Manufacturer: SatCon Power Systems

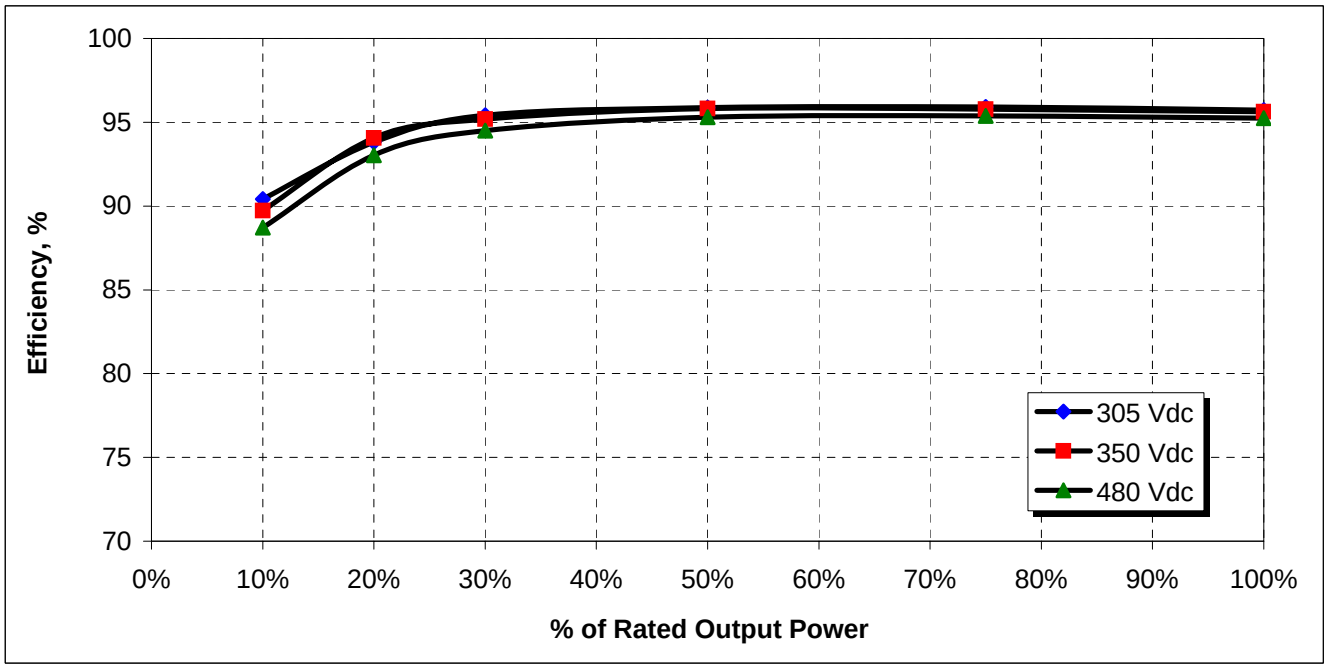
Model #: PVS-50 (208V)

Rated Maximum Continuous Output Power: 50.00 kW Night Tare Loss: 76.50 W

Vmin: 305 Vdc Vnom: 350 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		5.00	10.00	15.00	25.00	37.50	50.00	Wtd
Vmin	305	90.4	93.8	95.4	95.9	95.9	95.7	95.5
Vnom	350	89.7	94.1	95.2	95.8	95.8	95.6	95.4
Vmax	480	88.7	93.0	94.5	95.3	95.4	95.3	94.9

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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	4899.73	314.45	90.183	4901.8	311.83	90.390	4900.7	312.77	90.362	4894.7	314.92	90.578	4901.4	313.12	90.430
20%	Vmin	9958.32	314.2	94.133	9958.2	314.23	94.005	9960	311.67	94.005	9960	312.84	94.175	9949.7	314.79	94.090
30%	Vmin	15914.2	311.43	95.456	15907	313.79	95.420	15907	313.87	95.367	15895	311.39	95.414	15905	313.62	95.452
50%	Vmin	27023.6	313.14	95.994	27030	312.86	95.981	26836	315.33	95.390	26902	312.67	95.688	26995	313.66	95.991
75%	Vmin	37669.9	314.78	96.005	37683	312.18	96.039	37656	314.72	96.014	37684	313.25	96.033	37650	313.07	96.033
100%	Vmin	48347.3	314.63	95.804	48245	315.72	95.621	48151	314.92	95.411	48351	315.36	95.859	48367	315.31	95.844
10%	Vnom	4906.46	351.2	89.859	4916.3	352.96	89.895	4908.6	356.01	89.626	4907.6	352.69	89.858	4903.4	351.15	89.670
20%	Vnom	9926.61	355.8	94.227	9911.2	352.48	94.089	9910.6	351.21	94.122	9912.9	355.31	94.096	9912.2	354.03	93.861
30%	Vnom	15906.6	351.6	95.073	15900	350.27	95.202	15896	354.47	95.092	15909	351.36	95.244	15915	350.66	95.204
50%	Vnom	27033.1	350.7	95.945	27001	354.96	95.926	26967	352.42	95.965	27000	351.66	95.962	26881	355.2	95.623
75%	Vnom	37878.3	351.34	95.943	37898	352.11	95.897	37899	354.16	95.859	37880	350.76	95.881	37817	354.86	95.678
100%	Vnom	48480.8	352.61	95.741	48556	353.27	95.725	48550	351.09	95.715	48306	354.18	95.265	48405	351.48	95.490
10%	Vmax	4962.93	470.01	88.724	4966.3	473.91	88.840	4954.7	479.23	88.951	4963.9	472.91	88.551	4967.2	470.53	88.996
20%	Vmax	9973.63	478.99	92.945	10002	473.13	92.936	10005	470.34	93.118	9997.1	478.18	92.984	9979.7	475.51	93.028
30%	Vmax	15963.9	477.87	94.571	15829	471.09	93.806	15905	473.57	94.312	15956	478.27	94.866	15967	470.14	94.762
50%	Vmax	25086.5	473.17	95.348	25117	471.53	95.353	26846	478.25	95.387	26253	470.23	94.720	27038	475.61	95.301
75%	Vmax	37827	476.95	95.442	37779	469.16	95.209	37632	476.04	94.974	37844	471.04	95.528	37814	473.45	95.496
100%	Vmax	48284.6	470.03	95.393	48279	475.19	95.326	48161	472.38	95.097	48001	470.71	94.922	48122	475.55	95.277

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	4902.96	311.66	90.536	4900.3	314.18	90.439									
20%	Vmin	9939.74	312.49	94.087	9741.4	311.73	92.208									
30%	Vmin	15890.4	313.96	95.366	15888	311.31	95.435									
50%	Vmin	26977.5	315.06	96.009	26933	312.31	96.039									
75%	Vmin	37423.4	314.79	95.401	37577	312.08	95.909									
100%	Vmin	48357	314.89	95.829	48287	315.87	95.649									
10%	Vnom	4903.07	355.17	89.572	4911.1	354.88	89.614									
20%	Vnom	9906.37	350.76	94.024	9910.1	354.07	93.984									
30%	Vnom	15898.8	354.56	95.200	15912	351.12	95.315									
50%	Vnom	26796.3	351.1	95.319	26982	353.05	96.052									
75%	Vnom	37682	351.21	95.324	37864	353.58	95.836									
100%	Vnom	48549	353.06	95.735	48587	352.92	95.740									
10%	Vmax	4960.27	478.14	88.695	4965.3	476.68	88.286									
20%	Vmax	9975.29	469.58	93.026	9956.6	476.44	93.119									
30%	Vmax	15958	475	94.611	15957	477.34	94.565									
50%	Vmax	27084.8	475.36	95.537	27079	470.16	95.526									
75%	Vmax	37800.1	473.85	95.483	37832	470.57	95.503									
100%	Vmax	48257.4	471.02	95.432	48224	472.57	95.321									