Manufacturer: Solectria

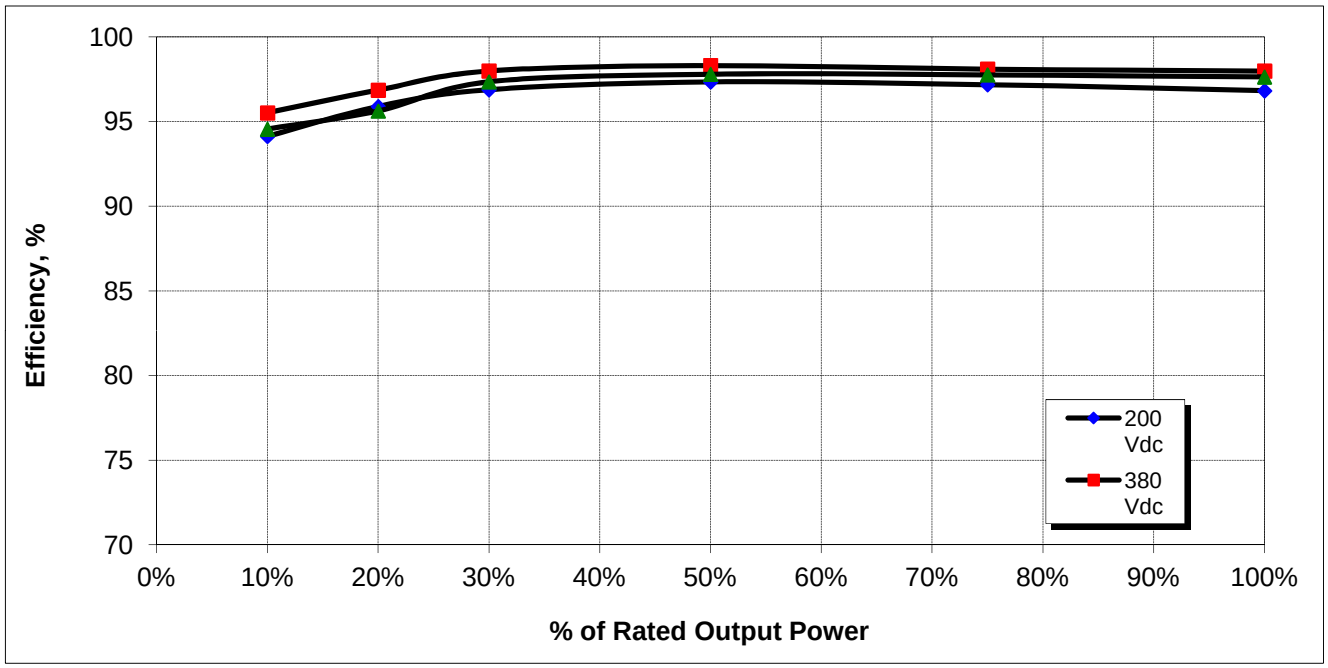
Model #: PVI-3800TL (240V)

Rated Maximum Continuous Output Power: 3.81 kW Night Tare Loss: 1.19 W

Vmin: 200 Vdc Vnom: 380 Vdc Vmax: 500 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.38	0.76	1.14	1.91	2.86	3.81	Wtd
Vmin	200	94.1	95.9	96.9	97.3	97.2	96.8	97.0
Vnom	380	95.5	96.9	98.0	98.3	98.1	98.0	98.0
Vmax	500	94.6	95.6	97.3	97.8	97.8	97.6	97.5

CEC Efficiency = 97.5%



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	382.4	200.0	94.128	382.7	200.0	94.121	382.6	200.0	94.132	382.9	200.0	94.128	382.4	200.0	94.116
20%	Vmin	768.8	200.0	95.896	768.7	200.0	95.885	768.8	200.0	95.887	768.7	200.0	95.894	768.9	200.0	95.889
30%	Vmin	1147.1	200.0	96.889	1147.1	200.0	96.872	1147.1	200.0	96.885	1147.0	200.0	96.877	1147.3	200.0	96.872
50%	Vmin	1904.8	200.3	97.338	1904.9	200.3	97.338	1904.8	200.3	97.336	1904.8	200.3	97.342	1904.9	200.3	97.340
75%	Vmin	2855.3	200.0	97.173	2855.3	200.0	97.174	2855.1	200.0	97.175	2854.9	199.9	97.173	2854.9	199.9	97.174
100%	Vmin	3807.3	200.5	96.808	3807.5	200.5	96.812	3807.5	200.5	96.816	3807.7	200.5	96.819	3807.5	200.5	96.823
10%	Vnom	391.9	380.2	95.499	391.9	380.2	95.503	391.9	380.2	95.504	391.8	380.2	95.497	391.9	380.2	95.517
20%	Vnom	767.6	380.7	96.882	767.7	380.7	96.873	767.7	380.7	96.846	767.6	380.7	96.854	768.2	380.7	96.849
30%	Vnom	1148.8	380.2	97.979	1149.7	380.2	97.998	1149.5	380.2	97.978	1149.4	380.2	97.989	1149.3	380.2	98.001
50%	Vnom	1913.6	380.5	98.312	1915.2	380.5	98.306	1914.8	380.5	98.305	1913.0	380.5	98.310	1915.1	380.5	98.306
75%	Vnom	2855.7	380.3	98.097	2857.7	380.3	98.099	2856.5	380.3	98.095	2855.5	380.3	98.096	2858.2	380.3	98.100
100%	Vnom	3811.5	380.7	97.979	3815.3	380.7	97.976	3811.3	380.7	97.978	3810.2	380.7	97.980	3814.6	380.6	97.979
10%	Vmax	384.1	500.7	94.519	384.1	500.7	94.535	384.1	500.7	94.532	384.4	500.7	94.561	384.1	500.7	94.590
20%	Vmax	767.1	500.5	95.621	767.7	500.5	95.625	767.9	500.5	95.652	767.2	500.5	95.601	767.5	500.5	95.612
30%	Vmax	1138.7	500.9	97.321	1137.7	500.9	97.341	1138.5	500.9	97.348	1138.4	500.9	97.350	1138.3	500.9	97.360
50%	Vmax	1905.3	500.4	97.798	1905.5	500.3	97.802	1904.8	500.3	97.790	1904.0	500.3	97.801	1904.0	500.4	97.790
75%	Vmax	2857.5	500.3	97.747	2859.0	500.3	97.751	2856.0	500.4	97.754	2857.6	500.3	97.759	2858.1	500.3	97.760
100%	Vmax	3813.3	500.4	97.634	3812.8	500.4	97.626	3810.1	500.4	97.632	3812.5	500.4	97.631	3809.4	500.4	97.634

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	382.6	200.0	94.121	382.6	200.0	94.131									
20%	Vmin	768.8	200.0	95.889	769.0	200.0	95.887									
30%	Vmin	1147.1	200.0	96.868	1147.2	200.0	96.884									
50%	Vmin	1904.9	200.3	97.340	1904.8	200.3	97.340									
75%	Vmin	2854.7	199.9	97.176	2854.1	199.9	97.170									
100%	Vmin	3807.6	200.5	96.821	3807.6	200.5	96.824									
10%	Vnom	391.9	380.2	95.535	391.7	380.2	95.522									
20%	Vnom	768.3	380.7	96.840	768.1	380.7	96.848									
30%	Vnom	1148.7	380.2	97.988	1149.6	380.2	97.996									
50%	Vnom	1915.5	380.4	98.307	1913.4	380.5	98.300									
75%	Vnom	2856.2	380.3	98.101	2857.2	380.3	98.104									
100%	Vnom	3810.7	380.7	97.977	3812.3	380.7	97.975									
10%	Vmax	384.2	500.7	94.586	383.9	500.7	94.563									
20%	Vmax	767.2	500.5	95.612	767.4	500.5	95.622									
30%	Vmax	1138.4	500.9	97.346	1137.7	500.9	97.351									
50%	Vmax	1905.2	500.3	97.795	1906.2	500.3	97.789									
75%	Vmax	2854.8	500.4	97.763	2857.9	500.3	97.764									
100%	Vmax	3812.0	500.4	97.635	3813.3	500.4	97.636									