Manufacturer: SatCon Power Systems

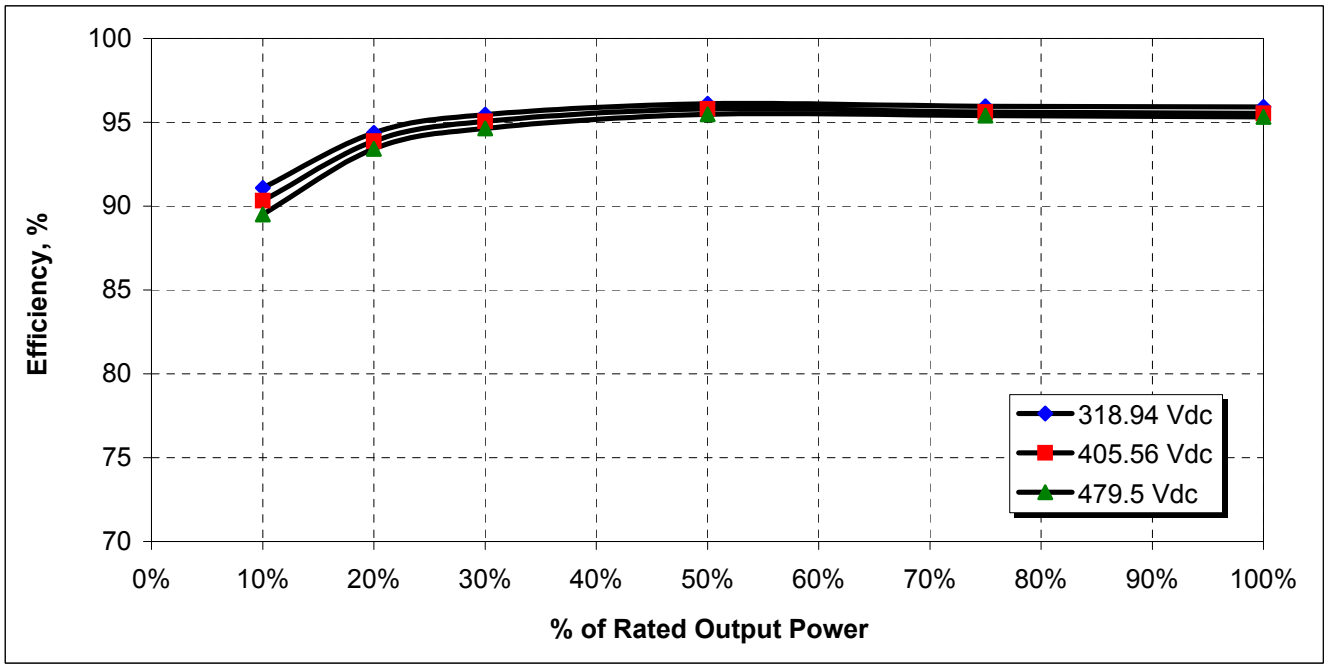
Model #: AE-75-60-PV-A

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

Vmin: 318.94 Vdc Vnom: 405.56 Vdc Vmax: 479.5 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	318.94	91.1	94.4	95.5	96.1	96.0	95.9	95.7
Vnom	405.56	90.3	93.9	95.1	95.8	95.6	95.5	95.3
Vmax	479.5	89.5	93.4	94.6	95.5	95.4	95.3	95.0

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	7.53	327.99	91.076	7.53	327.79	91.098	7.52	327.64	91.066	7.52	327.61	91.108	7.53	327.87	91.122
20%	Vmin	15.03	327.07	94.360	15.02	328.14	94.324	15.02	327.82	94.429	15.02	327.97	94.339	15.03	327.86	94.392
30%	Vmin	22.5	327.54	95.428	22.5	327.62	95.443	22.49	325.47	95.441	22.48	325.19	95.456	22.52	325.54	95.488
50%	Vmin	37.49	326.73	96.140	37.5	327.28	96.128	37.48	326.89	96.120	37.5	327.7	96.097	37.45	324.44	96.106
75%	Vmin	56.36	322.47	95.946	56.34	322.59	95.949	56.36	322.12	95.961	56.35	322.93	95.948	56.4	322.7	95.954
100%	Vmin	75.09	318.94	95.938	75.22	319.57	95.919	75.1	318.97	95.915	75.15	319.16	95.918	75.14	319.09	95.913
10%	Vnom	7.52	417.63	90.401	7.51	417.49	90.269	7.5	417.06	90.345	7.51	418.08	90.343	7.53	417.83	90.291
20%	Vnom	15.09	417.89	93.815	15.1	417.9	93.906	15.1	418.36	93.859	15.09	418.52	93.870	15.09	418.42	93.889
30%	Vnom	22.55	418.64	95.088	22.55	417.1	95.084	22.57	417.78	95.070	22.56	417.73	95.025	22.56	417.6	95.039
50%	Vnom	37.5	414.99	95.834	37.51	415.17	95.810	37.5	414.97	95.800	37.51	414.88	95.796	37.52	414.9	95.802
75%	Vnom	56.42	409.96	95.609	56.43	410.23	95.619	56.42	410.41	95.601	56.43	410.69	95.631	56.41	412.31	95.608
100%	Vnom	75.09	405.56	95.529	75.14	405.86	95.537	75.2	406.19	95.546	75.22	406.07	95.534	75.25	406.74	95.528
10%	Vmax	7.56	491.73	89.500	7.56	491.86	89.568	7.57	491.58	89.610	7.56	491.94	89.564	7.58	492.04	89.400
20%	Vmax	15.03	488.77	93.485	15.03	488.19	93.432	15.03	488.86	93.442	15.03	490.55	93.435	15.02	490.91	93.371
30%	Vmax	22.51	488.32	94.656	22.52	488.2	94.672	22.53	488.06	94.618	22.52	487.79	94.646	22.52	487.77	94.653
50%	Vmax	37.57	486.13	95.536	37.56	485.69	95.500	37.56	486.77	95.498	37.54	485.89	95.469	37.59	488.09	95.446
75%	Vmax	56.36	483.09	95.403	56.31	482.46	95.408	56.33	482.3	95.385	56.38	482.87	95.387	56.33	482.83	95.410
100%	Vmax	75.11	479.5	95.359	75.17	479.7	95.343	75.27	480.5	95.337	75.25	480.32	95.340	75.35	481.01	95.306

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	7.53	327.71	91.097												
20%	Vmin	15.03	327.92	94.392												
30%	Vmin	22.5	325.41	95.445												
50%	Vmin	37.47	324.4	96.078												
75%	Vmin	56.37	322.4	95.956												
100%	Vmin	75.21	319.41	95.905												
10%	Vnom	7.52	417.9	90.310												
20%	Vnom	15.1	418.44	93.870												
30%	Vnom	22.55	416.29	95.060												
50%	Vnom	37.5	414.66	95.767												
75%	Vnom	56.39	412.02	95.615												
100%	Vnom	75.35	407.49	95.535												
10%	Vmax	7.58	491.46	89.424												
20%	Vmax	15.02	490.86	93.380												
30%	Vmax	22.51	488.6	94.606												
50%	Vmax	37.54	487.94	95.428												
75%	Vmax	56.32	482.96	95.404												
100%	Vmax	75.21	480.09	95.303												