Manufacturer: Sustainable Energy Technologies

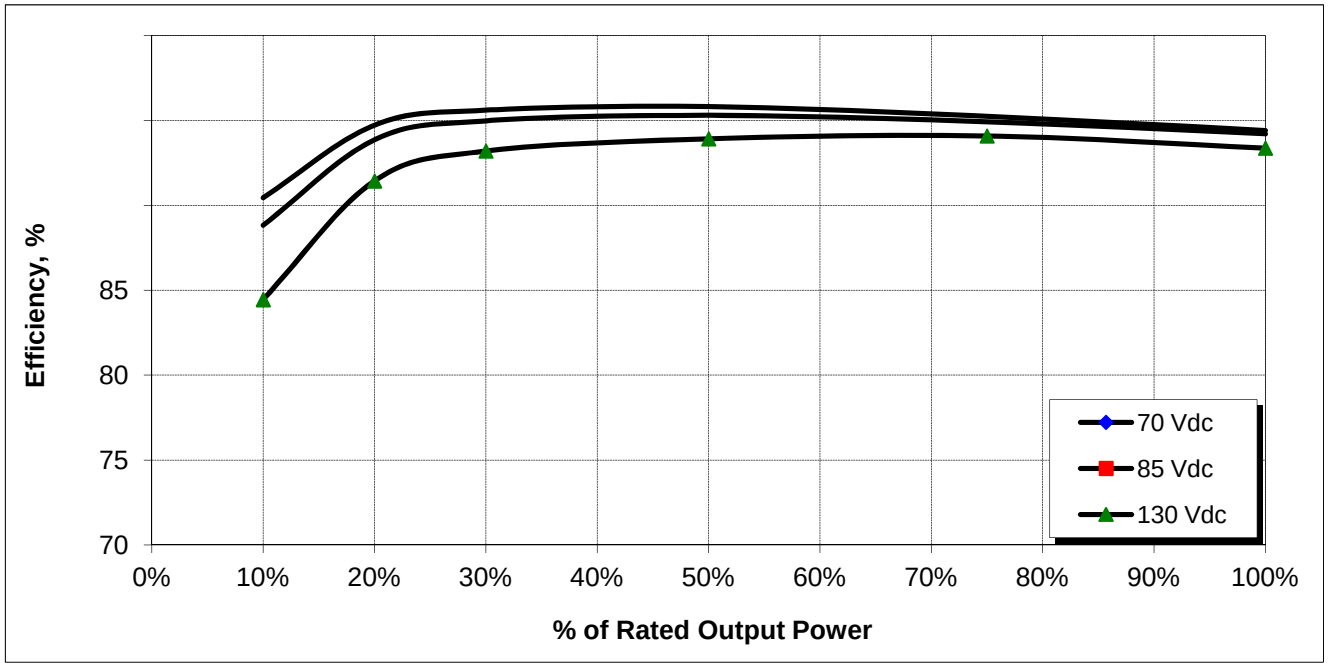
Model #: Sunergy LV 208

Rated Maximum Continuous Output Power @25°C: 5.000 kW Night Tare Loss: -0.25 W
Rated Maximum Continuous Output Power @40°C: 5.000 kW Night Tare Loss: -0.03 W

Vmin: 70 Vdc Vnom: 85 Vdc Vmax: 130 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	70	90.4	94.7	95.6	95.8	95.2	94.4	95.1
Vnom	85	88.8	93.9	95.0	95.3	94.9	94.2	94.7
Vmax	130	84.4	91.4	93.2	93.9	94.1	93.4	93.4

CEC Efficiency = 94.5%



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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	497.37	70.1	90.430	497.3	70.1	90.424	497.5	70.1	90.448	497.6	70.1	90.473	497.3	70.107	90.424
20%	Vmin	1097	70.113	94.732	1097	70.12	94.692	1097	70.117	94.684	1097	70.12	94.702	1097	70.127	94.704
30%	Vmin	1622.5	70.15	95.610	1622	70.143	95.602	1622	70.14	95.600	1623	70.15	95.574	1622	70.143	95.604
50%	Vmin	2255	70.157	95.793	2255	70.137	95.806	2255	70.147	95.786	2255	70.14	95.819	2255	70.14	95.806
75%	Vmin	3506.1	70.113	95.239	3505	70.107	95.235	3505	70.103	95.240	3506	70.11	95.228	3506	70.107	95.237
100%	Vmin	4754.3	70.11	94.407	4754	70.1	94.413	4754	70.097	94.400	4755	70.1	94.401	4755	70.1	94.401
10%	Vnom	498.07	82.65	88.940	496.9	82.613	88.897	497	82.61	88.856	497.1	82.61	88.762	497.1	82.61	88.762
20%	Vnom	1097.3	82.597	93.864	1097	82.59	93.852	1097	82.59	93.844	1097	82.58	93.861	1097	82.58	93.841
30%	Vnom	1623.2	82.62	94.980	1623	82.62	94.970	1623	82.62	94.972	1623	82.62	94.964	1623	82.61	94.980
50%	Vnom	2254	82.613	95.307	2255	82.59	95.299	2255	82.587	95.280	2255	82.593	95.300	2254	82.6	95.320
75%	Vnom	3503.8	82.547	94.929	3505	82.58	94.922	3504	82.58	94.918	3505	82.59	94.923	3504	82.583	94.924
100%	Vnom	4753.3	82.567	94.219	4755	82.57	94.226	4755	82.58	94.214	4755	82.58	94.214	4755	82.573	94.208
10%	Vmax	497.57	117.78	84.477	497.6	117.79	84.477	497.4	117.79	84.454	497.5	117.79	84.460	497.5	117.79	84.364
20%	Vmax	1096.2	117.76	91.398	1096	117.76	91.415	1096	117.76	91.409	1096	117.76	91.440	1097	117.76	91.468
30%	Vmax	1622.4	117.76	93.208	1622	117.75	93.212	1623	117.75	93.181	1623	117.75	93.176	1623	117.74	93.202
50%	Vmax	2253.8	117.76	93.882	2254	117.76	93.899	2254	117.77	93.919	2254	117.78	93.932	2254	117.79	93.926
75%	Vmax	3504.4	117.76	94.085	3504	117.75	94.090	3504	117.74	94.094	3504	117.75	94.093	3504	117.75	94.079
100%	Vmax	4754.3	117.74	93.387	4754	117.74	93.380	4754	117.74	93.368	4753	117.73	93.367	4753	117.74	93.349

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	497.37	70.1	90.430	497.3	70.097	90.424									
20%	Vmin	1097.4	70.13	94.737	1097	70.127	94.741									
30%	Vmin	1622.4	70.147	95.565	1623	70.14	95.597									
50%	Vmin	2254.3	70.13	95.804	2255	70.13	95.814									
75%	Vmin	3506.1	70.117	95.232	3506	70.12	95.222									
100%	Vmin	4755	70.1	94.408	4754	70.1	94.388									
10%	Vnom	497	82.607	88.750	497.1	82.61	88.768									
20%	Vnom	1097.1	82.587	93.849	1097	82.59	93.899									
30%	Vnom	1623.2	82.613	94.978	1623	82.62	94.987									
50%	Vnom	2253.9	82.593	95.304	2255	82.59	95.290									
75%	Vnom	3504.2	82.58	94.913	3505	82.583	94.926									
100%	Vnom	4754	82.57	94.195	4753	82.57	94.181									
10%	Vmax	497.43	117.79	84.454	497.5	117.79	84.460									
20%	Vmax	1096.6	117.76	91.460	1097	117.76	91.457									
30%	Vmax	1622.8	117.75	93.213	1623	117.76	93.187									
50%	Vmax	2254.6	117.78	93.943	2255	117.78	93.917									
75%	Vmax	3504.6	117.75	94.084	3505	117.75	94.074									
100%	Vmax	4753.3	117.74	93.349	4754	117.74	93.362									