Manufacturer: Satcon Technology Corporation

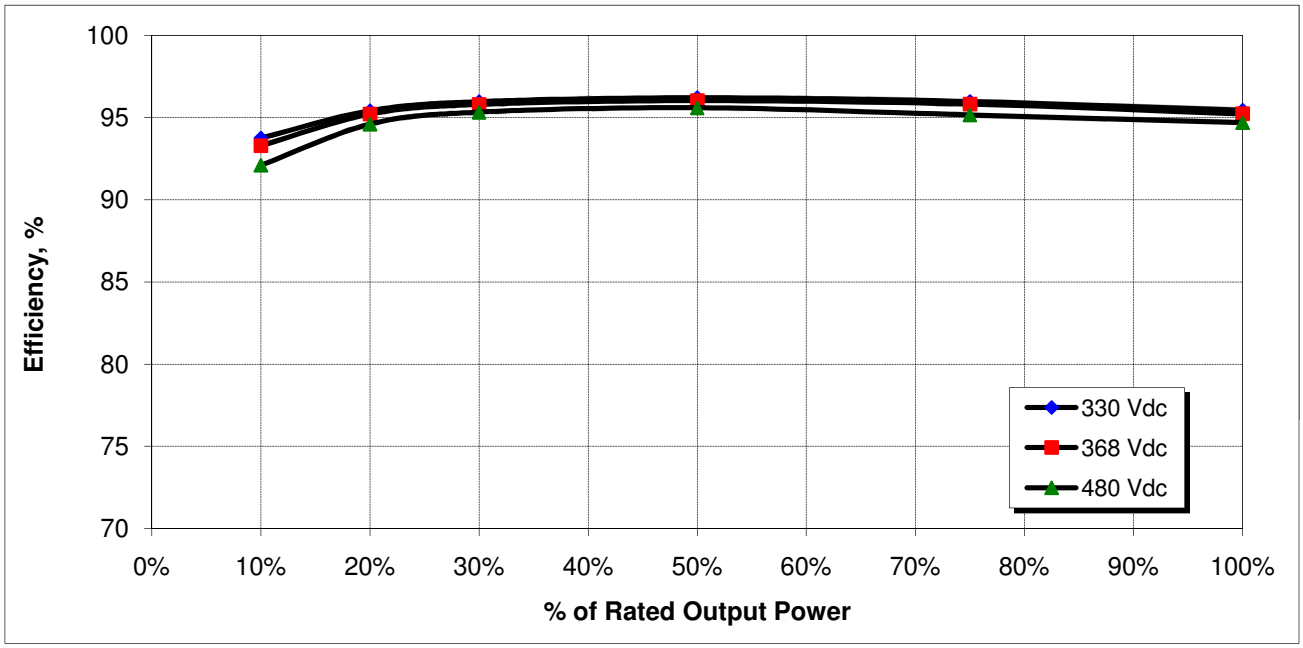
Model #: PowerGate Plus PVS-250 (MVT)

Rated Maximum Continuous Output Power: 250.00 kW Night Tare Loss: 151.76 W

Vmin: 330 Vdc Vnom: 368 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		25.00	50.00	75.00	125.00	187.50	250.00	Wtd
Vmin	330	93.8	95.4	96.0	96.2	96.0	95.4	95.9
Vnom	368	93.3	95.2	95.8	96.0	95.8	95.2	95.7
Vmax	480	92.1	94.6	95.3	95.6	95.2	94.7	95.1

CEC Efficiency = 95.5%



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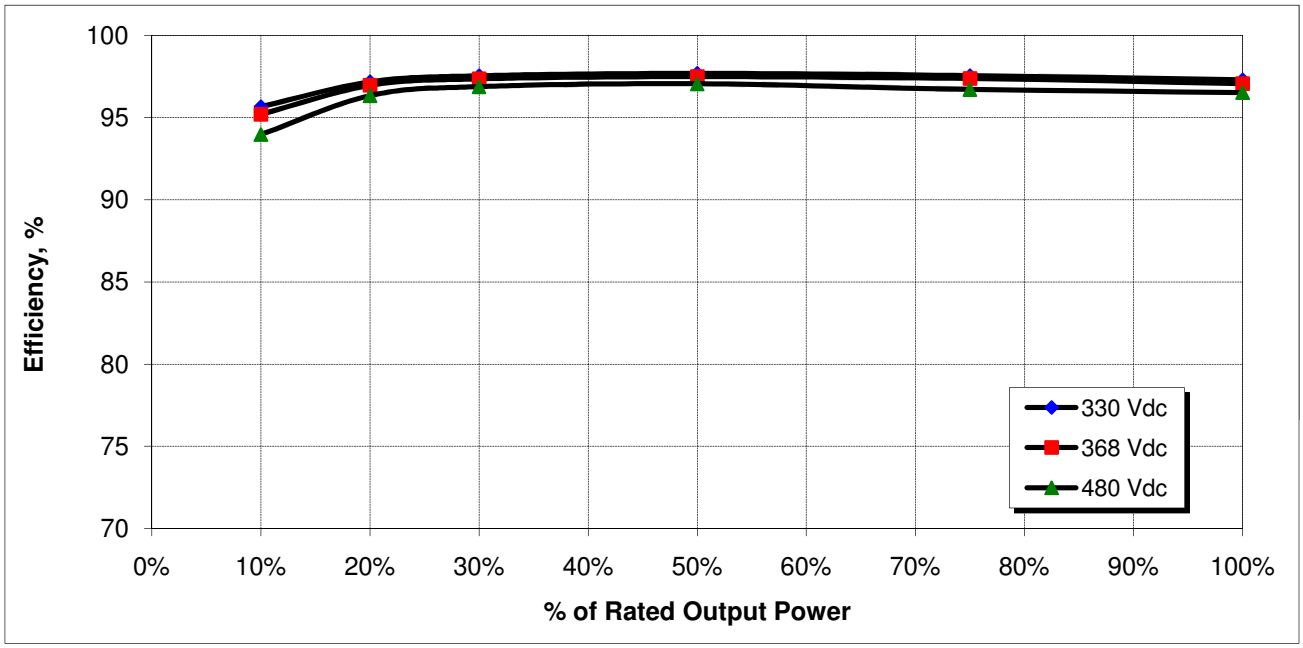
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		25.00	50.00	75.00	125.00	187.50	250.00	Wtd
Vmin	330	95.7	97.2	97.5	97.7	97.5	97.3	97.5
Vnom	368	95.2	97.0	97.4	97.5	97.4	97.1	97.3
Vmax	480	94.0	96.3	96.9	97.0	96.7	96.5	96.7

Inverter Efficiency w/o Transformer = 97.0%



MIN. TRANSOFRMER EFFICIENCY PER NEMA TP1

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		25.00	50.00	75.00	125.00	187.50	250.00	Wtd
Vmin	420	98.0	98.2	98.4	98.5	98.4	98.1	98.4
Vnom	486	98.0	98.2	98.4	98.5	98.4	98.1	98.4
Vmax	670	98.0	98.2	98.4	98.5	98.4	98.1	98.4

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	22705.43	330.31	95.59	22712.37	330.29	95.61	22679.60	330.31	95.71	22691.70	330.28	95.74	22740.50	330.31	95.68
20%	Vmin	53166.83	330.00	97.19	53222.43	330.01	97.20	53329.97	329.99	97.18	53308.63	330.00	97.16	53252.47	330.02	97.18
30%	Vmin	78635.03	330.82	97.52	78647.73	330.84	97.55	78618.37	330.80	97.55	78620.90	330.83	97.55	78607.63	330.83	97.51
50%	Vmin	131794.33	330.25	97.67	131795.33	330.31	97.68	131845.67	330.26	97.70	131706.67	330.37	97.66	131774.67	330.27	97.69
75%	Vmin	182375.67	330.84	97.56	182360.33	330.81	97.52	182368.67	330.80	97.56	182356.00	330.83	97.54	182296.67	330.84	97.52
100%	Vmin	240465.67	330.35	97.27	240572.67	330.35	97.32	240577.33	330.32	97.31	240535.67	330.30	97.28	240515.00	330.30	97.27
10%	Vnom	22989.67	369.52	95.11	22955.20	369.55	95.11	22981.47	369.53	95.18	22958.33	369.61	95.25	22980.70	369.56	95.29
20%	Vnom	53348.33	369.13	96.99	53260.67	369.09	96.95	53357.87	369.12	97.00	53359.93	369.15	96.98	53380.23	369.10	96.95
30%	Vnom	78746.93	369.86	97.35	78772.60	369.94	97.35	78767.73	369.89	97.35	78650.77	369.96	97.35	78753.17	369.93	97.37
50%	Vnom	131974.67	369.41	97.51	131837.67	369.38	97.48	131909.00	369.44	97.50	131946.67	369.48	97.51	131924.00	369.39	97.47
75%	Vnom	182557.67	368.95	97.42	182525.67	368.89	97.40	182505.33	368.95	97.36	182540.67	369.03	97.35	182601.00	368.94	97.38
100%	Vnom	240399.00	368.52	97.00	60.01	368.58	97.06	240677.33	368.56	97.10	240720.67	368.56	97.11	240713.00	368.52	97.09
10%	Vmax	23136.23	480.29	94.02	23168.20	480.33	93.90	23140.73	480.32	94.02	23124.13	480.30	94.05	23108.23	480.31	94.03
20%	Vmax	53571.30	480.16	96.38	53538.10	480.15	96.32	53549.07	480.13	96.37	53530.97	480.14	96.28	53535.50	480.14	96.33
30%	Vmax	79035.57	479.95	96.87	78983.93	479.97	96.84	78960.70	479.96	96.86	78951.10	479.99	96.89	78946.30	479.98	96.92
50%	Vmax	132210.67	480.60	97.08	132305.67	480.60	97.10	132192.00	480.59	97.03	132162.33	480.57	97.00	132188.33	480.62	97.03
75%	Vmax	182537.00	480.34	96.70	182550.33	480.31	96.71	182544.00	480.37	96.70	182508.33	480.30	96.71	182497.33	480.31	96.71
100%	Vmax	240830.33	479.96	96.51	240869.00	479.95	96.51	240814.33	479.95	96.52	240810.00	479.97	96.51	240835.33	479.91	96.52

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	22706.10	330.30	95.65	22671.67	330.32	95.68									
20%	Vmin	53291.97	330.05	97.12	53281.20	329.99	97.13									
30%	Vmin	78652.13	330.81	97.53	78670.03	330.76	97.54									
50%	Vmin	131809.67	330.27	97.66	131818.00	330.26	97.67									
75%	Vmin	182420.33	330.82	97.58	182313.67	330.83	97.54									
100%	Vmin	240461.67	330.28	97.29	240579.00	330.33	97.34									
10%	Vnom	22961.77	369.56	95.22	22915.67	369.57	95.23									
20%	Vnom	53399.73	369.07	96.94	53371.70	369.13	96.95									
30%	Vnom	78686.10	369.93	97.35	78776.80	369.95	97.39									
50%	Vnom	131990.00	369.43	97.49	131954.33	369.39	97.51									
75%	Vnom	182594.00	368.96	97.38	182511.33	368.94	97.35									
100%	Vnom	240631.33	368.53	97.06	59.99	368.58	97.06									
10%	Vmax	23123.57	480.32	93.90	23124.73	480.25	93.91									
20%	Vmax	53520.07	480.13	96.31	53544.40	480.13	96.30									
30%	Vmax	79027.67	479.89	96.89	78997.70	480.02	96.86									
50%	Vmax	132165.67	480.59	97.06	132230.67	480.56	97.03									
75%	Vmax	182508.00	480.26	96.72	182561.67	480.26	96.70									
100%	Vmax	240730.00	479.99	96.52	240783.00	479.97	96.51									