Manufacturer: Satcon Technology Corporation

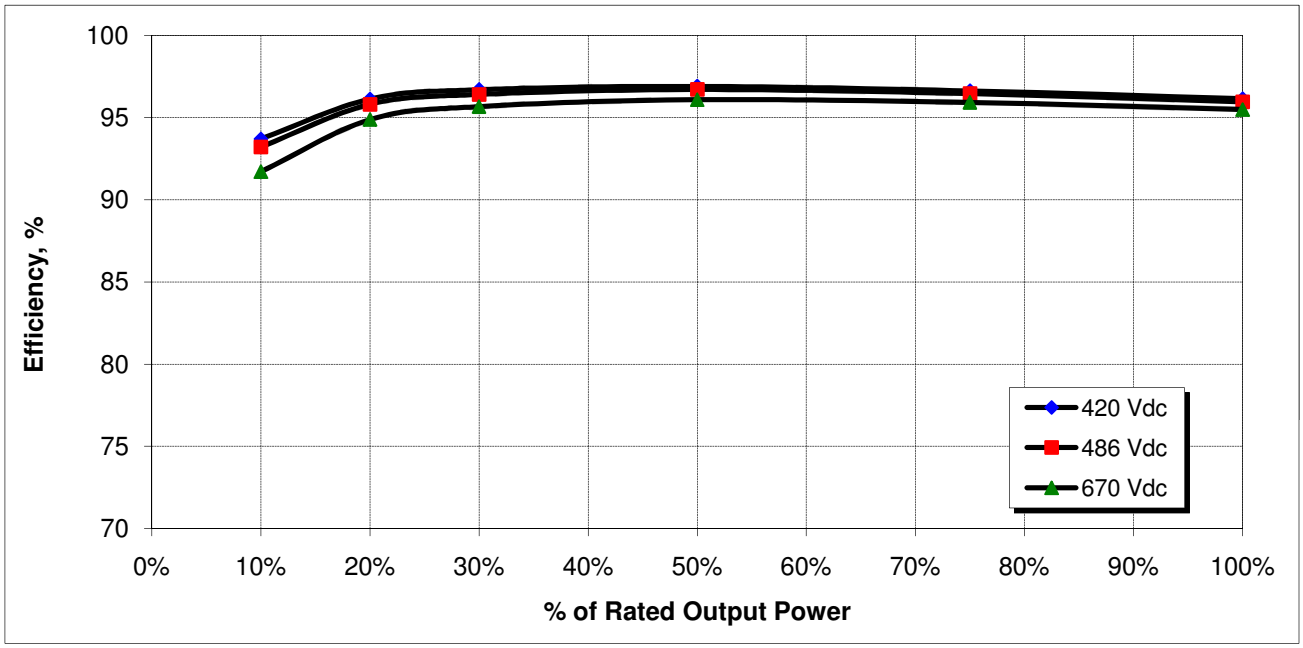
Model #: PowerGate Plus PVS-1000-265-UL2

Rated Maximum Continuous Output Power: 1000.00 kW Night Tare Loss: 396.39 W

Vmin: 420 Vdc Vnom: 486 Vdc Vmax: 670 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		100.00	200.00	300.00	500.00	750.00	1000.00	Wtd
Vmin	420	93.7	96.1	96.7	96.9	96.6	96.1	96.5
Vnom	486	93.2	95.8	96.4	96.7	96.5	96.0	96.3
Vmax	670	91.7	94.9	95.7	96.1	95.9	95.5	95.7

CEC Efficiency = 96.0%



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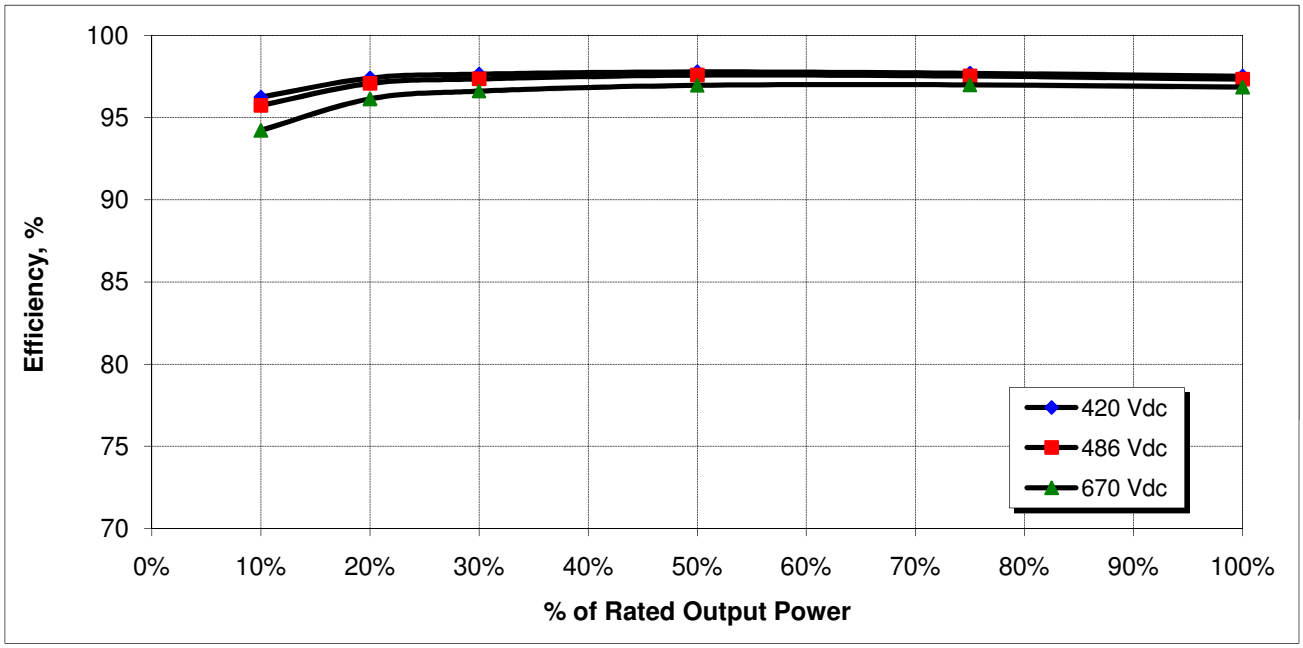
Input Voltage (Vdc)		100.00	200.00	300.00	500.00	750.00	1000.00	Wtd
Vmin	420	96.2	97.4	97.6	97.8	97.7	97.5	97.6
Vnom	486	95.7	97.1	97.4	97.6	97.5	97.3	97.4
Vmax	670	94.2	96.1	96.6	97.0	97.0	96.8	96.8

Inverter Efficiency w/o Transformer = 97.5%



MIN. TRANSOFRMER EFFICIENCY PER NEMA TP1

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		100.00	200.00	300.00	500.00	750.00	1000.00	Wtd
Vmin	420	97.4	98.7	99.0	99.1	98.9	98.6	98.9
Vnom	486	97.4	98.7	99.0	99.1	98.9	98.6	98.9
Vmax	670	97.4	98.7	99.0	99.1	98.9	98.6	98.9

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	90231.93	420.69	96.21	90221.93	420.78	96.25	90162.53	420.65	96.22	90124.17	420.76	96.23	90192.87	420.74	96.26
20%	Vmin	211010.67	420.09	97.24	211086.00	420.31	97.40	211098.67	420.21	97.42	210805.33	420.23	97.43	210713.67	420.24	97.44
30%	Vmin	311290.33	419.71	97.66	311393.67	419.69	97.66	311253.00	419.70	97.64	311313.00	419.63	97.64	311565.67	419.78	97.64
50%	Vmin	522865.00	420.92	97.78	522912.00	420.79	97.79	522936.00	421.13	97.79	522956.67	420.77	97.78	523021.00	420.86	97.79
75%	Vmin	703879.33	420.18	97.71	703872.00	420.22	97.69	703782.67	420.34	97.70	703669.67	420.24	97.69	703679.67	420.28	97.71
100%	Vmin	955482.33	419.44	97.52	955320.00	419.47	97.52	955355.67	419.41	97.52	955365.67	419.42	97.52	955364.33	419.45	97.53
10%	Vnom	89826.17	487.17	95.78	89872.13	487.17	95.70	89934.60	487.13	95.75	90045.67	487.34	95.76	90109.23	487.04	95.74
20%	Vnom	210959.33	486.60	97.05	210974.67	486.65	97.08	210956.67	486.70	97.08	210888.00	486.66	97.09	210984.33	486.69	97.09
30%	Vnom	311502.67	486.13	97.35	311429.67	486.32	97.34	311393.00	486.36	97.34	311451.33	486.08	97.35	311397.00	486.52	97.35
50%	Vnom	522992.67	485.60	97.58	523057.33	485.66	97.56	523038.67	485.68	97.58	522941.67	485.64	97.58	522972.00	485.65	97.62
75%	Vnom	703962.33	486.21	97.52	704037.00	486.13	97.54	703760.33	486.37	97.53	703828.67	486.08	97.52	704021.67	486.35	97.53
100%	Vnom	955731.00	486.14	97.35	955654.33	486.30	97.33	955444.33	486.88	97.30	955539.33	486.30	97.33	955703.33	486.78	97.34
10%	Vmax	90385.93	670.70	94.26	90404.77	670.92	94.26	90381.17	670.84	94.27	90267.00	670.93	94.16	90156.17	670.71	94.23
20%	Vmax	210791.67	670.46	96.12	210637.33	670.69	96.09	210699.00	670.46	96.09	210650.67	670.60	96.12	210688.33	670.50	96.11
30%	Vmax	311707.67	670.55	96.57	311638.33	670.10	96.58	311636.67	670.39	96.61	311502.67	670.32	96.62	311504.33	670.16	96.60
50%	Vmax	522887.33	670.08	96.98	522836.00	669.69	96.97	522872.67	669.84	96.97	522890.33	669.92	96.96	522939.67	669.72	96.95
75%	Vmax	704294.00	669.32	97.01	704031.67	669.75	96.97	704067.00	669.39	97.00	703995.00	669.60	96.97	703811.67	669.54	97.00
100%	Vmax	955438.67	669.04	96.87	955378.00	669.26	96.84	955261.33	669.00	96.84	955400.33	669.28	96.83	955430.33	669.02	96.85

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	90189.50	420.71	96.26	90155.97	420.75	96.24									
20%	Vmin	210698.33	420.23	97.43	210755.33	420.24	97.45									
30%	Vmin	311516.00	419.58	97.63	311402.00	419.88	97.64									
50%	Vmin	522958.33	420.94	97.76	522944.33	420.89	97.78									
75%	Vmin	703511.00	420.27	97.70	703470.67	420.24	97.69									
100%	Vmin	955388.33	419.40	97.53	955299.67	419.44	97.52									
10%	Vnom	90201.17	487.33	95.72	90277.53	487.07	95.73									
20%	Vnom	211063.67	486.72	97.10	211198.00	486.83	97.06									
30%	Vnom	311542.00	486.15	97.36	311566.33	486.34	97.35									
50%	Vnom	522957.00	485.69	97.57	522938.67	485.73	97.59									
75%	Vnom	704121.67	486.21	97.52	704054.00	486.16	97.52									
100%	Vnom	955438.00	486.47	97.32	955332.67	486.64	97.32									
10%	Vmax	90036.10	671.05	94.11	89899.13	670.67	94.21									
20%	Vmax	210850.33	670.70	96.12	210784.00	670.57	96.29									
30%	Vmax	311592.00	670.35	96.66	311503.33	670.24	96.61									
50%	Vmax	522990.67	669.86	96.94	522911.33	669.75	96.96									
75%	Vmax	703878.67	669.40	96.98	703731.67	669.61	97.00									
100%	Vmax	955543.00	669.27	96.84	955445.00	669.01	96.85									