Manufacturer: SatCon Power Systems

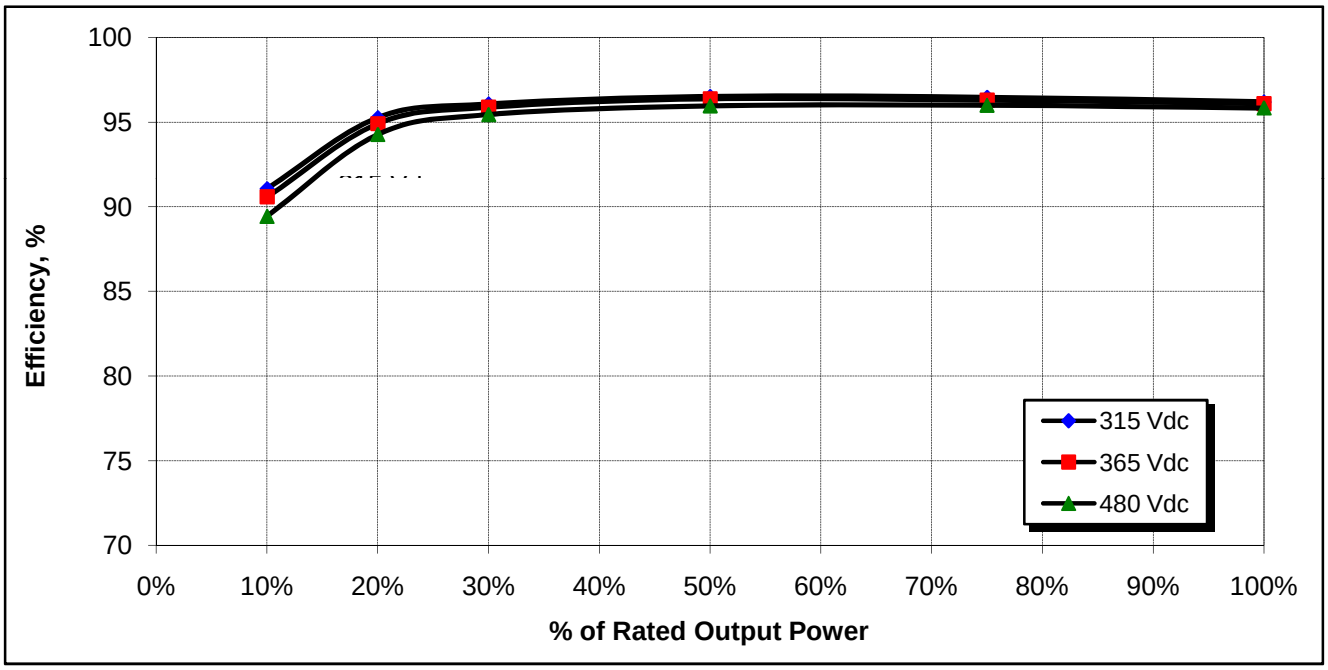
Model #: PVS-100 (240 V)

Rated Maximum Continuous Output Power: 100.00 kW Night Tare Loss: -61.57 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		10.00	20.00	30.00	50.00	75.00	100.00	Wtd
Vmin	315	91.1	95.3	96.1	96.5	96.5	96.2	96.1
Vnom	365	90.6	94.9	95.9	96.4	96.3	96.1	96.0
Vmax	480	89.4	94.3	95.4	96.0	96.0	95.8	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	9091.3	317.34	91.105	9106	317.37	91.031	9106	317.36	91.084	9106	317.34	91.153	9101	317.35	90.861
20%	Vmin	21317	317.29	95.291	21330	317.25	95.299	21330	317.26	95.247	21320	317.22	95.206	21328	317.15	95.262
30%	Vmin	31476	317.18	96.097	31498	317.19	96.091	31491	317.17	96.065	31507	317.19	96.083	31518	317.2	96.058
50%	Vmin	53904	316.94	96.525	53903	316.93	96.531	53909	317.08	96.493	53900	316.87	96.476	53916	317.1	96.514
75%	Vmin	71206	317.92	96.479	71211	317.95	96.471	71181	317.92	96.404	71192	317.95	96.457	71192	317.92	96.490
100%	Vmin	96649	318.72	96.211	96622	318.77	96.163	96643	318.77	96.186	96181	318.74	96.198	96598	318.73	96.207
10%	Vnom	9120.7	365.81	90.678	9119	365.8	90.579	9133	365.8	90.451	9141	365.8	90.633	9130	365.8	90.484
20%	Vnom	21310	365.72	94.994	21302	365.76	94.917	21320	365.71	94.946	21295	365.72	94.819	21303	365.7	94.792
30%	Vnom	31491	365.65	95.912	31506	365.63	95.855	31537	365.63	95.915	31515	365.66	95.858	31511	365.65	95.825
50%	Vnom	53932	365.52	96.375	53917	365.49	96.361	53920	365.55	96.434	53929	365.54	96.360	53916	365.52	96.355
75%	Vnom	71170	365.45	96.240	71206	365.45	96.300	71231	365.49	96.340	71249	365.44	96.291	71224	365.48	96.326
100%	Vnom	96685	365.16	96.116	60	365.31	96.122	96688	365.26	96.075	96674	365.2	96.124	96649	365.3	96.066
10%	Vmax	9153.1	475.74	89.569	9141	475.76	89.509	9149	475.76	89.344	9162	475.72	89.399	9157	475.71	89.430
20%	Vmax	21361	475.7	94.199	21410	475.7	94.321	21366	475.7	94.289	21380	475.73	94.321	21385	475.67	94.198
30%	Vmax	31542	475.59	95.555	31532	475.59	95.485	31546	475.56	95.434	31537	475.61	95.343	31524	475.59	95.371
50%	Vmax	53954	475.49	95.951	53973	475.49	95.946	53965	475.5	95.977	53928	475.57	95.930	53968	475.48	95.987
75%	Vmax	71291	475.44	96.026	71286	475.5	95.966	71262	475.49	95.951	71271	475.37	95.951	71288	475.38	96.023
100%	Vmax	96759	475.29	95.886	96756	475.24	95.832	96755	475.27	95.865	96750	475.26	95.815	96697	475.24	95.773

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	9106.6	317.34	91.030	9097	317.36	91.185									
20%	Vmin	21364	317.26	95.239	21340	317.25	95.271									
30%	Vmin	31508	317.18	95.986	31526	317.19	96.124									
50%	Vmin	53910	316.95	96.524	53903	316.9	96.520									
75%	Vmin	71198	317.93	96.481	71192	317.93	96.489									
100%	Vmin	96640	318.76	96.177	96597	318.76	96.206									
10%	Vnom	9135.6	365.8	90.603	9139	365.79	90.642									
20%	Vnom	21303	365.69	94.894	21316	365.75	95.009									
30%	Vnom	31514	365.65	95.894	31516	365.68	95.924									
50%	Vnom	53919	365.51	96.379	53918	365.55	96.431									
75%	Vnom	71207	365.43	96.286	71223	365.47	96.337									
100%	Vnom	96688	365.25	96.072	60	365.33	96.116									
10%	Vmax	9154.2	475.72	89.508	9163	475.73	89.301									
20%	Vmax	21395	475.7	94.249	21404	475.71	94.278									
30%	Vmax	31544	475.59	95.443	31545	475.63	95.486									
50%	Vmax	53975	475.54	95.960	53966	475.47	95.963									
75%	Vmax	71270	475.38	96.059	71269	475.47	96.007									
100%	Vmax	96781	475.29	95.831	96765	475.24	95.817									