Manufacturer: SatCon Power Systems

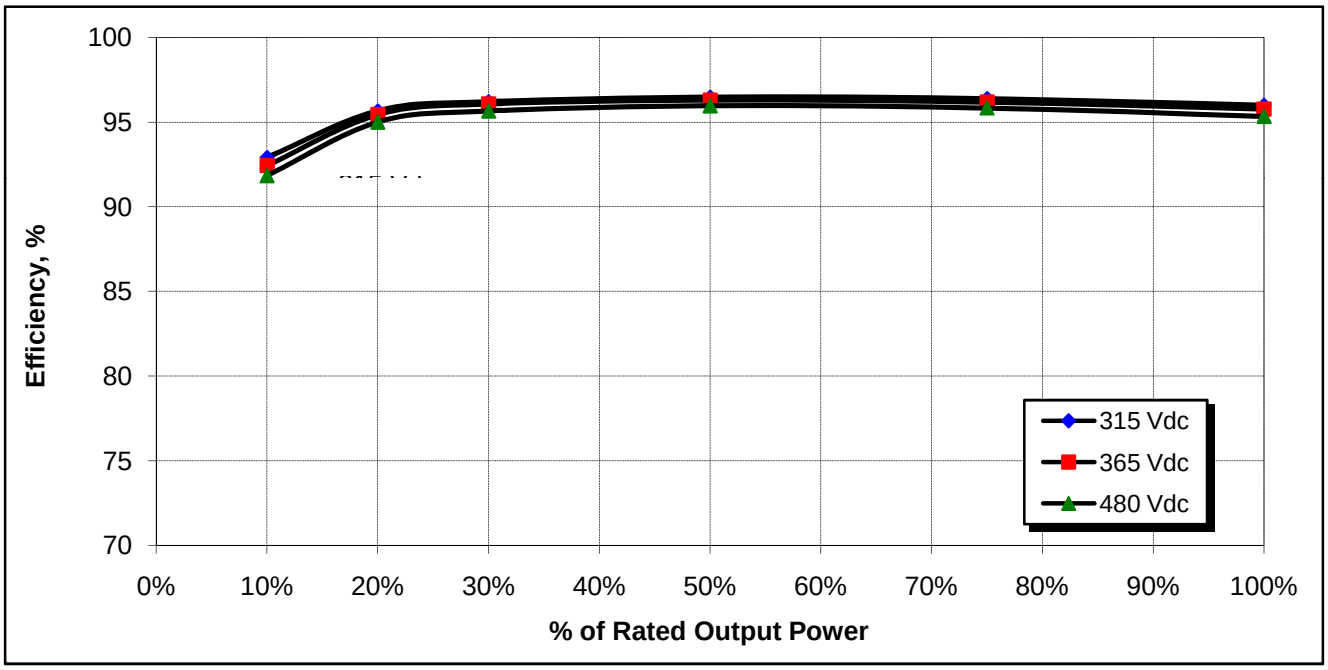
Model #: PVS-500 (480 V)

Rated Maximum Continuous Output Power: 500.00 kW Night Tare Loss: -131.08 W

Vmin: 315 Vdc Vnom: 365 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	315	92.9	95.7	96.2	96.5	96.4	96.0	96.2
Vnom	365	92.4	95.4	96.1	96.3	96.2	95.8	96.0
Vmax	480	91.8	95.0	95.7	96.0	95.8	95.3	95.6

CEC Efficiency = 96.0%



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	45614	317.12	93.009	45513	317.146	92.884	45495	317.126	92.914	45499	317.14	92.853	45462	317.13	92.875
20%	Vmin	106179	316.95	95.686	105572	317.02	95.655	105115	316.973	95.658	105817	316.93	95.680	105173	316.98	95.685
30%	Vmin	155532	317.84	96.214	155427	317.814	96.208	155487	317.823	96.195	154995	317.89	96.216	155043	317.87	96.231
50%	Vmin	270395	317.53	96.486	270980	317.539	96.480	270362	317.49	96.471	269882	317.55	96.478	270223	317.51	96.487
75%	Vmin	354795	317.24	96.386	354767	317.221	96.391	355204	317.198	96.405	355088	317.23	96.393	354743	317.22	96.396
100%	Vmin	479340	317.79	96.006	479582	317.91	95.997	479262	317.857	96.003	479435	317.78	96.008	478728	317.84	95.986
10%	Vnom	45680	364.66	92.527	45679	364.595	92.469	45663	364.561	92.311	45614	364.58	92.391	45679	364.61	92.315
20%	Vnom	106202	364.44	95.478	105596	364.476	95.366	105719	364.466	95.433	105252	364.55	95.490	105243	364.45	95.419
30%	Vnom	155540	364.33	96.051	155806	364.308	96.077	155902	364.302	96.106	155255	364.36	96.075	155553	364.32	96.092
50%	Vnom	270376	365.01	96.319	270231	365.032	96.326	269986	365.077	96.328	269791	365.06	96.288	270027	365.08	96.302
75%	Vnom	355483	364.88	96.193	355203	364.863	96.193	355542	364.793	96.184	355028	364.87	96.204	355012	364.82	96.205
100%	Vnom	479321	364.49	95.763	60	364.519	95.779	479765	364.52	95.787	479331	364.49	95.761	479450	364.5	95.772
10%	Vmax	46091	475.51	92.121	46145	475.528	92.022	46122	475.502	91.964	46097	475.54	91.871	46074	475.51	91.700
20%	Vmax	106331	475.42	94.980	106366	475.379	94.951	106456	475.397	95.011	106546	475.43	94.917	106257	475.35	94.964
30%	Vmax	156545	475.35	95.618	156572	475.371	95.684	156250	475.302	95.615	156580	475.36	95.630	156561	475.28	95.666
50%	Vmax	271482	476.04	95.964	271682	476.16	96.009	271226	476.06	95.965	271045	476.16	95.934	271024	476.15	95.955
75%	Vmax	355864	476.11	95.840	355836	476.027	95.831	355868	476.236	95.830	356040	475.99	95.820	355386	476.31	95.841
100%	Vmax	479770	475.77	95.335	479441	475.796	95.358	479578	475.781	95.337	479136	475.87	95.339	479401	475.78	95.333

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	45456	317.12	93.004	45505	317.135	92.900									
20%	Vmin	105401	316.98	95.672	104987	316.99	95.674									
30%	Vmin	155108	317.83	96.204	155409	317.842	96.214									
50%	Vmin	270577	317.47	96.469	270216	317.495	96.487									
75%	Vmin	354891	317.17	96.387	354818	317.231	96.397									
100%	Vmin	479220	317.83	95.995	479331	317.809	95.998									
10%	Vnom	45652	364.62	92.508	45636	364.628	92.515									
20%	Vnom	105724	364.53	95.498	105151	364.475	95.437									
30%	Vnom	155471	364.35	96.080	155672	364.315	96.068									
50%	Vnom	270281	365.04	96.268	270383	365.047	96.293									
75%	Vnom	354810	364.82	96.168	355188	364.85	96.172									
100%	Vnom	479499	364.6	95.770	60	364.551	95.771									
10%	Vmax	46052	475.51	91.502	46068	475.539	91.674									
20%	Vmax	106178	475.44	95.086	106391	475.418	95.093									
30%	Vmax	156334	475.25	95.645	156178	475.235	95.721									
50%	Vmax	271221	476.2	95.956	270897	476.141	95.943									
75%	Vmax	355628	476.05	95.834	356076	475.91	95.833									
100%	Vmax	479596	475.8	95.339	479707	475.758	95.331									