Manufacturer: Solectria Renewables, LLC.

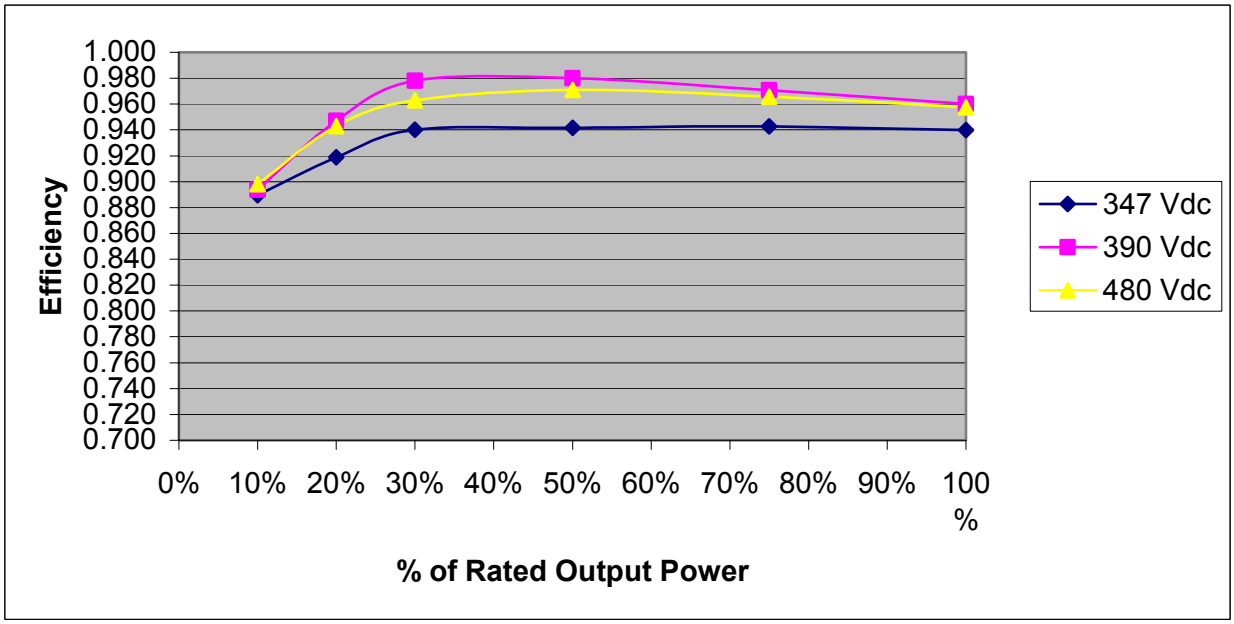
Model #: PVI 90kW-480VAC

Rated Maximum Continuous Output Power: 95.32 kW Night Tare Loss: <1 W

Vmin: 347 Vdc Vnom: 390 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		9.53	19.06	28.60	47.66	71.49	95.32	Wtd
Vmin	347	0.890	0.919	0.940	0.942	0.943	0.940	93.9%
Vnom	390	0.894	0.947	0.978	0.980	0.971	0.960	96.9%
Vmax	480	0.898	0.943	0.963	0.971	0.966	0.957	96.2%

CEC Efficiency = 95.5%



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)	(%)	(W)	(Vdc)	(%)
10%	Vmin	8.9	348.6	88.3%	8.8	348.6	89.0%	8.9	348.5	89.2%	8.8	348.6	89.1%	8.8	348.7	89.1%
20%	Vmin	17.7	348.1	92.1%	17.5	347.1	92.0%	17.4	347.6	91.8%	17.7	348.2	91.8%	17.6	348.2	91.8%
30%	Vmin	29.8	344.9	94.0%	29.9	344.5	94.0%	29.6	345.5	94.0%	29.8	346.3	94.0%	29.9	344.3	94.0%
50%	Vmin	43.3	347.9	94.3%	43.7	348.3	94.3%	43.7	348.7	94.2%	43.6	349.1	94.1%	43.2	349.8	94.0%
75%	Vmin	68.1	348.6	94.3%	68.0	347.9	94.3%	68.4	348.9	94.3%	67.2	349.1	94.3%	68.4	349.2	94.3%
100%	Vmin	91.0	350.6	94.0%	91.9	350.4	94.0%	91.7	349.2	94.0%	91.7	350.7	94.0%	91.6	349.4	94.0%
10%	Vnom	7.6	388.5	88.1%	7.6	389.7	87.2%	7.6	388.4	87.2%	7.9	389.9	92.3%	7.9	389.2	92.1%
20%	Vnom	17.4	388.7	94.9%	17.5	388.4	94.7%	17.6	388.3	94.7%	17.8	388.7	94.7%	17.7	390.0	94.6%
30%	Vnom	29.8	389.0	97.3%	29.9	388.3	97.7%	30.4	389.2	97.8%	30.0	389.3	97.9%	30.2	388.2	98.2%
50%	Vnom	44.5	390.1	98.1%	44.3	388.5	98.1%	44.4	389.2	98.0%	44.3	388.7	98.0%	44.3	389.4	98.0%
75%	Vnom	68.4	388.5	97.2%	68.9	388.4	97.0%	68.6	389.8	97.0%	68.7	389.6	97.0%	68.9	389.4	97.0%
100%	Vnom	91.3	387.5	96.1%	92.0	388.7	96.0%	92.0	388.3	96.0%	92.2	388.9	96.0%	91.2	388.6	96.0%
10%	Vmax	8.7	479.9	90.0%	8.8	481.4	90.0%	8.8	481.6	90.0%	8.9	481.3	89.9%	8.6	481.4	89.3%
20%	Vmax	17.9	481.6	94.8%	17.6	480.4	94.7%	17.7	481.6	94.1%	17.8	480.4	94.0%	17.6	480.1	93.9%
30%	Vmax	29.1	481.5	96.6%	29.4	481.4	96.3%	29.6	481.2	96.3%	29.3	480.0	96.1%	29.5	480.8	96.1%
50%	Vmax	44.1	479.8	97.2%	43.8	481.3	97.1%	43.7	481.4	97.1%	44.1	479.9	97.0%	43.6	481.5	97.0%
75%	Vmax	67.8	481.2	96.6%	66.9	480.3	96.6%	66.8	480.4	96.6%	67.2	481.4	96.5%	67.8	481.4	96.5%
100%	Vmax	92.0	479.9	95.8%	92.3	479.6	95.7%	92.2	480.8	95.7%	91.7	480.9	95.7%	92.0	480.0	95.7%

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	8.9	348.7	89.3%	8.9	348.7	89.4%	8.8	348.6	89.4%	8.8	348.6	89.5%	8.8	348.6	89.5%
20%	Vmin	17.6	348.2	91.8%	17.6	348.9	91.7%	17.5	347.2	91.7%	17.8	348.3	91.7%	17.8	348.2	91.7%
30%	Vmin	29.6	347.2	94.0%	29.8	345.8	94.0%	29.8	346.4	94.0%	29.7	346.4	93.9%	29.6	345.7	93.2%
50%	Vmin	43.7	347.4	94.0%	43.6	347.7	94.0%	43.3	348.0	94.0%	43.7	347.3	94.0%	43.5	349.6	93.9%
75%	Vmin	68.2	349.1	94.3%	68.4	347.5	94.3%	68.3	348.4	94.2%	67.9	349.2	94.2%	68.2	347.5	94.2%
100%	Vmin	91.9	349.1	94.0%	91.0	349.5	94.0%	91.7	350.2	94.0%	91.8	350.5	94.0%	91.9	348.8	93.9%
10%	Vnom	8.0	388.4	92.0%	8.0	388.7	91.2%	8.0	389.9	92.9%	7.9	390.1	92.8%	7.9	388.5	92.8%
20%	Vnom	17.4	388.4	94.6%	17.7	389.7	94.6%	17.6	388.4	94.6%	17.6	389.1	94.5%	17.6	389.7	94.5%
30%	Vnom	30.2	388.6	98.2%	30.3	389.7	98.2%	30.3	390.0	98.2%	30.2	389.0	98.2%	30.4	388.8	98.2%
50%	Vnom	44.1	388.2	98.0%	44.3	389.1	97.9%	44.1	388.5	97.9%	44.6	389.0	97.9%	44.5	389.9	97.9%
75%	Vnom	69.0	388.5	97.0%	68.6	388.2	97.0%	68.2	389.4	96.9%	68.8	389.2	96.9%	69.0	389.4	96.9%
100%	Vnom	91.9	388.0	96.0%	91.9	388.5	96.0%	92.1	388.7	96.0%	92.2	387.4	96.0%	91.9	388.0	95.9%
10%	Vmax	8.3	480.4	87.7%	8.3	481.0	86.8%	8.4	481.6	86.9%	8.3	480.1	86.7%	8.3	480.8	86.6%
20%	Vmax	17.9	481.9	93.9%	17.9	480.3	93.9%	17.7	481.8	93.8%	17.9	480.4	93.8%	17.8	481.2	93.8%
30%	Vmax	29.4	481.2	96.0%	29.6	481.2	96.0%	29.2	481.0	96.0%	29.3	480.4	96.0%	29.4	481.0	96.0%
50%	Vmax	43.9	480.1	97.0%	43.8	481.6	97.0%	43.8	480.4	97.0%	43.6	480.8	96.9%	43.9	480.7	96.9%
75%	Vmax	67.8	481.4	96.5%	67.4	481.5	96.5%	67.8	480.3	96.5%	67.8	481.5	96.5%	67.1	481.6	96.5%
100%	Vmax	90.9	480.6	95.7%	91.7	479.5	95.7%	91.1	480.7	95.7%	91.8	480.7	95.6%	91.7	479.8	95.6%