Manufacturer: SatCon Power Systems

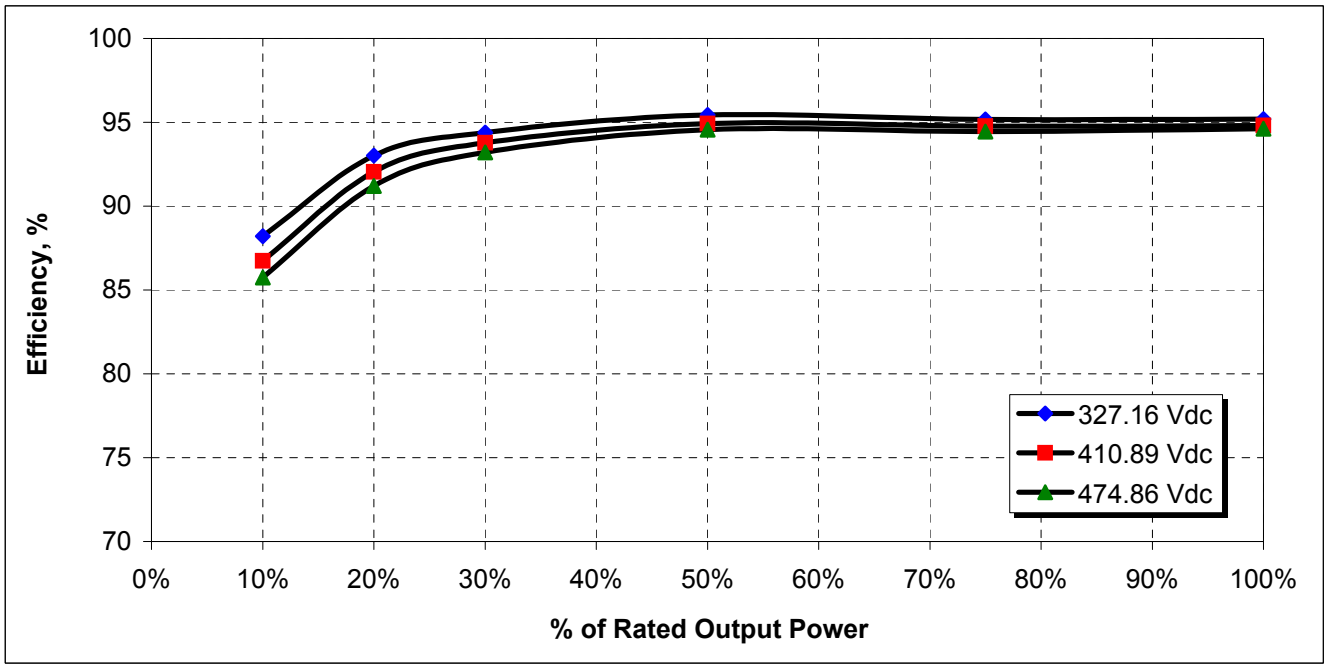
Model #: AE-50-60-PV-D

Rated Maximum Continuous Output Power: 50.00 kW Night Tare Loss: 90.00 W

Vmin: 327.16 Vdc Vnom: 410.89 Vdc Vmax: 474.86 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		5.00	10.00	15.00	25.00	37.50	50.00	Wtd
Vmin	327.16	88.2	93.0	94.4	95.4	95.2	95.2	94.7
Vnom	410.89	86.7	92.0	93.8	94.9	94.8	94.8	94.2
Vmax	474.86	85.8	91.2	93.2	94.6	94.5	94.6	93.8

CEC Efficiency = 94.5%



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	5.07	335.68	88.250	5.07	336.46	88.250	5.07	336.27	88.200	5.06	336.58	88.230	5.07	337.21	88.130
20%	Vmin	10.03	334.41	92.990	10.03	333.98	93.020	10.02	334.56	93.050	10.02	334.09	93.020	10.03	334.65	93.030
30%	Vmin	15.1	334.66	94.440	15.1	334.66	94.420	15.1	334.86	94.390	15.09	335.41	94.370	15.09	335.15	94.350
50%	Vmin	25.03	332.81	95.480	25.01	332.42	95.460	25.02	332.67	95.440	25	332.69	95.440	25.01	332.72	95.430
75%	Vmin	37.55	330	95.180	37.58	331.08	95.160	37.57	331.08	95.170	37.57	330.91	95.180	37.57	331.17	95.160
100%	Vmin	50.33	327.13	95.210	50.33	327.03	95.200	50.32	327.14	95.180	50.03	327.25	95.200	50.34	327.1	95.200
10%	Vnom	5.09	419.66	86.790	5.09	418.91	86.860	5.08	419.4	86.500	5.09	419.3	86.820	5.08	418.92	86.780
20%	Vnom	10.04	417.02	92.070	10.04	416.53	92.100	10.04	417.19	92.020	10.04	416.97	92.050	10.04	416.91	92.020
30%	Vnom	15	416.82	93.790	15.01	416.77	93.790	15	416.69	93.780	15.01	416.85	93.800	15	416.53	93.760
50%	Vnom	25.02	414.98	94.940	25.03	415.39	94.970	25.03	415.73	94.950	25.03	415.89	94.910	25.01	415.81	94.870
75%	Vnom	37.56	413.69	94.780	37.54	412.8	94.810	37.57	413.55	94.770	37.56	413.42	94.780	37.56	414.01	94.770
100%	Vnom	50.27	408.56	94.820	50.31	408.97	94.790	50.29	411.47	94.810	50.33	412.47	94.830	50.28	411.89	94.800
10%	Vmax	5.1	482.59	85.720	5.1	483.44	85.780	5.1	482.75	85.750	5.09	482.15	85.820	5.1	483.97	85.720
20%	Vmax	10.06	480	91.190	10.05	479.56	91.250	10.06	480.48	91.270	10.05	480.87	91.180	10.06	482.02	91.120
30%	Vmax	15.01	479.99	93.260	15.02	480.1	93.230	15.02	488.06	93.220	15.01	481.04	93.220	15.02	480.46	93.160
50%	Vmax	25.04	478.63	94.620	25.04	479.59	94.620	25.02	479.87	94.590	25.03	479.94	94.560	25.04	480.48	94.490
75%	Vmax	37.55	478.28	94.440	37.54	47.92	94.430	37.54	477.98	94.450	37.56	478.25	94.450	37.54	477.38	94.450
100%	Vmax	50.33	479.32	94.620	50.31	474.65	94.640	50.34	475.29	94.640	50.32	474.27	94.610	50.38	474.73	94.620

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	5.07	337.06	88.130												
20%	Vmin	10.02	334.19	93.020												
30%	Vmin	15.08	335	94.370												
50%	Vmin	25	332.34	95.400												
75%	Vmin	37.59	331.41	95.170												
100%	Vmin	50.38	327.31	95.190												
10%	Vnom	5.08	418.88	86.710												
20%	Vnom	10.05	416.76	91.980												
30%	Vnom	15	416.24	93.750												
50%	Vnom	25.02	415.47	94.900												
75%	Vnom	37.53	414.5	94.770												
100%	Vnom	50.3	411.97	94.800												
10%	Vmax	5.1	483.87	85.710												
20%	Vmax	10.05	481.91	91.150												
30%	Vmax	15.01	480.61	93.180												
50%	Vmax	25.04	479.39	94.450												
75%	Vmax	37.56	478.32	94.490												
100%	Vmax	50.29	470.89	94.590												