Manufacturer: Solectria Renewables, LLC

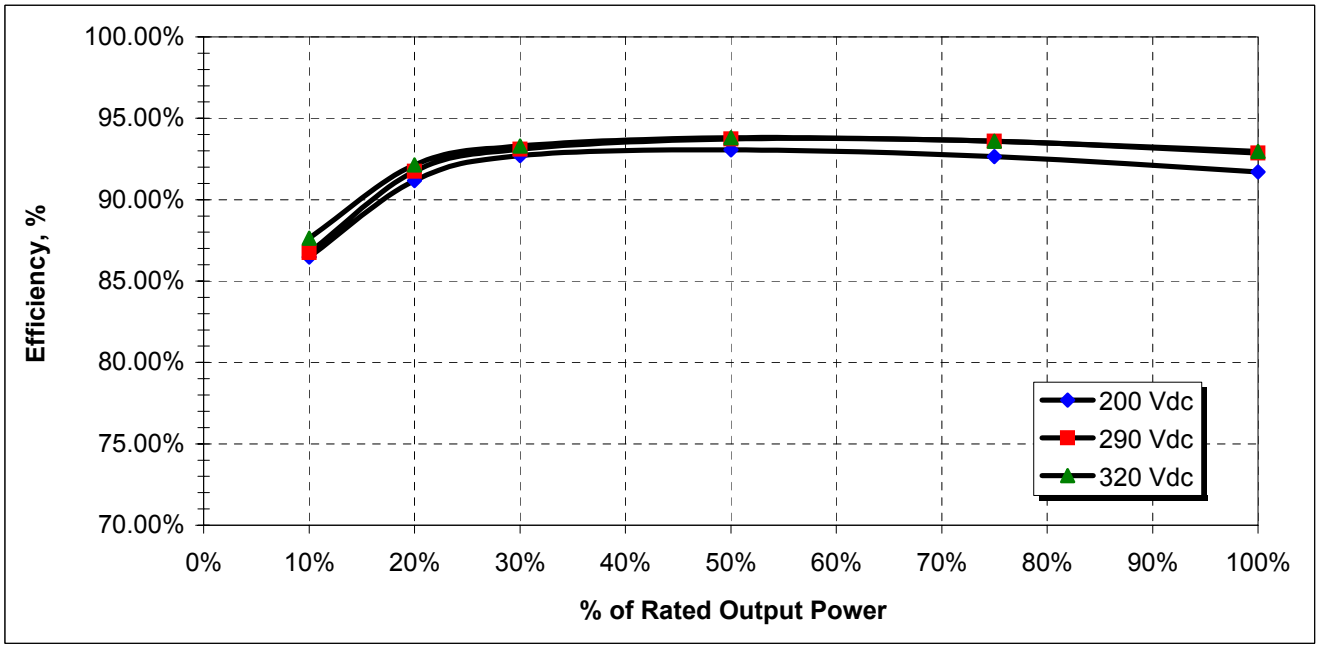
Model #: PVI2500 (240V)

Rated Maximum Continuous Output Power @25°C: 2.500 kW Night Tare Loss: 0.32 W
Rated Maximum Continuous Output Power @40°C: 2.500 kW Night Tare Loss: 0.32 W

Vmin: 200 Vdc Vnom: 290 Vdc Vmax: 320 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.25	0.50	0.75	1.25	1.88	2.50	Wtd
Vmin	200	86.5%	91.2%	92.7%	93.1%	92.6%	91.7%	92.4%
Vnom	290	86.8%	91.7%	93.1%	93.7%	93.6%	92.9%	93.2%
Vmax	320	87.6%	92.1%	93.3%	93.8%	93.6%	93.0%	93.3%

CEC Efficiency = 93.0%



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	224.4	201.31	86.137%	221.93	200.42	85.917%	222.9	200.72	86.957%	223	201.21	87.017%	222.97	201.02	86.323%
20%	Vmin	493.333	199.73	91.407%	498.03	200.68	91.233%	498.7	201.04	90.917%	498.17	200.76	91.073%	500.8	201.25	91.330%
30%	Vmin	771.933	200.9	92.880%	770.87	200.87	92.727%	770.47	200.88	92.653%	773.23	200.95	92.770%	772.63	200.96	92.707%
50%	Vmin	1209.5	200.24	93.100%	1207.3	200.38	93.103%	1203.6	200.26	93.093%	1205.6	200.29	93.020%	1207.7	200.29	93.107%
75%	Vmin	1871.53	200.82	92.623%	1870.6	200.82	92.633%	1871.8	200.79	92.690%	1872.3	200.71	92.680%	1871.1	200.66	92.620%
100%	Vmin	2494	200.24	91.677%	2499.3	200.11	91.733%	2506.7	199.92	91.750%	2499.3	200.09	91.700%	2491.7	200.3	91.633%
10%	Vnom	227.933	283.69	87.843%	211.73	288.39	84.793%	219.73	288.71	86.333%	224.67	287.31	88.757%	224.53	287.56	87.473%
20%	Vnom	498.467	288.64	91.763%	497.57	289.12	91.860%	489.83	289.15	91.310%	495.63	288.72	91.563%	500.47	287.95	92.187%
30%	Vnom	752	289.24	92.910%	755.73	289.16	93.083%	756.07	289.28	93.350%	757.33	289.58	93.250%	757.57	289.73	93.143%
50%	Vnom	1276.47	290.01	93.593%	1279.1	289.78	93.810%	1278.3	289.83	93.813%	1275.8	289.55	93.613%	1274.1	289.4	93.663%
75%	Vnom	1832.83	288.97	93.610%	1833.9	288.99	93.683%	1832.6	288.87	93.557%	1831	288.87	93.577%	1834.2	288.98	93.643%
100%	Vnom	2524.13	290.15	92.983%	2518	290.16	92.813%	2533.5	289.92	92.730%	2537	289.95	92.947%	2538.9	289.93	92.977%
10%	Vmax	227.4	319.06	88.867%	227.63	320.4	88.233%	221.77	316.2	85.523%	227.67	318.38	86.437%	235.87	313.13	90.640%
20%	Vmax	512.867	318.63	92.243%	509.03	318.2	92.097%	509.07	319.02	91.903%	511.87	318.19	92.150%	518.17	318.59	92.450%
30%	Vmax	749.2	319.07	93.220%	739.23	319.39	93.383%	743.5	319.53	93.167%	737.4	319.66	93.203%	742.43	319.19	93.267%
50%	Vmax	1239.6	317.36	93.933%	1241.3	318.69	93.837%	1246.8	319.11	93.640%	1247.7	318.69	93.833%	1243.3	318.75	93.840%
75%	Vmax	1899.53	320.31	93.550%	1900	320.32	93.683%	1903.1	320.4	93.563%	1902.7	320.27	93.550%	1899.4	320.38	93.523%
100%	Vmax	2516.67	320.93	92.803%	2518.2	320.97	92.977%	2511.2	321.1	93.103%	2513.9	321.04	93.017%	2510.2	321.02	92.830%

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	220.167	201.78	86.233%	221.67	201.51	86.690%									
20%	Vmin	501.867	201.76	91.170%	497.47	200.17	91.037%									
30%	Vmin	772.433	200.96	92.677%	771.83	200.96	92.597%									
50%	Vmin	1205	200.38	92.963%	1203.7	200.33	93.000%									
75%	Vmin	1870	200.78	92.603%	1871.6	200.77	92.663%									
100%	Vmin	2495	200.26	91.693%	2491.3	200.36	91.743%									
10%	Vnom	221.8	283.33	86.623%	219.43	287.06	85.473%									
20%	Vnom	499.167	288.32	91.917%	497.37	288.51	91.560%									
30%	Vnom	746.333	289.3	92.930%	750.97	289.3	93.053%									
50%	Vnom	1275.97	289.86	93.763%	1278.4	289.86	93.873%									
75%	Vnom	1832.4	288.87	93.630%	1828.4	288.95	93.487%									
100%	Vnom	2538.73	289.88	92.867%	2533.7	289.9	92.723%									
10%	Vmax	228.167	308.97	87.670%	224.2	317.12	86.030%									
20%	Vmax	506.833	319.42	92.247%	512.5	319.42	91.920%									
30%	Vmax	744	319.5	93.497%	747	319.12	93.347%									
50%	Vmax	1250.4	317.94	93.780%	1260.2	319.36	93.773%									
75%	Vmax	1903.67	320.38	93.643%	1903.5	320.19	93.603%									
100%	Vmax	2515.4	320.99	92.930%	2523	320.96	93.097%									