Manufacturer: SatCon Power Systems

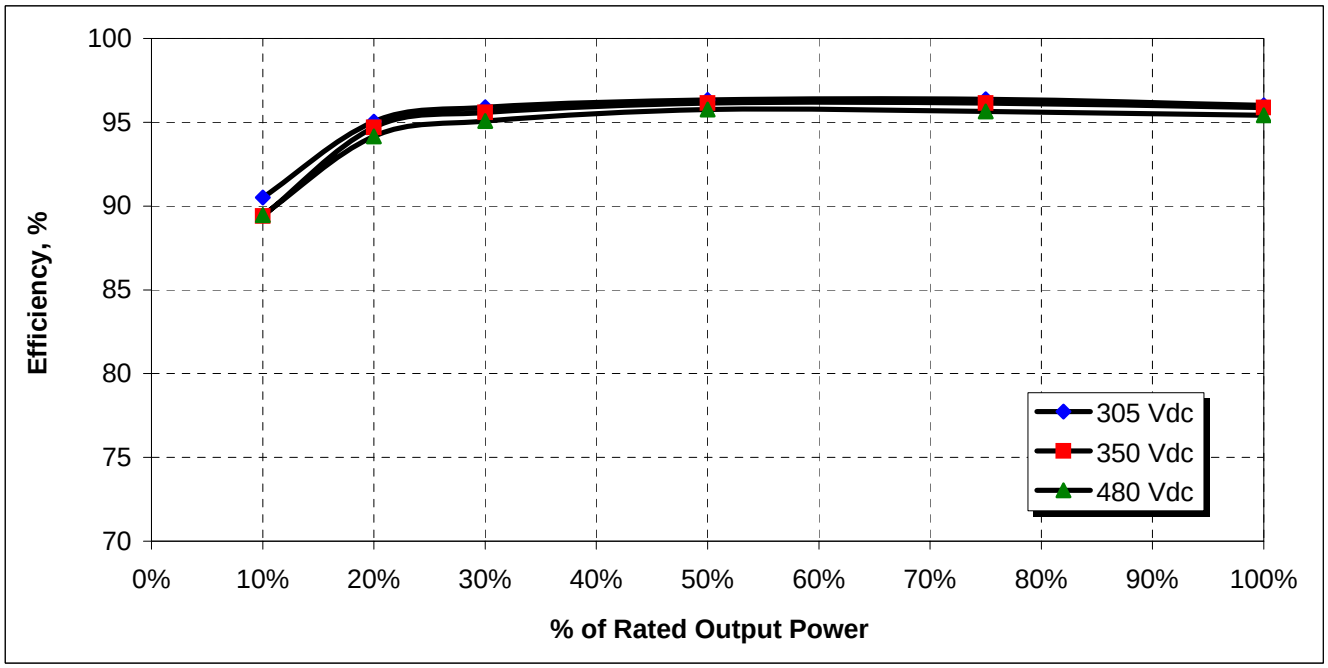
Model #: PVS-50 (480 V)

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	90.5	95.0	95.9	96.3	96.4	96.0	96.0
Vnom	350	89.4	94.7	95.6	96.1	96.1	95.9	95.7
Vmax	480	89.5	94.2	95.1	95.8	95.6	95.4	95.3

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	4517.81	298.84	90.575	4544.6	298.31	90.627	4512.2	299.18	90.482	4551.5	298	90.613	4521.9	299.34	90.307
20%	Vmin	10928.1	301.91	95.001	10860	300.91	95.145	10859	301.17	95.019	10899	301.71	95.009	10921	300.32	95.084
30%	Vmin	15704.7	303.45	96.009	15910	302.82	95.893	15863	304.25	95.888	15893	301.79	95.971	15853	304.51	95.807
50%	Vmin	26824.3	304	96.351	26776	303.38	96.393	26815	302.45	96.340	26582	304.14	96.368	25139	301.66	96.374
75%	Vmin	38100	307.33	96.374	38133	304.67	96.377	38200	305.33	96.384	38167	306	96.462	38233	304.33	96.306
100%	Vmin	49266.7	308.33	95.725	48567	304.67	95.917	48867	304.67	96.132	49133	306.33	96.152	48700	304.33	96.119
10%	Vnom	4608.54	350.65	90.053	4418.9	354.18	87.222	4511.6	350.48	88.650	4591.3	353.94	90.178	4577.7	351.26	89.963
20%	Vnom	11007.3	354.12	94.813	10679	350.5	94.761	10540	353.33	94.721	10494	351.57	94.580	10542	352.16	94.702
30%	Vnom	15961.6	350.29	95.607	15928	354.92	95.567	15882	351.19	95.580	15957	351.43	95.508	15934	352.88	95.601
50%	Vnom	26385.7	349.62	96.222	26353	354.11	96.150	26383	350.05	96.225	26399	354.16	96.205	26304	352	96.113
75%	Vnom	37733.3	353	96.259	37767	349.33	96.180	37700	353.67	96.173	37767	349.33	96.099	37833	352.67	96.105
100%	Vnom	48466.7	358.67	95.595	48433	351.67	95.655	48633	349	95.987	48633	353.33	95.987	48600	350.67	95.984
10%	Vmax	4856.99	480.81	89.722	4810.3	477.09	89.612	4863.6	478.36	89.590	4814.8	479.8	89.252	4885.1	475.81	89.501
20%	Vmax	10786.9	475.09	94.022	10772	474.96	94.073	10795	480.79	94.209	10755	476.91	94.202	10792	478.29	94.248
30%	Vmax	15191.5	485.85	95.102	16015	476.99	95.105	15897	483.41	95.241	15679	480.37	95.020	15720	478.46	95.093
50%	Vmax	26082.1	479.33	95.749	26142	479.3	95.767	26084	483.51	95.800	26120	476.59	95.790	26115	485.52	95.702
75%	Vmax	36033.3	478	95.833	35967	484	95.741	36000	476.33	95.745	36033	483	95.748	36000	482	95.745
100%	Vmax	48366.7	483.67	95.523	48167	478.67	95.066	48300	480	95.266	48367	482.67	95.523	48367	476.67	95.586

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	4567.39	297.55	90.445	4538.6	299.54	90.515									
20%	Vmin	10925.1	302.39	94.993	10924	300.15	94.955									
30%	Vmin	15884.8	301.62	95.808	15950	303.49	95.938									
50%	Vmin	25418.3	304.14	96.252	25747	301.87	96.219									
75%	Vmin	38166.7	307	96.381	38200	304.67	96.384									
100%	Vmin	49233.3	306.67	95.971	49000	306	96.016									
10%	Vnom	4610.14	352.82	90.006	4564	352.44	89.751									
20%	Vnom	10494.3	352.84	94.600												
30%	Vnom	15990	349.64	95.687	15962	353.95	95.530									
50%	Vnom	26345.1	351.23	96.079	26321	353.58	96.028									
75%	Vnom	37766.7	352	96.099	37800	350.33	96.020									
100%	Vnom	48666.7	351	95.989	48633	353.33	95.924									
10%	Vmax	4851.38	481.75	89.345	4867.2	474.77	89.214									
20%	Vmax															
30%	Vmax	15693.5	484.03	94.932	15706	476.62	95.069									
50%	Vmax	26075.3	477.69	95.818	26144	482.3	95.711									
75%	Vmax	35933.3	477	95.567	35767	485	95.124									
100%	Vmax	48433.3	482	95.592	48300	482.33	95.393									