Manufacturer: SatCon Power Systems

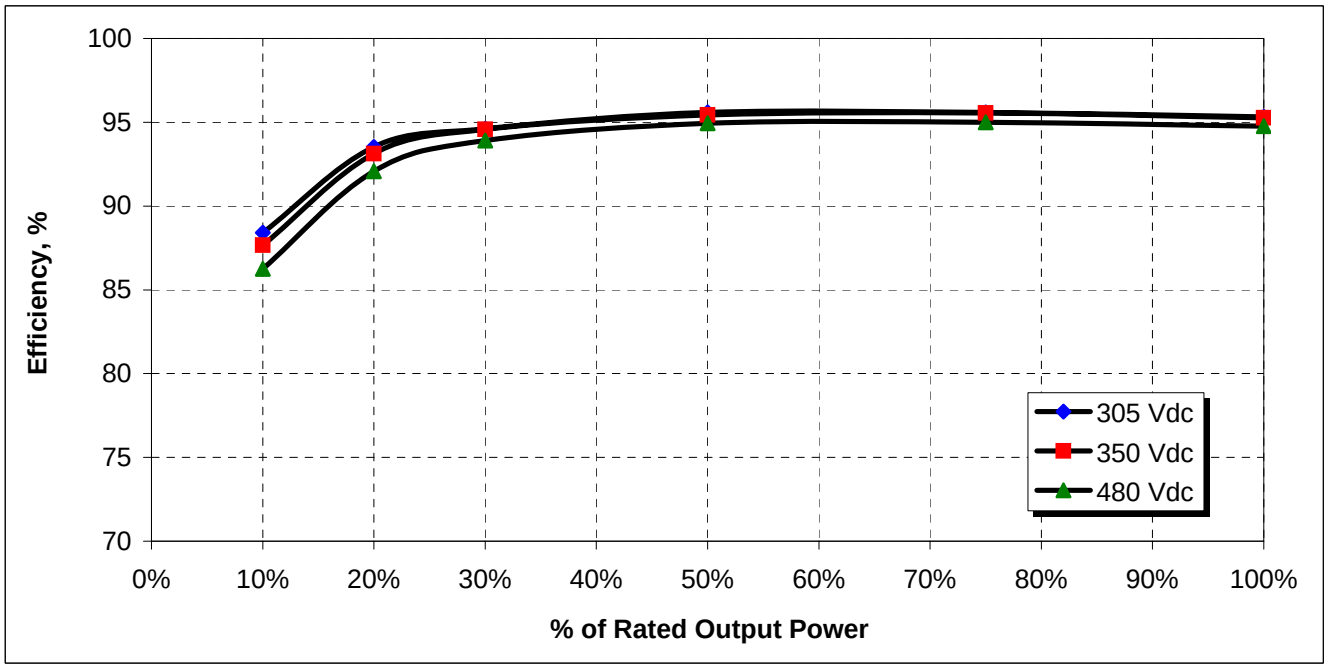
Model #: PVS-30 (480V)

Rated Maximum Continuous Output Power: 30.00 kW Night Tare Loss: 72.30 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		3.00	6.00	9.00	15.00	22.50	30.00	Wtd
Vmin	305	88.4	93.5	94.6	95.6	95.6	95.3	95.1
Vnom	350	87.7	93.1	94.6	95.4	95.5	95.3	95.0
Vmax	480	86.3	92.1	93.9	94.9	95.0	94.8	94.3

CEC Efficiency = 95.0%



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	2770.09	306.50	88.44	2758.18	306.53	88.46	2765.42	306.53	88.56	2756.13	306.54	88.46	2761.73	306.56	88.43
20%	Vmin	6446.72	306.50	93.43	6444.66	306.41	93.46	6446.43	306.49	93.53	6436.11	306.42	93.47	6425.82	306.42	93.63
30%	Vmin	9500.04	306.29	94.59	9481.88	306.29	94.59	9494.54	306.31	94.71	9488.52	306.33	94.54	9488.68	306.24	94.71
50%	Vmin	16340.10	306.19	95.64	16349.10	306.18	95.63	16355.33	306.18	95.61	16338.77	306.23	95.62	16346.87	306.14	95.56
75%	Vmin	22466.80	306.06	95.35	22493.13	305.95	95.46	22525.07	305.99	95.66	22550.50	306.03	95.63	22536.23	305.98	95.67
100%	Vmin	28864.10	305.91	95.41	28862.83	305.97	95.39	28887.97	305.96	95.41	28884.13	306.00	95.37	28814.90	305.93	95.22
10%	Vnom	2781.40	355.20	88.15	2770.42	355.27	87.81	2781.68	355.22	87.65	2766.25	355.13	87.47	2778.01	355.24	87.48
20%	Vnom	6399.55	355.12	93.23	6403.16	355.11	93.01	6398.53	355.10	93.09	6434.16	355.03	93.03	6455.75	355.07	93.05
30%	Vnom	9536.13	355.01	94.44	9554.26	354.97	94.66	9549.14	355.01	94.49	9550.75	355.04	94.68	9541.90	354.97	94.68
50%	Vnom	16340.40	354.95	95.41	16352.93	354.86	95.31	16340.97	354.87	95.35	16353.43	354.92	95.49	16376.10	354.99	95.42
75%	Vnom	22515.77	354.74	95.57	22505.47	354.78	95.56	22503.67	354.66	95.49	22504.13	354.80	95.59	22485.50	354.75	95.54
100%	Vnom	28690.27	354.65	95.08	28687.80	354.58	95.19	28732.47	354.66	95.32	28767.73	354.73	95.37	28812.50	354.74	95.33
10%	Vmax	2796.47	479.51	86.57	2797.43	479.57	86.38	2796.54	479.55	86.33	2795.47	479.55	86.10	2797.59	479.55	85.88
20%	Vmax	6408.71	479.41	92.08	6408.18	479.49	92.12	6403.83	479.40	92.08	6407.55	479.46	91.95	6413.91	479.45	92.12
30%	Vmax	9576.01	479.43	93.99	9585.43	479.39	93.93	9577.53	479.39	93.86	9577.59	479.38	93.89	9586.87	479.36	93.96
50%	Vmax	16287.30	479.28	94.63	16327.93	479.29	95.02	16326.70	479.23	94.93	16334.47	479.27	94.95	16327.73	479.21	95.02
75%	Vmax	22610.93	479.13	95.12	22602.13	479.18	95.10	22589.13	479.17	95.09	22576.73	479.14	95.11	22525.43	479.15	94.91
100%	Vmax	30437.70	479.03	94.55	30451.30	478.88	94.67	30498.63	478.89	94.78	30536.17	478.93	94.90	30548.70	478.93	94.83

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	2758.96	306.53	88.22	2759.75	306.57	88.32									
20%	Vmin	6430.77	306.42	93.49	6437.98	306.46	93.63									
30%	Vmin	9495.32	306.34	94.63	9486.98	306.27	94.51									
50%	Vmin	16357.57	306.09	95.52	16356.90	306.19	95.58									
75%	Vmin	22561.73	305.91	95.65	22544.33	305.96	95.63									
100%	Vmin	28784.63	305.97	95.15	28787.73	305.90	95.24									
10%	Vnom	2767.74	355.20	87.21	2778.83	355.24	87.88									
20%	Vnom	6452.55	355.11	93.21	6456.53	355.09	93.22									
30%	Vnom	9539.22	355.03	94.58	9543.65	355.02	94.54									
50%	Vnom	16361.40	354.90	95.51	16349.93	354.96	95.56									
75%	Vnom	22524.10	354.76	95.58	22523.87	354.75	95.45									
100%	Vnom	28813.40	354.65	95.25	28851.43	354.80	95.26									
10%	Vmax	2796.76	479.57	86.39	2799.56	479.57	86.11									
20%	Vmax	6408.04	479.43	92.06	6410.38	479.44	92.14									
30%	Vmax	9592.55	479.41	94.00	9594.91	479.36	93.78									
50%	Vmax	16309.47	479.25	94.92	16304.90	479.22	95.05									
75%	Vmax	22516.97	479.12	94.82	22502.10	479.12	94.84									
100%	Vmax	30494.83	478.95	94.80	30480.73	478.94	94.83									