Manufacturer: SatCon Power Systems

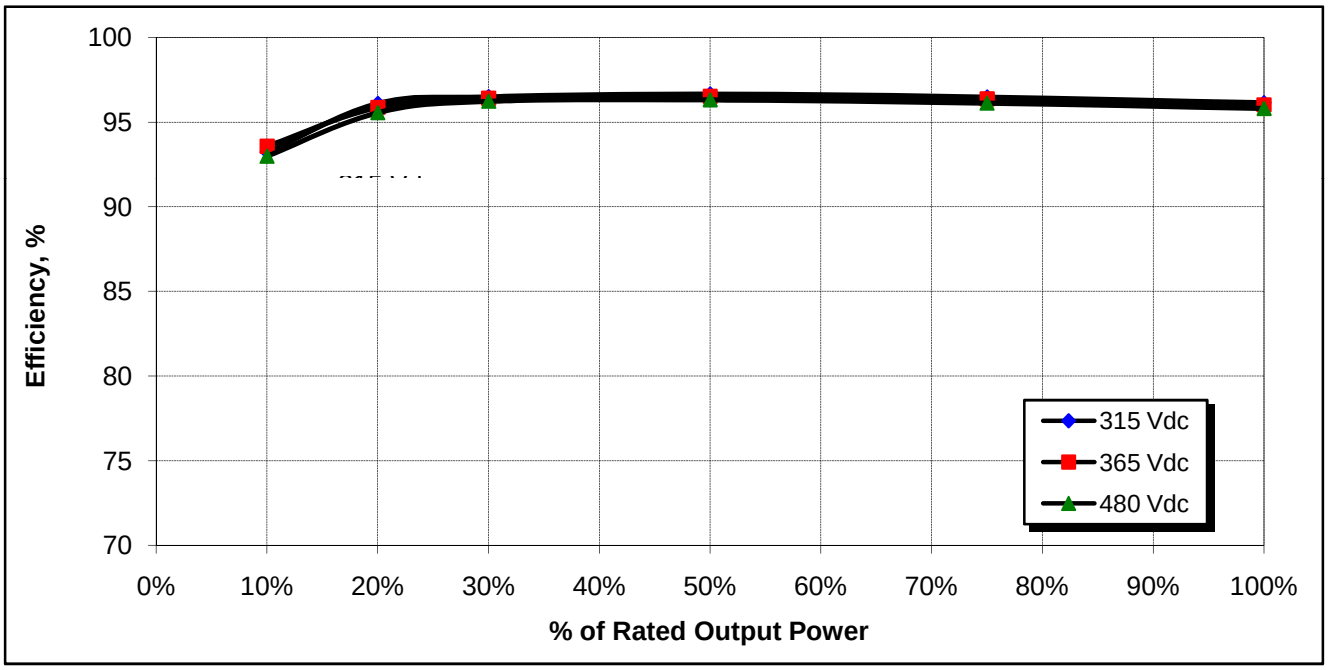
Model #: PVS-100 (480 V)

Rated Maximum Continuous Output Power: 100.00 kW Night Tare Loss: -66.13 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	93.2	96.1	96.5	96.7	96.5	96.1	96.4
Vnom	365	93.6	95.9	96.4	96.5	96.4	96.0	96.3
Vmax	480	93.0	95.6	96.2	96.3	96.1	95.8	96.0

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	9051.5	316.55	93.257	9049	316.54	93.177	9046	316.53	93.176	9046	316.56	93.093	9062	316.54	93.212
20%	Vmin	21206	316.44	96.122	21206	316.49	96.162	21187	316.5	96.135	21224	316.46	96.064	21202	316.45	96.093
30%	Vmin	31348	317.3	96.486	31350	317.33	96.481	31393	317.35	96.559	31353	317.35	96.485	31382	317.38	96.463
50%	Vmin	54732	317.22	96.673	54742	317.21	96.700	54740	317.21	96.671	54713	317.12	96.632	54743	317.16	96.650
75%	Vmin	72973	317	96.487	72973	317.06	96.443	73001	317.09	96.512	73016	317.07	96.497	73022	317.05	96.478
100%	Vmin	95296	316.85	96.162	95339	316.86	96.137	95386	316.88	96.179	95217	316.86	96.128	95292	316.88	96.169
10%	Vnom	9057.3	362.9	93.644	9051	362.89	93.637	9044	362.89	93.840	9060	362.88	93.639	9061	362.89	93.579
20%	Vnom	21255	362.9	95.924	21230	362.91	95.909	21219	362.87	95.853	21229	362.9	95.836	21223	362.87	95.768
30%	Vnom	31416	362.79	96.422	31414	362.82	96.398	31419	362.81	96.498	31417	362.72	96.446	31416	362.77	96.362
50%	Vnom	54739	362.67	96.532	54730	362.73	96.541	54748	362.71	96.557	54743	362.84	96.509	54734	362.73	96.503
75%	Vnom	73070	362.94	96.402	73045	362.88	96.367	73049	362.9	96.373	73058	362.92	96.357	73039	362.9	96.328
100%	Vnom	95407	362.52	96.053	60	362.51	96.015	95421	362.47	96.016	95402	362.55	96.011	95427	362.49	96.023
10%	Vmax	9083.6	475.97	92.970	9079	476	92.583	9095	476.01	92.875	9091	476.01	92.965	9105	476.03	93.073
20%	Vmax	21289	475.97	95.646	21250	475.91	95.563	21303	475.97	95.691	21263	476.01	95.417	21277	475.95	95.511
30%	Vmax	31432	475.99	96.259	31432	475.91	96.247	31428	475.98	96.155	31423	475.95	96.259	31422	475.93	96.194
50%	Vmax	54807	475.87	96.319	54802	475.8	96.352	54784	475.84	96.291	54765	475.89	96.217	54772	475.83	96.316
75%	Vmax	73087	475.79	96.126	73087	475.78	96.138	73109	475.79	96.145	73059	475.77	96.046	73107	475.82	96.177
100%	Vmax	95426	475.6	95.864	95428	475.65	95.825	95403	475.6	95.788	95453	475.74	95.852	95406	475.66	95.764

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	9056.4	316.53	93.161	9053	316.5	93.511									
20%	Vmin	21210	316.46	96.108	21202	316.47	96.055									
30%	Vmin	31363	317.37	96.500	31399	317.35	96.512									
50%	Vmin	54727	317.23	96.648	54732	317.21	96.635									
75%	Vmin	72959	317.06	96.468	73007	317.04	96.506									
100%	Vmin	95344	316.86	96.128	95421	316.92	96.136									
10%	Vnom	9054.7	362.93	93.347	9051	362.9	93.311									
20%	Vnom	21227	362.86	95.947	21229	362.83	95.871									
30%	Vnom	31401	362.82	96.358	31401	362.82	96.398									
50%	Vnom	54713	362.73	96.528	54746	362.73	96.527									
75%	Vnom	73037	362.95	96.367	73031	362.97	96.402									
100%	Vnom	95376	362.35	96.006	60.02	362.28	96.049									
10%	Vmax	9078.5	475.98	93.330	9074	475.97	93.123									
20%	Vmax	21250	475.91	95.427	21296	475.93	95.635									
30%	Vmax	31418	475.94	96.239	31446	475.95	96.269									
50%	Vmax	54772	475.82	96.353	54785	475.78	96.359									
75%	Vmax	73089	475.71	96.109	73114	475.79	96.113									
100%	Vmax	95439	475.71	95.783	95428	475.64	95.778									