Manufacturer: Solectria Renewables, LLC

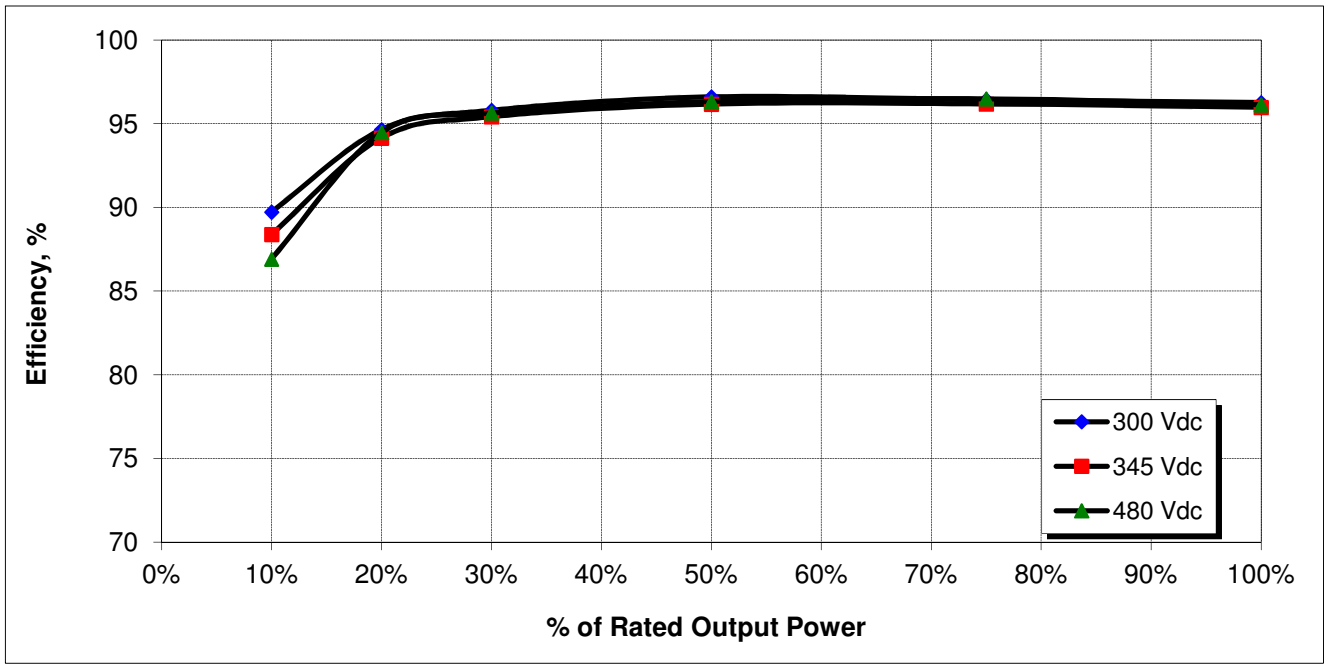
Model #: PVI-85-208

Rated Maximum Continuous Output Power: 85.00 kW Night Tare Loss: -1.00 W

Vmin: 300 Vdc Vnom: 345 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	89.7	94.6	95.8	96.6	96.4	96.3	96.0
Vnom	345	88.4	94.1	95.4	96.2	96.2	96.0	95.7
Vmax	480	86.9	94.5	95.6	96.3	96.5	96.1	95.8

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	7.425	299.65	89.871	7.427	299.65	89.677	7.425	299.63	89.62	7.434	299.64	89.722	7.437	299.64	89.716
20%	Vmin	17.672	299.64	94.675	17.68	299.67	94.647	17.67	299.68	94.598	17.66	299.62	94.599	17.67	299.66	94.669
30%	Vmin	26.895	299.77	95.791	26.88	299.65	95.772	26.91	299.65	95.814	26.92	299.76	95.784	26.9	299.71	95.803
50%	Vmin	44.936	299.92	96.598	44.91	299.58	96.59	44.94	299.76	96.583	45.01	299.92	96.596	44.91	299.58	96.599
75%	Vmin	62.325	300.03	96.416	62.58	299.86	96.427	62.38	299.21	96.422	62.25	300.14	96.421	62.41	299.76	96.412
100%	Vmin	84.944	299.8	96.267	85.09	299.75	96.272	85.61	301.52	96.249	85.41	301.44	96.234	85.36	300.55	96.246
10%	Vnom	7.502	345.88	88.506	7.469	345.76	88.326	7.468	345.72	88.383	7.468	345.95	88.398	7.464	345.72	88.312
20%	Vnom	17.872	345.71	94.16	17.89	346	94.112	17.87	346.02	94.138	17.9	345.79	94.137	17.89	345.77	94.162
30%	Vnom	26.515	345.92	95.388	26.55	345.9	95.393	26.57	345.78	95.407	26.56	345.86	95.393	26.46	346.08	95.44
50%	Vnom	45.466	346.55	96.219	45.46	346.26	96.12	45.44	345.82	96.203	45.41	345.84	96.161	45.48	346.29	96.127
75%	Vnom	62.218	346.63	96.105	62.23	345.5	96.239	62.7	346.13	96.171	62.53	346.81	96.14	62.35	345.42	96.19
100%	Vnom	84.39	347.38	95.96	84.59	346.45	95.966	84.49	344.89	95.968	85.14	344.64	95.948	84.85	345.83	95.956
10%	Vmax	6.692	478.6	86.359	6.748	478.84	87.188	6.697	478.81	87.019	6.68	478.63	87.019	6.681	478.78	86.968
20%	Vmax	17.734	478.46	94.401	17.85	478.68	94.562	17.85	478.69	94.4	17.81	478.92	94.402	17.83	478.99	94.591
30%	Vmax	26.76	478.76	95.654	26.78	479.17	95.661	26.75	478.96	95.602	26.79	478.4	95.775	26.83	478.65	95.483
50%	Vmax	47.006	478.94	96.22	46.89	479.77	96.251	47.03	479	96.197	47.07	477.15	96.466	47.01	477.29	96.473
75%	Vmax	63.221	476.35	96.422	63.59	478.76	96.571	63.75	480.28	96.521	63.56	478.5	96.385	63.4	475.96	96.528
100%	Vmax	85.161	475.16	96.141	85.24	475.02	96.052	85.93	477.94	96.167	85.54	480.37	96.146	85.24	478.37	96.135

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															