Manufacturer: HiSEL Power Corporation

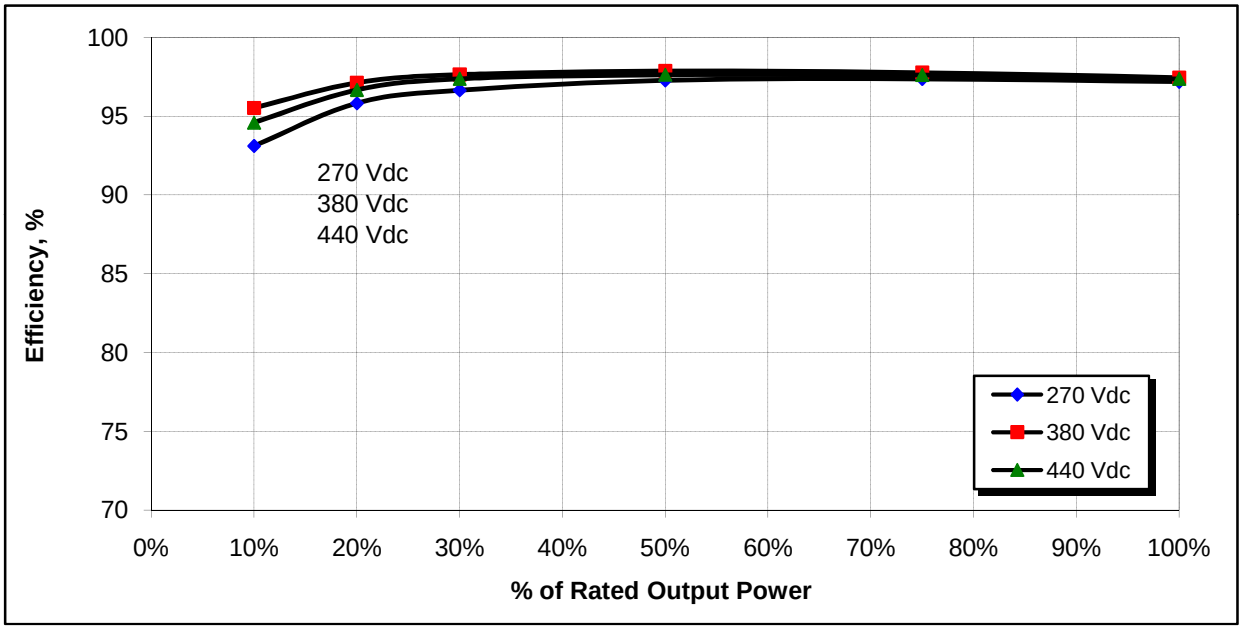
Model #: HiSEL-K 4000 (240 Vac)

Rated Maximum Continuous Output Power: 4.00 kW Night Tare Loss: 0.11 W

Vmin: 270 Vdc Vnom: 380 Vdc Vmax: 440 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.40	0.80	1.20	2.00	3.00	4.00	Wtd
Vmin	270	93.1	95.8	96.6	97.3	97.4	97.2	97.0
Vnom	380	95.5	97.1	97.6	97.9	97.8	97.5	97.6
Vmax	440	94.6	96.7	97.4	97.6	97.6	97.4	97.4

CEC Efficiency = 97.5%



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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	0.387	283.37	93.095	0.388	278.89	93.130	0.387	277.85	93.023	0.387	269.23	93.133	0.387	272.71	93.199
20%	Vmin	0.809	277.63	95.843	0.805	283.74	95.794	0.810	277.04	95.995	0.807	278.22	95.634	0.808	279.68	95.851
30%	Vmin	1.200	269.47	96.447	1.204	273.51	96.626	1.204	278.36	96.685	1.208	274.62	96.805	1.204	274.18	96.657
50%	Vmin	2.013	273.23	97.314	2.015	274.06	97.305	2.013	276.94	97.328	2.008	272.54	97.212	2.012	275.7	97.211
75%	Vmin	2.960	274.77	97.354	2.960	275.46	97.334	2.960	273.15	97.360	2.962	273.06	97.445	2.960	272.74	97.347
100%	Vmin	3.987	274.32	97.193	3.983	270.77	97.150	3.983	274.06	97.200	3.983	272.52	97.172	3.982	275.17	97.195
10%	Vnom	0.390	388.66	95.538	0.390	376.75	95.490	0.389	388.42	95.494	0.390	378.25	95.424	0.390	383.29	95.694
20%	Vnom	0.806	378.3	97.232	0.806	384.03	97.092	0.805	383.9	96.994	0.805	383.06	97.008	0.806	381.15	97.310
30%	Vnom	1.209	382.06	97.733	1.206	387.62	97.543	1.208	386.79	97.707	1.207	385.62	97.601	1.206	383.95	97.634
50%	Vnom	2.023	386.48	97.866	2.025	383.86	97.899	2.025	381.5	97.893	2.023	382.33	97.788	2.027	383.61	97.925
75%	Vnom	3.011	383.07	97.735	3.009	385.06	97.694	3.012	381.43	97.753	3.014	378.59	97.921	3.013	385.77	97.776
100%	Vnom	4.016	382.5	97.417	4.019	383.32	97.459	4.020	383.11	97.464	4.019	381.07	97.429	4.024	380.98	97.500
10%	Vmax	0.383	419.22	94.634	0.386	442.78	94.385	0.385	423.08	94.446	0.386	425.96	94.984	0.384	421.96	94.521
20%	Vmax	0.803	441.98	96.653	0.804	440.54	96.787	0.802	433.96	96.743	0.802	436	96.642	0.800	433.36	96.512
30%	Vmax	1.201	440.27	97.224	1.202	443.24	97.345	1.204	442.83	97.476	1.200	425.82	97.439	1.204	438.71	97.391
50%	Vmax	2.022	435.71	97.627	2.024	433.09	97.743	2.020	441.93	97.585	2.025	438.66	97.701	2.019	437.08	97.479
75%	Vmax	3.012	438.87	97.582	3.008	440.07	97.571	3.009	438.67	97.597	3.013	437.12	97.680	3.011	433.53	97.653
100%	Vmax	4.029	439.2	97.402	4.026	439.64	97.332	4.030	435.01	97.420	4.028	440.09	97.368	4.026	436.17	97.324

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															