Manufacturer: Solectria Renewables, LLC

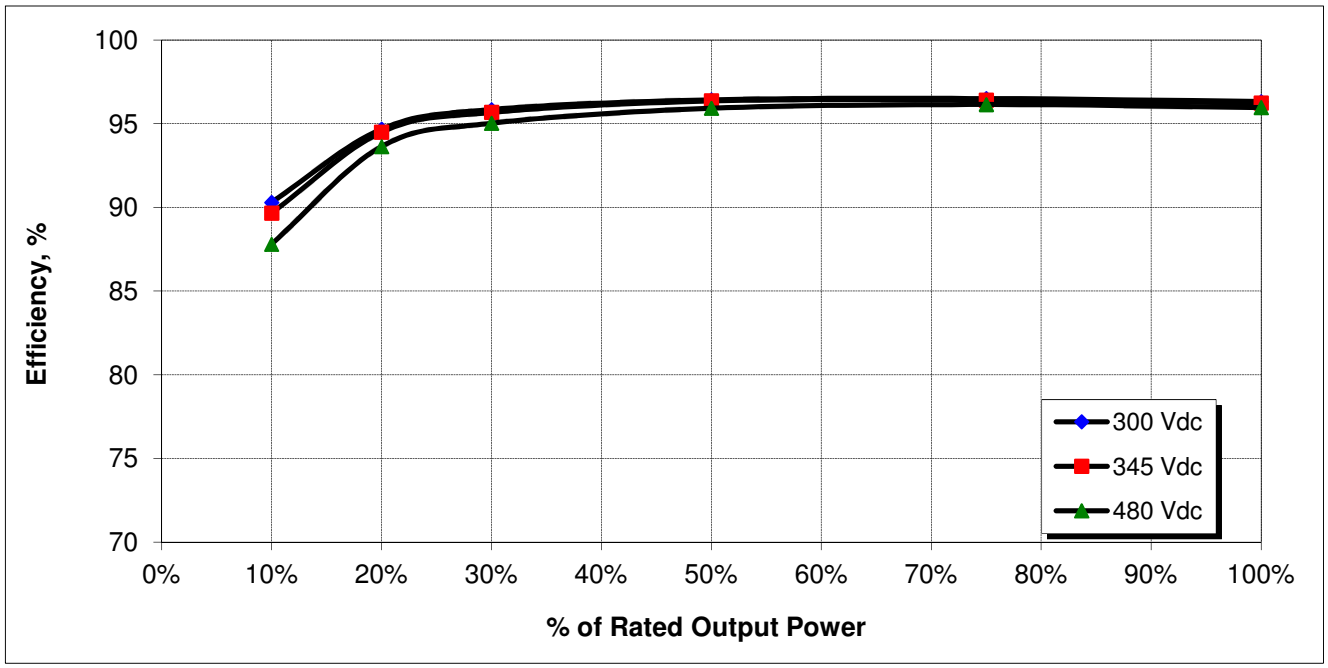
Model #: PVI-50-480

Rated Maximum Continuous Output Power: 50.00 kW Night Tare Loss: -2.85 W

Vmin: 300 Vdc Vnom: 345 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		5.00	10.00	15.00	25.00	37.50	50.00	Wtd
Vmin	300	90.3	94.7	95.8	96.4	96.5	96.3	96.1
Vnom	345	89.7	94.5	95.7	96.4	96.4	96.2	95.9
Vmax	480	87.8	93.6	95.0	95.9	96.1	96.0	95.5

CEC Efficiency = 96.0%



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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	4.5167	300.64	90.088	4.526	300.67	90.108	4.553	300.71	90.631	4.534	300.68	90.303	4.532	300.71	90.353
20%	Vmin	9.832	300.59	94.658	9.853	300.58	94.65	9.867	300.63	94.632	9.856	300.65	94.688	9.863	300.62	94.687
30%	Vmin	15.323	300.6	95.943	15.32	300.68	95.829	15.33	300.74	95.785	15.32	300.75	95.84	15.29	300.71	95.788
50%	Vmin	24.445	300.75	96.445	24.47	300.71	96.373	24.49	300.69	96.424	24.5	300.7	96.459	24.51	300.74	96.392
75%	Vmin	36.582	300.77	96.53	36.42	300.71	96.5	36.55	300.77	96.497	36.6	300.76	96.478	36.48	300.74	96.465
100%	Vmin	48.598	300.82	96.328	48.78	300.82	96.326	48.53	300.84	96.333	48.53	300.87	96.312	49.02	300.81	96.287
10%	Vnom	4.4952	344.94	89.532	4.489	344.93	89.597	4.5	344.98	89.848	4.509	345	89.755	4.503	344.99	89.546
20%	Vnom	10.15	345.03	94.536	10.17	345.04	94.392	10.16	345.01	94.572	10.17	345.03	94.489	10.19	345.02	94.487
30%	Vnom	15.493	345.01	95.634	15.47	345.07	95.7	15.47	345.08	95.682	15.44	345.04	95.667	15.45	345.1	95.707
50%	Vnom	25.227	345.1	96.354	25.25	345.02	96.368	25.24	345.05	96.37	25.23	345.07	96.363	25.2	345.09	96.352
75%	Vnom	36.397	345.22	96.457	36.43	345.22	96.399	36.42	345.23	96.405	36.45	345.18	96.418	36.45	345.15	96.389
100%	Vnom	50.752	345.26	96.232	50.79	345.23	96.256	50.68	345.2	96.258	50.75	345.25	96.186	50.7	345.26	96.257
10%	Vmax	4.4326	481.01	87.741	4.429	481.02	87.636	4.427	480.98	87.771	4.427	480.99	87.942	4.439	481.02	87.904
20%	Vmax	10.113	481.07	93.668	10.14	481.06	93.68	10.13	481.07	93.643	10.15	481.04	93.489	10.14	481.02	93.68
30%	Vmax	15.434	481.07	95.083	15.44	481.07	95.11	15.48	481.13	94.957	15.47	481.13	95.012	15.47	481.1	94.975
50%	Vmax	25.384	481.18	95.845	25.31	481.14	95.889	25.41	481.19	95.93	25.41	481.18	95.932	25.35	481.17	96.005
75%	Vmax	38.458	481.25	96.127	38.47	481.27	96.092	38.46	481.24	96.221	38.47	481.25	96.083	38.47	481.28	96.199
100%	Vmax	50.634	481.42	95.998	50.63	481.41	95.93	50.63	481.41	95.998	50.59	481.4	95.959	50.59	481.36	95.942

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															