Manufacturer: HiSEL Power Corporation

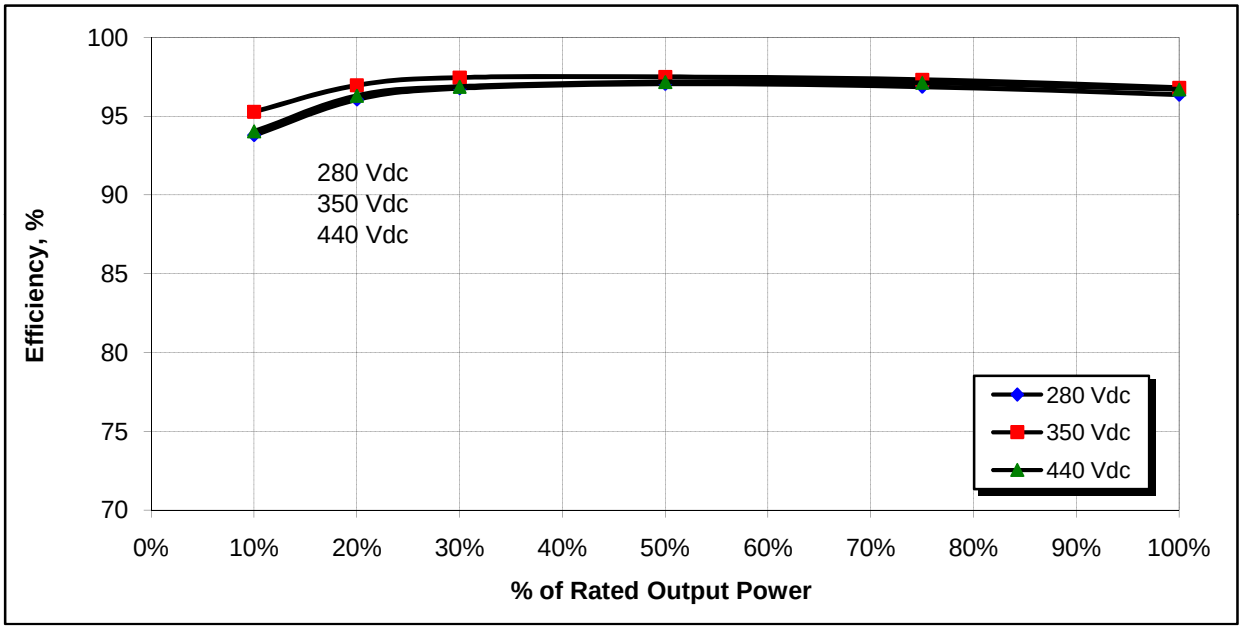
Model #: HiSEL-K 5000 (208 Vac)

Rated Maximum Continuous Output Power: 4.60 kW Night Tare Loss: 0.07 W

Vmin: 280 Vdc Vnom: 350 Vdc Vmax: 440 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.46	0.92	1.38	2.30	3.45	4.60	Wtd
Vmin	280	93.8	96.1	96.8	97.1	96.9	96.4	96.7
Vnom	350	95.3	97.0	97.5	97.5	97.3	96.8	97.2
Vmax	440	94.0	96.3	96.9	97.2	97.1	96.7	96.9

CEC Efficiency = 97.0%



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	0.445	291	93.784	0.446	290.42	93.754	0.445	290.41	93.718	0.446	288.97	93.787	0.446	292.19	93.908
20%	Vmin	0.930	285.66	95.990	0.931	289.51	96.092	0.934	284.99	96.135	0.931	288.78	96.028	0.933	287.11	96.037
30%	Vmin	1.376	287.38	96.700	1.377	288.09	96.734	1.379	285.23	96.776	1.379	284.44	96.774	1.380	286.06	96.861
50%	Vmin	2.315	286.41	97.049	2.314	286.72	97.074	2.313	282.14	96.999	2.314	281.46	97.066	2.315	286.25	97.083
75%	Vmin	3.453	283.05	96.892	3.453	284.42	96.908	3.449	283.48	96.843	3.451	283.22	96.856	3.453	283.17	96.887
100%	Vmin	4.595	283.95	96.344	4.594	282.95	96.336	4.595	284.66	96.384	4.596	284.02	96.373	4.596	282.92	96.372
10%	Vnom	0.454	347.64	95.290	0.457	355.93	95.622	0.444	357.88	95.016	0.450	358.43	95.069	0.456	356.15	95.403
20%	Vnom	0.944	356.01	97.009	0.944	350.74	96.950	0.944	349.36	97.036	0.942	346.74	97.024	0.942	350.87	96.775
30%	Vnom	1.384	350.13	97.434	1.382	355.68	97.379	1.384	351.2	97.406	1.386	350.46	97.559	1.384	348.99	97.473
50%	Vnom	2.315	353.63	97.516	2.314	351.22	97.464	2.317	349.88	97.537	2.317	351.92	97.509	2.315	353.5	97.451
75%	Vnom	3.456	349.25	97.328	3.456	349.39	97.318	3.454	349.77	97.283	3.456	350.77	97.302	3.457	349.07	97.342
100%	Vnom	4.575	350.33	96.833	4.572	352.21	96.799	4.573	350.11	96.791	4.574	348.51	96.814	4.571	347.28	96.807
10%	Vmax	0.449	431.03	94.050	0.449	434.71	94.185	0.449	434.16	94.351	0.446	444.46	93.703	0.447	442.73	93.873
20%	Vmax	0.937	437.62	96.273	0.936	436.83	96.319	0.935	440.42	96.229	0.933	426.4	96.299	0.936	431.55	96.384
30%	Vmax	1.375	442.19	96.857	1.373	441.52	96.849	1.373	430.21	96.874	1.375	438.66	96.885	1.375	433.49	96.921
50%	Vmax	2.308	440.32	97.114	2.308	438	97.170	2.310	436.94	97.226	2.310	437.79	97.247	2.305	438.81	97.116
75%	Vmax	3.475	438.84	97.140	3.473	438.92	97.129	3.470	441.66	97.038	3.475	437.02	97.150	3.473	436.73	97.186
100%	Vmax	4.578	434.7	96.730	4.578	436.19	96.690	4.580	439.08	96.701	4.580	437.63	96.714	4.578	435.19	96.674

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															