Manufacturer: Solectria Renewables, LLC

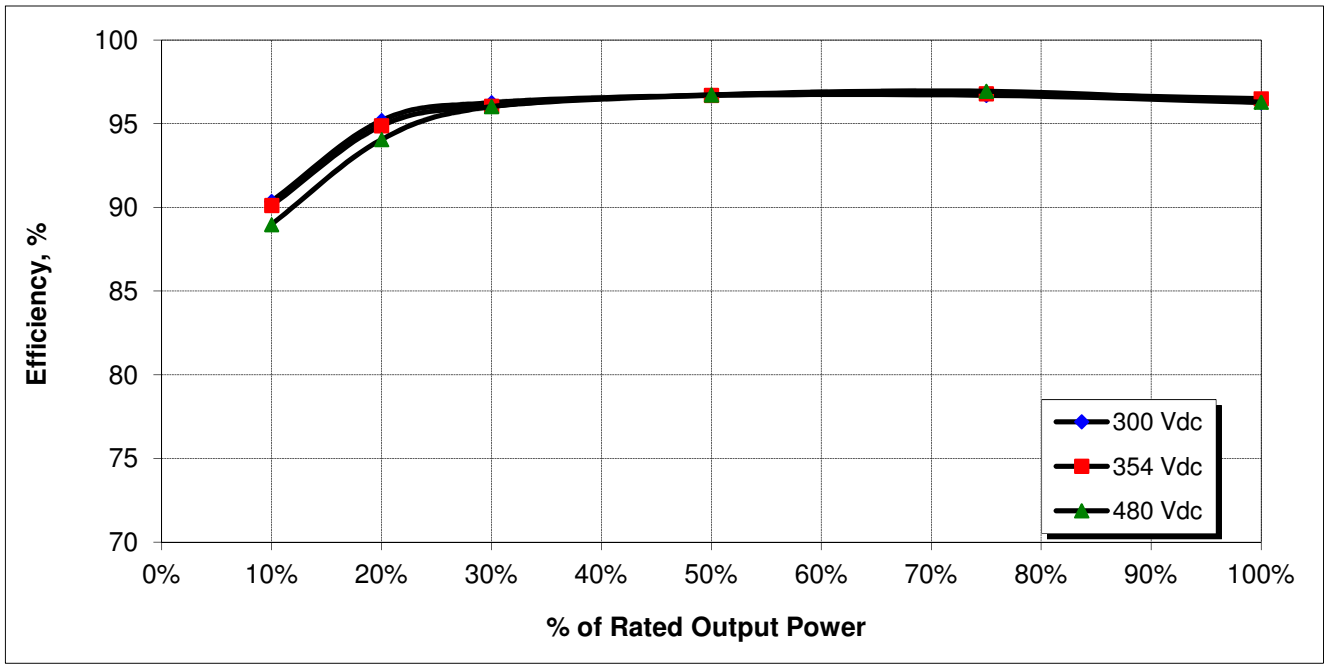
Model #: PVI-85-480

Rated Maximum Continuous Output Power: 85.00 kW Night Tare Loss: -2.86 W

Vmin: 300 Vdc Vnom: 354 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		8.50	17.00	25.50	42.50	63.75	85.00	Wtd
Vmin	300	90.4	95.2	96.3	96.7	96.7	96.3	96.3
Vnom	354	90.1	94.9	96.0	96.7	96.8	96.5	96.3
Vmax	480	89.0	94.0	96.0	96.7	96.9	96.3	96.3

CEC Efficiency = 96.5%



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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	7.1478	300.21	90.541	7.154	300.16	90.143	7.166	300.22	90.747	7.155	300.13	90.219	7.182	300.2	90.108
20%	Vmin	17.38	300.17	95.095	17.37	300.15	95.163	17.36	300.11	95.24	17.37	300.16	95.224	17.39	300.19	95.21
30%	Vmin	26.418	300.2	96.308	26.43	300.22	96.169	26.42	300.25	96.232	26.43	300.23	96.219	26.41	300.23	96.324
50%	Vmin	43.187	300.25	96.753	43.21	300.25	96.663	43.18	300.25	96.637	43.22	300.24	96.67	43.22	300.24	96.677
75%	Vmin	62.835	300.35	96.696	62.91	300.38	96.712	62.83	300.36	96.678	62.68	300.37	96.68	62.69	300.35	96.679
100%	Vmin	84.106	300.42	96.263	84.1	300.47	96.272	84.19	300.44	96.264	84.25	300.43	96.238	84.1	300.47	96.257
10%	Vnom	7.7811	353.89	90.092	7.799	353.93	90.097	7.781	353.92	90.099	7.789	353.95	90.076	7.772	353.91	90.199
20%	Vnom	17.898	353.9	94.9	17.94	353.95	94.838	17.92	353.94	94.875	17.88	353.93	94.936	17.91	353.93	94.867
30%	Vnom	26.617	354.02	96.019	26.64	354.04	96.061	26.62	354.05	96.072	26.62	354.03	96.049	26.58	353.97	96.038
50%	Vnom	46.463	354.1	96.666	46.45	354.11	96.68	46.39	354.15	96.695	46.38	354.06	96.752	46.45	354.07	96.709
75%	Vnom	67.027	354.21	96.788	66.88	354.18	96.833	66.99	354.2	96.765	66.92	354.19	96.773	66.95	354.21	96.767
100%	Vnom	86.327	354.22	96.512	86.21	354.27	96.498	86.21	354.23	96.46	86.13	354.18	96.517	86.2	354.26	96.485
10%	Vmax	7.38	479.69	89.021	7.39	479.67	88.938	7.39	479.67	88.828	7.38	479.62	89.022	7.39	479.67	89.068
20%	Vmax	16.767	479.72	94.07	16.71	479.73	94.073	16.73	479.68	94.188	16.71	479.68	93.811	16.75	479.71	94.104
30%	Vmax	26.1	479.82	96.022	26.1	479.76	95.994	26.1	479.73	95.95	26.2	479.76	96.084	26.2	479.71	96.046
50%	Vmax	41.1	479.74	96.781	41.2	479.75	96.815	41.1	479.8	96.588	41.1	479.8	96.677	41.2	479.82	96.743
75%	Vmax	63.05	479.95	96.966	63.02	480	96.933	62.99	479.91	96.968	62.99	479.89	96.918	63.01	479.85	96.926
100%	Vmax	85.3	479.98	96.321	85.3	480.02	96.279	85.4	480.03	96.286	85.4	480	96.26	85.4	480.03	96.274

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)
10%	Vmin															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
30%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															
50%	Vmax															
75%	Vmax															
100%	Vmax															