Manufacturer: Satcon Power Systems

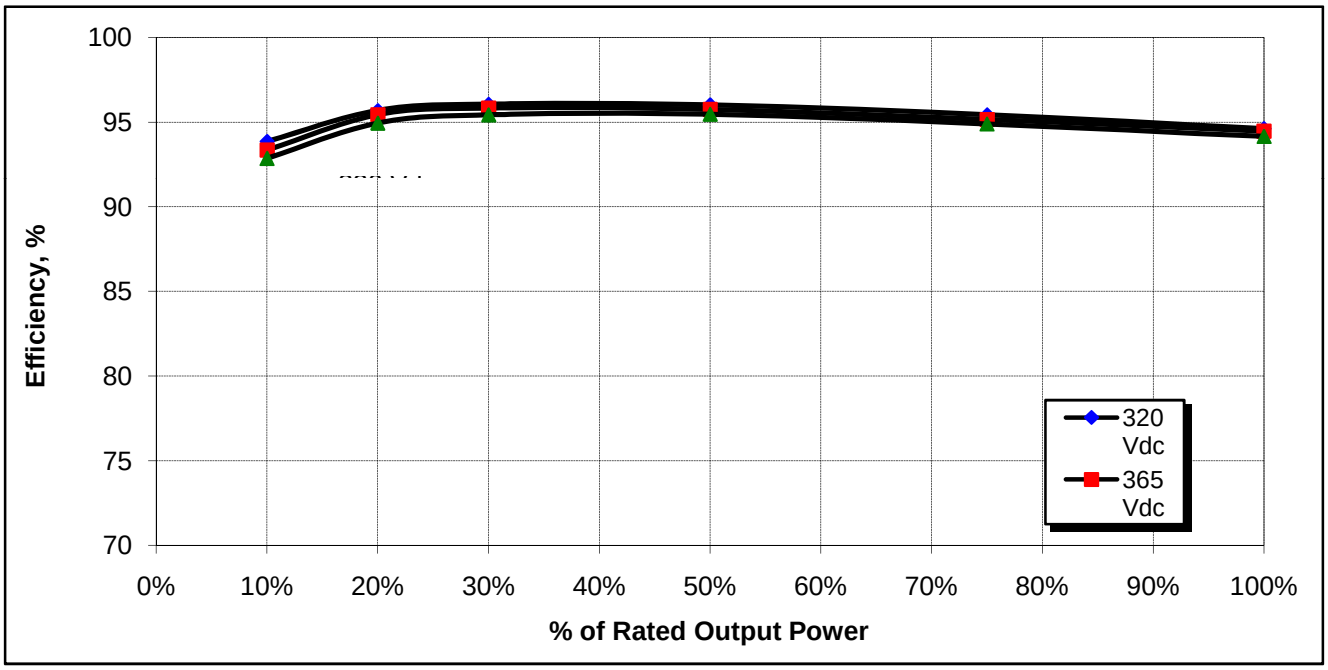
Model #: PVS-500-MVT

Rated Maximum Continuous Output Power: 500 kW Night Tare Loss: 129.5 W

Vmin: 320 Vdc Vnom: 365 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50	100	150	250	375	500	Wtd
Vmin	320	93.9	95.7	96.1	96.0	95.4	94.6	95.5
Vnom	365	93.3	95.4	95.8	95.8	95.2	94.5	95.3
Vmax	480	92.9	94.9	95.4	95.5	94.9	94.2	95.0

CEC Efficiency = 95.5%



Manufacturer: Satcon Power Systems

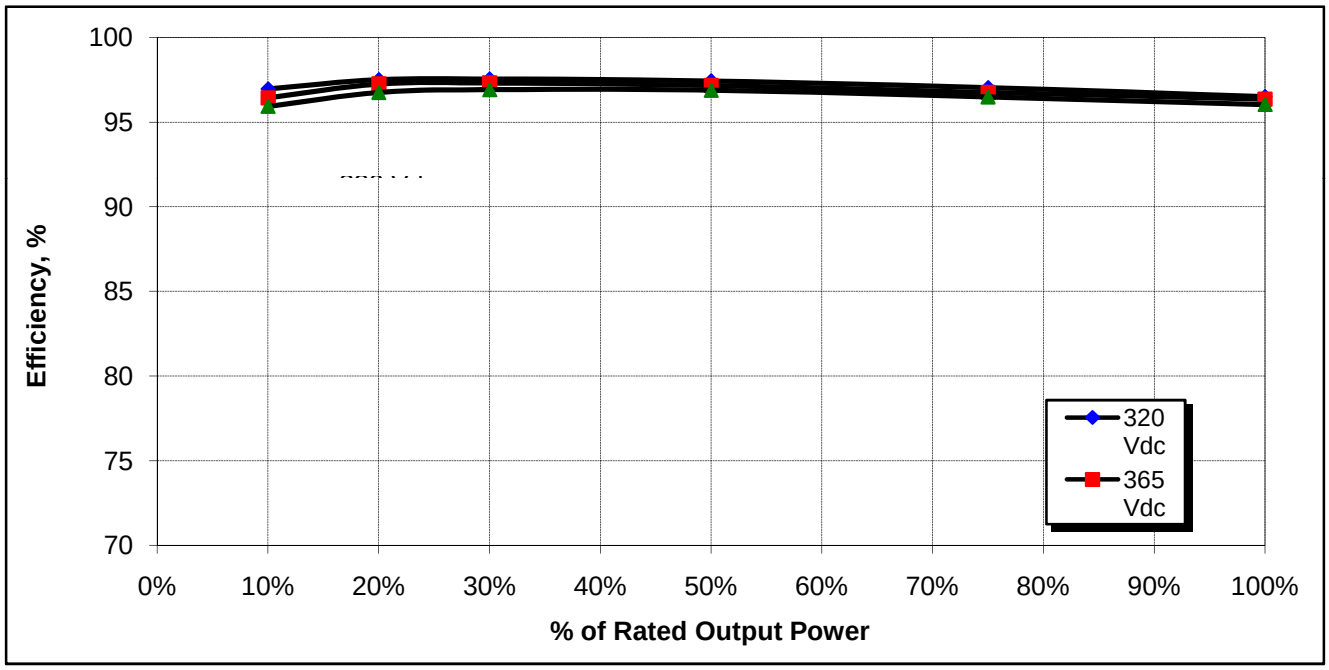
Model #: PVS-500-XFMRless (200Vac)

Rated Maximum Continuous Output Power: 500 kW Night Tare Loss: 129.5 W

Vmin: 320 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	320	97.0	97.5	97.5	97.4	97.0	96.5	97.2
Vnom	365	96.4	97.3	97.3	97.2	96.8	96.4	96.9
Vmax	480	95.9	96.7	96.9	96.9	96.5	96.0	96.6

Inverter Efficiency w/o Transformer= 97.0%



Transformer Efficiency

	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	96.8	98.14	98.48	98.55	98.35	98.04	98.3
Vnom	96.8	98.14	98.48	98.55	98.35	98.04	98.3
Vmax	96.8	98.14	98.48	98.55	98.35	98.04	98.3

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	45308	317.16	96.941	45318.9	317.2	96.938	45279.8	317.24	97.000	45321.733	317.22	97.081	45297.1	317.19	97.022
20%	Vmin	105057	316.96	97.541	105052.3	316.97	97.488	105116.3	316.96	97.509	105086	316.95	97.488	105073	316.97	97.504
30%	Vmin	159662	316.77	97.547	159669.3	316.75	97.581	159661.7	316.76	97.551	159711.67	316.73	97.528	159638	316.76	97.543
50%	Vmin	269029	317.46	97.450	269018.7	317.45	97.456	268894.7	317.4	97.442	268940	317.46	97.434	268846	317.51	97.421
75%	Vmin	353774	317.17	97.116	353872.3	317.16	97.093	353829.7	317.15	97.039	353751.67	317.2	97.003	353768	317.15	97.007
100%	Vmin	477656	316.73	96.506	477778.7	316.71	96.506	477773.7	316.69	96.502	477884.67	316.7	96.514	477744	316.82	96.517
10%	Vnom	45402	365.61	96.429	45428.43	365.61	96.325	45424.3	365.62	96.397	45405.033	365.65	96.472	45395.2	365.69	96.533
20%	Vnom	105123	365.46	97.203	105124.3	365.5	97.280	105142.3	365.54	97.249	105142	365.47	97.237	105125	365.49	97.273
30%	Vnom	159648	365.31	97.296	159605.3	365.34	97.281	159593.3	365.34	97.316	159613.67	365.34	97.337	159599	365.3	97.341
50%	Vnom	268649	365.06	97.146	268912	365.16	97.160	268789.3	364.99	97.168	268774.33	365.05	97.190	268640	365.2	97.194
75%	Vnom	353158	365.77	96.743	353042.3	365.75	96.759	353129.3	365.86	96.749	353176.67	365.77	96.745	353149	365.84	96.754
100%	Vnom	477345	365.45	96.322	477388.3	365.46	96.345	477359	365.4	96.379	477288.67	365.37	96.375	477311	365.42	96.363
10%	Vmax	45744	475.64	95.826	45764.73	475.71	95.952	45763.4	475.64	95.986	45773.467	475.62	96.026	45757.5	475.63	95.895
20%	Vmax	105501	475.52	96.712	105497.7	475.51	96.716	105485.7	475.54	96.769	105467.33	475.5	96.721	105462	475.5	96.759
30%	Vmax	160138	475.36	96.906	160112.7	475.35	96.879	160048	475.36	96.897	160117.33	475.41	96.947	160145	475.38	96.962
50%	Vmax	269452	476.31	96.858	269500.7	476.18	96.904	269468	476.18	96.892	269532.67	476.25	96.856	269513	476.22	96.860
75%	Vmax	353982	475.95	96.482	353936.7	476.08	96.509	353889	476.08	96.489	353865.33	476.19	96.478	353975	476.06	96.487
100%	Vmax	477813	475.8	96.067	477708.3	475.73	96.051	477883	475.87	96.025	477881.67	475.77	96.022	477878	475.85	96.032

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	45277	317.16	96.980	45288.07	317.1	96.799									
20%	Vmin	105065	316.97	97.524	105052.3	316.96	97.477									
30%	Vmin	159647	316.81	97.513	159670.3	316.82	97.552									
50%	Vmin	268850	317.41	97.414	268886.3	317.38	97.435									
75%	Vmin	353701	317.14	97.018	353597.3	317.22	97.013									
100%	Vmin	477903	316.83	96.520	477413.7	316.69	96.521									
10%	Vnom	45418	365.6	96.410	45391.07	365.68	96.453									
20%	Vnom	105144	365.5	97.281	105128.3	365.5	97.268									
30%	Vnom	159623	365.26	97.312	159615.7	365.31	97.340									
50%	Vnom	268844	365.15	97.171	268738.7	365.02	97.170									
75%	Vnom	353227	365.77	96.783	353192.7	365.74	96.760									
100%	Vnom	477408	365.4	96.355	477301.3	365.43	96.352									
10%	Vmax	45781	475.59	95.945	45782.03	475.69	95.861									
20%	Vmax	105469	475.51	96.781	105450	475.48	96.773									
30%	Vmax	160081	475.41	96.897	160129.3	475.37	96.883									
50%	Vmax	269469	476.22	96.889	269524.3	476.24	96.911									
75%	Vmax	353816	476.09	96.491	353977	476.03	96.486									
100%	Vmax	477891	475.77	96.030	477884.7	475.84	96.037									