Manufacturer: Sustainable Energy Systems

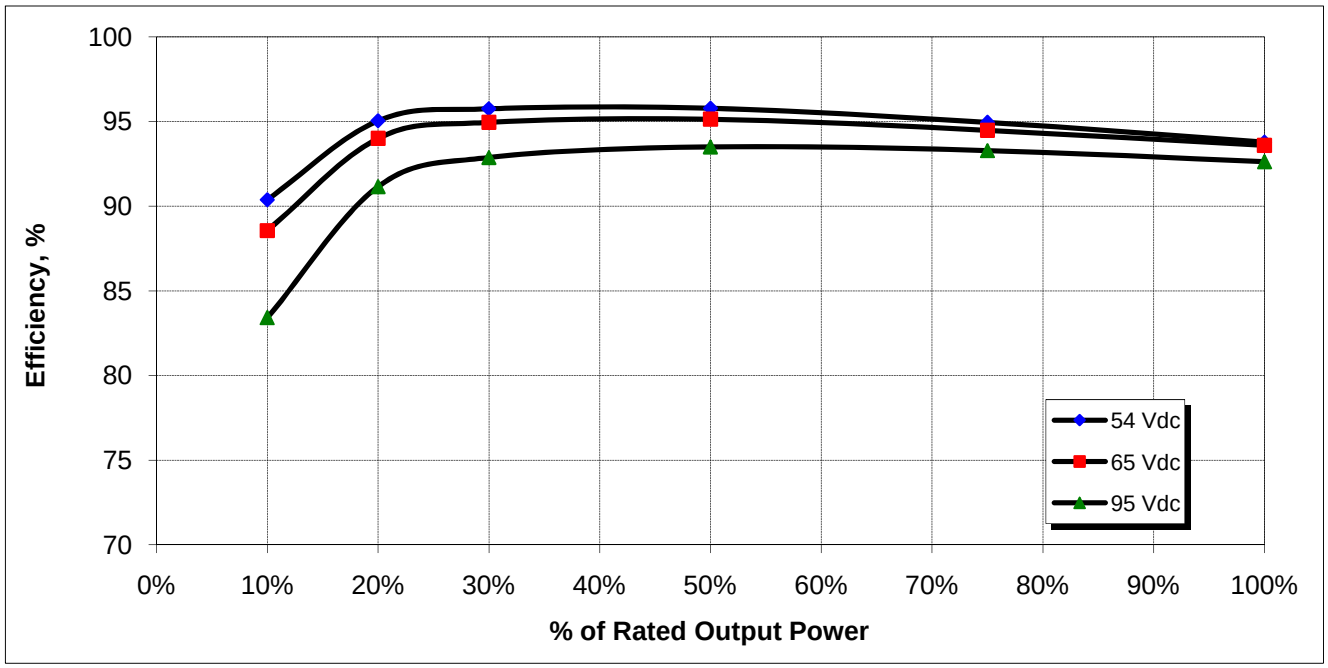
Model #: Sunergy ELV 208

Rated Maximum Continuous Output Power: 5.00 kW Night Tare Loss: -0.27 W

Vmin: 54 Vdc Vnom: 65 Vdc Vmax: 95 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.50	1.00	1.50	2.50	3.75	5.00	Wtd
Vmin	54	90.4	95.0	95.8	95.8	95.0	93.8	95.0
Vnom	65	88.6	94.0	95.0	95.1	94.5	93.6	94.4
Vmax	95	83.4	91.2	92.9	93.5	93.3	92.6	92.7

CEC Efficiency = 94.0%



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)	(%)	(W)	(Vdc)	(%)
10%	Vmin	468.4	54	90.360	468.6	54	90.370	468.5	54	90.360	468.2	54	90.340	468	54	90.410
20%	Vmin	1078.3	53.9	95.030	1079	53.9	95.030	1078	53.9	95.020	1079	53.9	95.050	1077	53.9	95.070
30%	Vmin	1596.3	54.1	95.750	1599	54.1	95.770	1600	54.1	95.760	1600	54.1	95.760	1600	54.1	95.760
50%	Vmin	2264.7	54	95.780	2265	54	95.800	2264	54	95.810	2261	54	95.790	2262	54	95.790
75%	Vmin	3536.6	54	94.960	3535	54.1	94.960	3535	54.1	94.960	3534	54.1	94.950	3539	54	94.950
100%	Vmin	4798.4	53.9	93.810	4800	53.9	93.800	4801	53.8	93.790	4802	53.8	93.780	4800	53.8	93.780
10%	Vnom	472.1	64.8	88.640	472	64.8	88.600	471.8	64.8	88.610	472	64.8	88.590	472	64.8	88.560
20%	Vnom	1080.6	64.9	94.010	1080	64.9	94.000	1079	64.9	94.000	1079	64.9	94.000	1079	64.9	94.010
30%	Vnom	1601.5	64.9	94.980	1600	64.9	94.960	1599	64.9	94.940	1600	64.9	94.950	1600	64.9	94.960
50%	Vnom	2272.2	64.9	95.130	2274	64.9	95.140	2276	64.9	95.140	2276	64.9	95.150	2276	64.9	95.140
75%	Vnom	3565.6	64.9	94.490	3565	64.9	94.490	3567	64.9	94.480	3567	64.9	94.480	3563	64.9	94.480
100%	Vnom	4810.1	64.7	93.610	4811	64.7	93.600	4813	64.7	93.600	4811	64.7	93.590	4812	64.7	93.580
10%	Vmax	471.1	94.7	83.450	470.6	94.7	83.420	470.8	94.7	83.460	471	94.7	83.380	470.5	94.7	83.380
20%	Vmax	1069	94.7	91.150	1070	94.7	91.150	1070	94.7	91.180	1069	94.7	91.180	1069	94.7	91.190
30%	Vmax	1614.8	95	92.860	1614	95	92.890	1615	95	92.880	1615	95	92.860	1615	95	92.880
50%	Vmax	2299.9	94.7	93.500	2300	94.7	93.510	2300	94.7	93.510	2300	94.7	93.500	2298	94.7	93.500
75%	Vmax	3543.2	95	93.270	3543	95	93.280	3543	95	93.280	3542	95	93.300	3538	95	93.280
100%	Vmax	4799	94.7	92.650	4798	94.7	92.640	4798	94.7	92.640	4799	94.7	92.630	4800	94.7	92.620

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	468.3	54	90.420	468	54	90.430									
20%	Vmin	1076.4	53.9	95.070	1076	53.9	95.070									
30%	Vmin	1600.1	54.1	95.760	1600	54.1	95.760									
50%	Vmin	2261.5	54	95.790	2262	54	95.780									
75%	Vmin	3541.3	54	94.960	3543	54	94.960									
100%	Vmin	4801.3	53.8	93.770	4802	53.8	93.770									
10%	Vnom	471.9	64.8	88.570	459	64.8	88.340									
20%	Vnom	1079	64.9	94.000	1080	64.9	94.000									
30%	Vnom	1600.6	64.9	94.930	1601	64.9	94.930									
50%	Vnom	2276.7	64.9	95.130	2277	64.9	95.150									
75%	Vnom	3560.4	64.9	94.470	3560	64.9	94.460									
100%	Vnom	4813.3	64.7	93.570	4811	64.7	93.560									
10%	Vmax	470.3	94.7	83.350	469.9	94.7	83.460									
20%	Vmax	1059	94.7	91.120	1052	94.7	91.080									
30%	Vmax	1614.8	95	92.880	1615	95	92.890									
50%	Vmax	2295.8	94.7	93.500	2296	94.7	93.510									
75%	Vmax	3539	95	93.290	3541	95	93.300									
100%	Vmax	4799.3	94.7	92.610	4798	94.7	92.610									