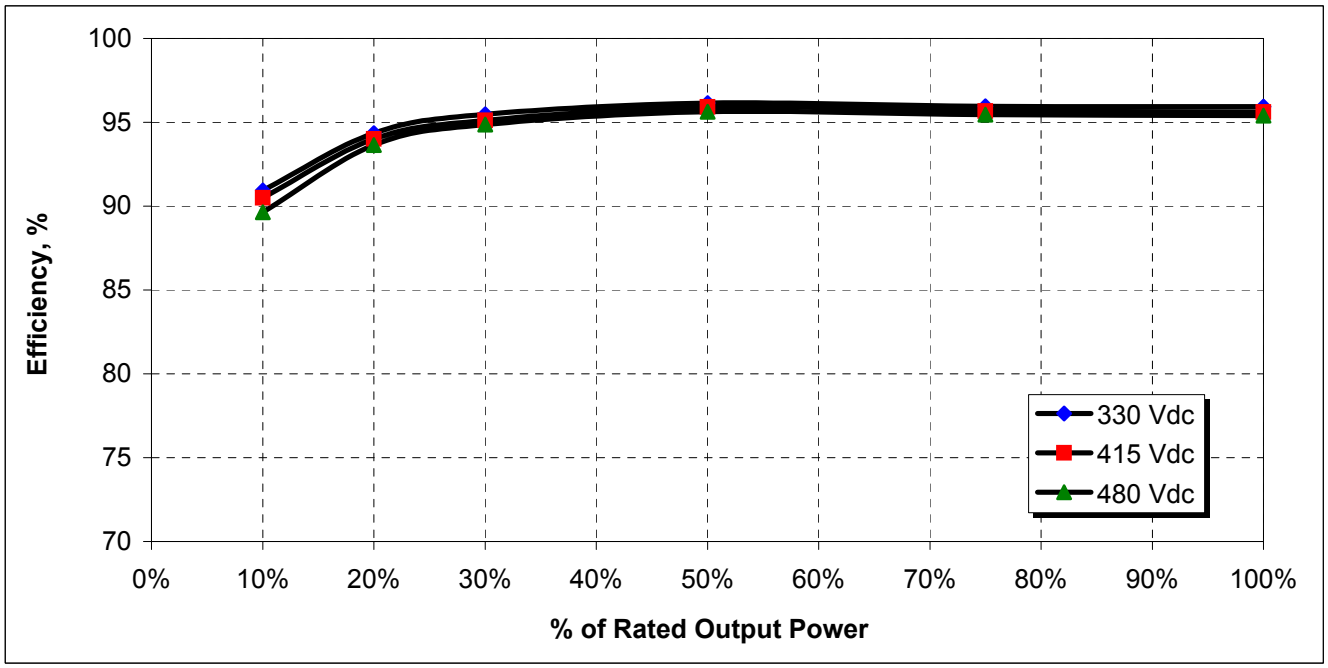
Model #: AE-75-60-PV-D

Rated Maximum Continuous Output Power: 75.00 kW Night Tare Loss: 99.00 W

Vmin: 330 Vdc Vnom: 415 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		7.50	15.00	22.50	37.50	56.25	75.00	Wtd
Vmin	330	90.9	94.4	95.5	96.1	96.0	95.9	95.7
Vnom	415	90.5	94.0	95.1	95.9	95.7	95.6	95.4
Vmax	480	89.6	93.6	94.9	95.6	95.5	95.4	95.1

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	7.54	335.24	90.940	7.54	335.59	90.920	7.53	335.14	90.930	7.54	334.75	90.940	7.54	334.8	90.950
20%	Vmin	15.07	332.93	94.350	15.08	333.02	94.360	15.09	332.63	94.340	15.07	332.79	94.350	15.07	333.54	94.340
30%	Vmin	22.51	331.37	95.470	22.5	331.42	95.500	22.53	332.3	95.450	22.51	332.08	95.450	22.48	331.19	95.470
50%	Vmin	37.61	332.82	96.160	37.62	333.38	96.140	37.58	333.17	96.150	37.62	333.11	96.160	37.6	333.15	96.140
75%	Vmin	56.27	329.04	95.950	56.3	328.83	95.950	56.28	329.34	95.950	56.31	329.77	95.950	56.27	329.14	95.960
100%	Vmin	75.02	325.71	95.930	75.08	326.01	95.920	75.07	325.14	95.930	75.06	325.55	95.940	75.07	325.77	95.920
10%	Vnom	7.6	414.34	90.540	7.58	415.31	90.500	7.59	415.32	90.510	7.6	415.34	90.510	7.59	415.43	90.460
20%	Vnom	15.11	413.84	94.070	15.11	413.86	94.040	15.1	414.78	94.000	15.11	416.17	94.000	15.11	415.74	93.990
30%	Vnom	22.52	414.07	95.100	22.52	413.71	95.150	22.52	414	95.130	22.51	412.95	95.110	22.5	415.04	95.100
50%	Vnom	37.53	410.08	95.950	37.54	410.03	95.930	37.49	409.48	95.910	37.51	410.06	95.910	37.52	409.73	95.900
75%	Vnom	56.39	411.68	95.670	56.39	412.04	95.670	56.38	411.88	95.680	56.4	411.54	95.660	56.42	411.78	95.680
100%	Vnom	74.92	409.62	95.620	74.87	409.41	95.610	74.9	409.57	95.610	74.81	409.04	95.610	74.93	409.73	95.600
10%	Vmax	7.52	481.43	89.590	7.52	481.97	89.560	7.53	481.07	89.700	7.53	481.68	89.610	7.53	481.01	89.620
20%	Vmax	15.03	478.54	93.660	15.04	478.37	93.650	15.03	478.37	93.630	15.02	478.65	93.640	15.03	478.85	93.640
30%	Vmax	22.55	474.73	94.880	22.56	475.02	94.830	22.54	475.02	94.850	22.55	474.55	94.920	22.56	475.41	94.850
50%	Vmax	37.57	473.48	95.660	37.55	473.05	95.660	37.56	473.42	95.640	37.56	473.99	95.630	37.58	473.77	95.580
75%	Vmax	56.32	471.01	95.450	56.3	469.09	95.460	56.32	469.47	95.450	56.28	470.29	95.470	56.32	470.76	95.460
100%	Vmax	75.15	468.89	95.400	75.25	469.5	95.390	75.21	469.23	95.390	75.17	468.97	95.390	75.28	469.63	95.390

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	7.54	335.21	90.930												
20%	Vmin	15.06	333.57	94.360												
30%	Vmin	22.52	332.09	95.470												
50%	Vmin	37.6	332.66	96.140												
75%	Vmin	56.29	329.45	95.950												
100%	Vmin	75.09	325.86	95.930												
10%	Vnom	7.59	415.12	90.510												
20%	Vnom	15.11	415.48	94.000												
30%	Vnom	22.52	413.59	95.120												
50%	Vnom	37.55	409.88	95.880												
75%	Vnom	56.44	411.61	95.700												
100%	Vnom	74.95	409.78	95.610												
10%	Vmax	7.53	480.94	89.710												
20%	Vmax	15.02	477.98	93.640												
30%	Vmax	22.55	475.84	94.870												
50%	Vmax	37.59	474.22	95.570												
75%	Vmax	56.3	470.96	95.470												
100%	Vmax	75.27	469.58	95.390												