Manufacturer: SATCON POWER SYSTEMS

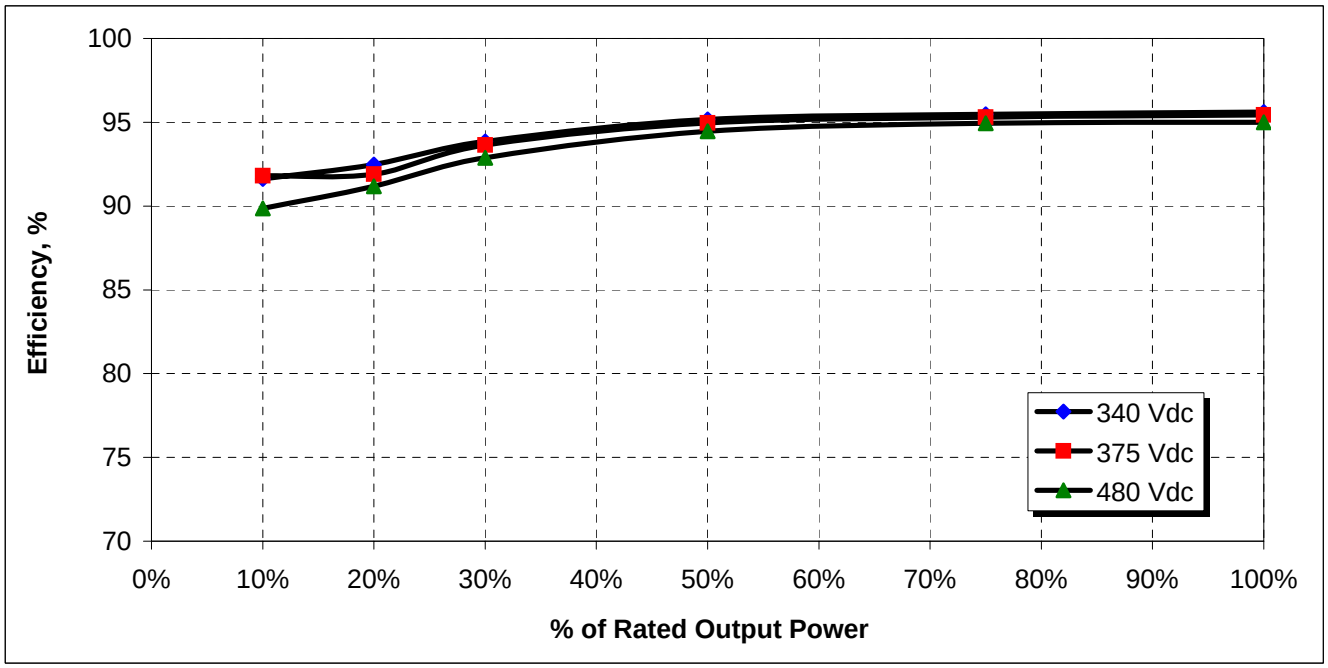
Model #: AE-30-60-PV-F

Rated Maximum Continuous Output Power: 30.00 kW Night Tare Loss: 59.00 W

Vmin: 340 Vdc Vnom: 375 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		3.00	6.00	9.00	15.00	22.50	30.00	Wtd
Vmin	340	91.6	92.5	93.9	95.2	95.5	95.6	94.9
Vnom	375	91.8	91.9	93.6	95.0	95.3	95.4	94.7
Vmax	480	89.9	91.2	92.9	94.5	94.9	95.0	94.2

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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	3093.14	341.430	90.75	3124.57	341.213	91.54	3126.69	341.443	91.66	3146.36	341.207	92.29	3132.63	341.500	91.60
20%	Vmin	5948.52	341.067	92.75	6010.54	340.867	92.23	6001.49	341.500	92.42	6015.71	340.967	92.50	5922.53	340.933	92.30
30%	Vmin	9010.89	341.467	94.03	8974.55	341.200	93.84	8934.13	341.067	93.55	8613.48	340.400	93.99	8972.41	341.367	93.85
50%	Vmin	15061.79	340.633	95.23	15064.12	341.367	95.16	15059.37	341.133	95.17	15019.15	341.000	95.16	15051.97	341.367	95.15
75%	Vmin	22956.95	340.900	95.53	23005.43	340.600	95.42	23074.67	340.667	95.48	23100.88	341.400	95.50	23071.47	340.600	95.47
100%	Vmin	30058.17	339.380	95.59	30153.45	339.043	95.64	30045.72	339.247	95.61	30107.61	339.380	95.61	30190.05	339.243	95.57
10%	Vnom	3151.08	376.063	91.80	3196.97	376.050	92.80	3132.66	376.240	91.16	3180.05	376.027	91.98	3140.79	379.313	91.07
20%	Vnom	6012.92	375.733	92.13	5997.35	376.233	91.94	5954.15	376.233	91.74	5965.59	375.633	91.92	6006.57	376.100	91.89
30%	Vnom	8990.81	376.300	93.62	9049.79	376.133	93.78	9008.74	376.000	93.58	9009.52	375.633	93.56	9008.22	375.700	93.64
50%	Vnom	15086.10	375.900	94.90	15086.02	375.767	94.98	15089.60	376.033	95.00	15066.22	375.400	94.96	15097.10	375.667	94.97
75%	Vnom	22972.53	375.567	95.30	23068.22	376.400	95.24	23040.28	375.700	95.30	23097.91	375.300	95.30	23018.20	375.333	95.30
100%	Vnom	30099.08	374.750	95.42	30075.01	373.917	95.42	30118.77	373.853	95.45	30094.88	374.007	95.44	30104.60	374.107	95.43
10%	Vmax	3168.66	478.150	89.84	3151.47	478.630	89.26	3182.51	478.487	90.07	3162.52	478.203	89.72	3182.06	478.450	89.97
20%	Vmax	6063.86	480.767	91.28	6057.25	480.367	91.41	6037.01	480.167	91.01	6062.56	480.367	91.17	6027.10	480.467	91.09
30%	Vmax	9034.88	480.533	92.82	9046.95	479.967	92.92	9033.24	479.800	92.87	9040.33	480.100	92.85	9019.78	480.000	92.86
50%	Vmax	15086.61	477.767	94.51	15103.17	477.867	94.53	15078.33	478.267	94.46	15073.49	478.000	94.52	15061.26	478.033	94.43
75%	Vmax	23181.46	477.467	94.98	23119.10	478.200	94.96	23124.42	478.100	94.91	23102.46	477.600	94.93	23133.64	477.667	94.93
100%	Vmax	30084.20	477.060	94.98	30113.23	476.693	94.99	30097.10	477.110	94.98	30110.17	476.610	95.01	30166.61	476.350	95.00

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	3136.70	341.163	91.82												
20%	Vmin	5807.24	341.167	92.62												
30%	Vmin	8981.72	341.000	93.85												
50%	Vmin	15058.43	340.900	95.13												
75%	Vmin	23089.22	340.867	95.45												
100%	Vmin	30113.94	339.240	95.62												
10%	Vnom	3174.96	376.250	92.08												
20%	Vnom	5997.24	376.233	91.84												
30%	Vnom	9014.85	376.067	93.68												
50%	Vnom	15085.44	375.700	94.98												
75%	Vnom	23122.15	375.967	95.32												
100%	Vnom	30110.06	374.827	95.45												
10%	Vmax	3187.16	478.610	90.33												
20%	Vmax	6062.57	480.333	91.17												
30%	Vmax	9042.25	480.433	92.93												
50%	Vmax	15088.68	478.167	94.30												
75%	Vmax	23117.67	478.100	94.90												
100%	Vmax	30120.34	476.590	94.98												