Manufacturer: SatCon Power Systems

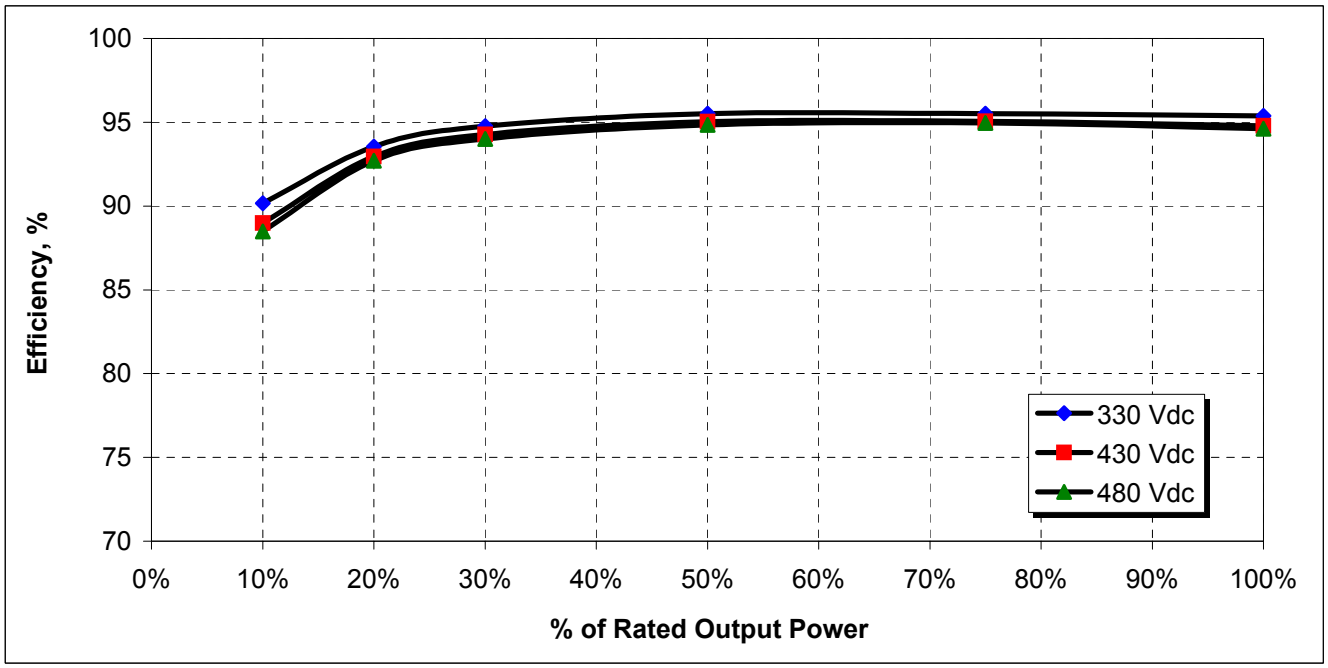
Model #: AE-225-60-PV-A

Rated Maximum Continuous Output Power: 225.00 kW Night Tare Loss: 114.00 W

Vmin: 330 Vdc Vnom: 430 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		22.50	45.00	67.50	112.50	168.75	225.00	Wtd
Vmin	330	90.2	93.5	94.8	95.5	95.5	95.4	95.1
Vnom	430	89.0	93.0	94.3	95.0	95.1	94.8	94.6
Vmax	480	88.5	92.7	94.0	94.8	95.0	94.6	94.4

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	22.65	378.89	90.130	22.64	378.7	90.170	22.62	378.49	90.120	22.64	377.94	90.160	22.64	377.51	90.200
20%	Vmin	44.71	379.89	93.540	44.7	379.72	93.570	44.66	379.77	93.560	44.69	381.39	93.530	44.72	381.54	93.530
30%	Vmin	67.8	375.14	94.780	67.82	375.57	94.780	67.81	375.68	94.770	67.78	374.98	94.770	67.81	375.33	94.780
50%	Vmin	112.98	365.86	95.500	112.93	365.54	95.490	112.97	365.05	95.500	112.91	365.45	95.500	113.01	366.03	95.600
75%	Vmin	169.23	354.08	95.520	169.32	353.61	95.490	169.23	354.23	95.580	169.21	354.36	95.500	169.23	354.03	95.550
100%	Vmin	225.68	337.72	95.420	225.53	337.42	95.400	225.37	337	95.390	225.69	336.44	95.370	225.72	337.34	95.360
10%	Vnom	22.68	465.39	88.980	22.69	466.25	88.990	22.66	466.11	89.010	22.66	465.97	88.950	22.66	464.8	88.990
20%	Vnom	44.69	460.62	92.960	44.7	460.72	92.970	44.69	460.59	92.960	44.7	460.8	92.950	44.69	461.26	92.960
30%	Vnom	67.83	457.26	94.230	67.87	457.56	94.300	67.81	455.82	94.250	67.83	455.71	94.270	67.81	455.57	94.280
50%	Vnom	112.88	448.73	95.020	112.92	448.21	95.030	112.88	448.38	95.030	112.9	448.64	95.030	112.93	448.27	95.030
75%	Vnom	168.99	438.85	95.010	169	437.92	95.060	169.13	437.98	95.080	169.08	438.84	95.020	169.05	438.49	95.070
100%	Vnom	225.06	428.69	94.790	225.16	428.69	94.800	225.15	429.38	94.790	225.09	428.84	94.810	225.24	429.02	94.770
10%	Vmax	22.69	508.4	88.470	22.71	508.54	88.490	22.69	508.45	88.490	22.69	508.08	88.490	22.68	508.3	88.500
20%	Vmax	44.76	496.98	92.700	44.75	496.93	92.710	44.75	497.19	92.700	44.74	496.33	92.710	44.76	496.3	92.710
30%	Vmax	67.85	505.88	94.010	67.81	505.23	94.000	67.84	505.41	94.010	67.85	505.33	94.010	67.84	505.37	94.030
50%	Vmax	112.26	502.81	94.860	112.88	502.19	94.840	112.69	501.71	94.840	112.98	501.08	94.840	113.04	501.03	94.840
75%	Vmax	169.32	486.55	94.930	169.24	486.82	94.970	169.28	488.08	94.960	169.26	487.41	94.940	169.33	488.1	94.960
100%	Vmax	225.45	478.69	94.640	225.48	479.11	94.640	225.5	478.51	94.600	225.52	478.99	94.610	225.49	478.47	94.570

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	22.63	377.32	90.190												
20%	Vmin	44.69	381.61	93.520												
30%	Vmin	67.79	375.38	94.780												
50%	Vmin	112.96	365.72	95.510												
75%	Vmin	169.3	354.28	95.490												
100%	Vmin	225.64	337.75	95.370												
10%	Vnom	22.66	466.83	88.940												
20%	Vnom	44.67	461.2	92.970												
30%	Vnom	67.82	455.71	94.260												
50%	Vnom	112.88	448.32	95.030												
75%	Vnom	169.08	438.55	95.070												
100%	Vnom	225.01	428.55	94.800												
10%	Vmax	22.71	508.35	88.490												
20%	Vmax	44.77	496.81	92.720												
30%	Vmax	67.82	505.86	94.020												
50%	Vmax	113.02	501.88	94.840												
75%	Vmax	169.26	487.42	94.960												
100%	Vmax	225.44	478.61	94.660												