Manufacturer: Shanghai Aero-Sharp Electric Technologies Co.Ltd

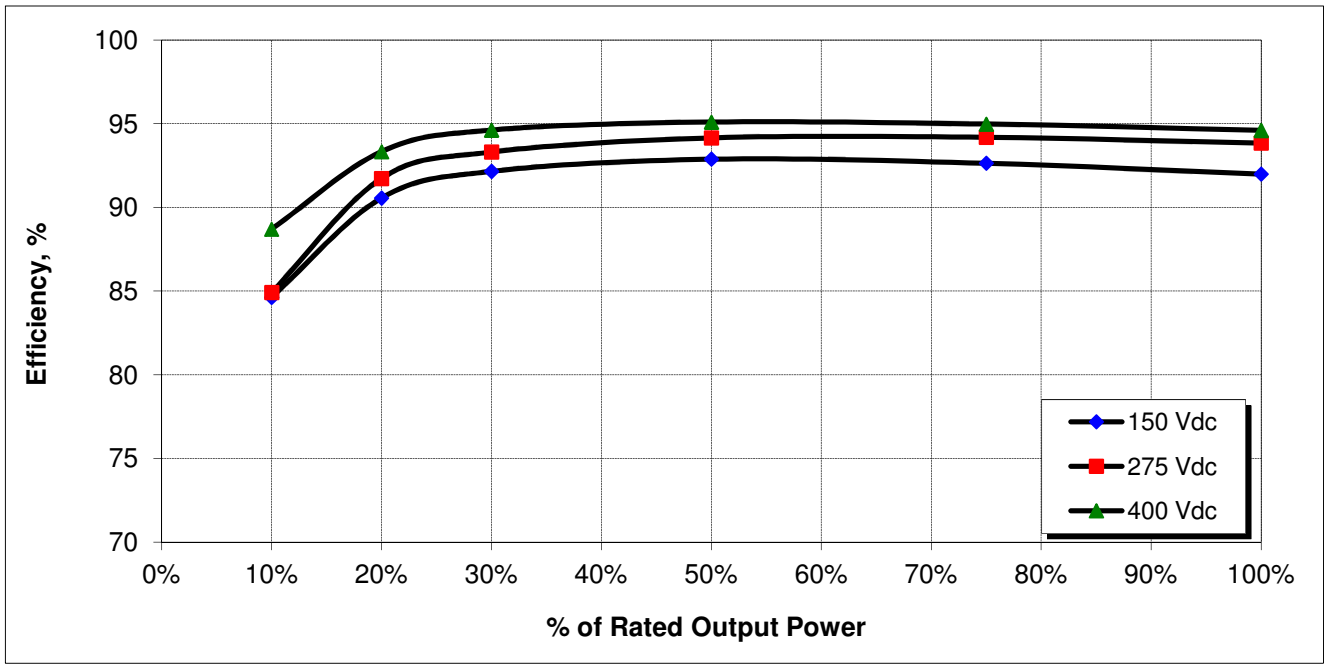
Model #: X01-040L2E1

Rated Maximum Continuous Output Power: 4.01 kW Night Tare Loss: -0.71 W

Vmin: 150 Vdc Vnom: 275 Vdc Vmax: 400 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.40	0.80	1.20	2.01	3.01	4.01	Wtd
Vmin	150	84.6	90.6	92.2	92.9	92.6	92.0	92.2
Vnom	275	84.9	91.7	93.3	94.2	94.2	93.8	93.6
Vmax	400	88.7	93.3	94.6	95.1	95.0	94.6	94.6

CEC Efficiency = 93.5%



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	0.3429	151.5	84.625	0.342	151.28	84.43	0.344	151.57	84.731	0.344	151.27	84.799	0.342	151.39	84.543
20%	Vmin	0.7982	151.87	90.584	0.796	151.44	90.536	0.796	151.46	90.606	0.795	151.32	90.541	0.797	151.7	90.528
30%	Vmin	1.2025	151.66	92.18	1.202	151.63	92.154	1.201	151.65	92.126	1.202	151.65	92.186	1.201	151.61	92.126
50%	Vmin	2.0036	151.83	92.87	2.002	151.64	92.885	2.002	151.71	92.878	2.004	151.78	92.895	2.003	151.71	92.891
75%	Vmin	2.9996	151.96	92.653	2.997	151.83	92.628	3	152.02	92.628	2.996	151.74	92.647	3.001	152.09	92.633
100%	Vmin	3.9772	152.27	92.002	3.974	152.14	91.988	3.973	152.13	91.982	3.97	151.98	91.996	3.972	152.09	91.974
10%	Vnom	0.3365	274.07	84.876	0.336	274.42	84.891	0.337	274.33	84.902	0.337	274.29	84.96	0.337	274.16	84.935
20%	Vnom	0.7934	274.34	91.724	0.793	274.24	91.719	0.794	274.37	91.765	0.794	274.42	91.687	0.793	274.21	91.747
30%	Vnom	1.2035	274.39	93.306	1.203	274.44	93.276	1.204	274.49	93.309	1.204	274.41	93.331	1.203	274.28	93.331
50%	Vnom	2.0161	274.63	94.138	2.017	274.73	94.161	2.02	274.99	94.177	2.015	274.43	94.132	2.017	274.56	94.171
75%	Vnom	3.0251	274.7	94.189	3.024	274.7	94.185	3.024	274.57	94.194	3.024	274.52	94.203	3.024	274.6	94.191
100%	Vnom	4.017	274.54	93.847	4.02	274.71	93.853	4.016	274.57	93.823	4.018	274.58	93.848	4.017	274.6	93.844
10%	Vmax	0.3684	398.55	88.663	0.367	399.64	88.641	0.362	399.47	88.729	0.368	399.63	88.731	0.368	399.56	88.727
20%	Vmax	0.7899	395.94	93.287	0.791	396.42	93.387	0.791	396.08	93.319	0.788	396.08	93.278	0.789	396.33	93.352
30%	Vmax	1.2241	396.12	94.602	1.226	396.07	94.578	1.225	396.13	94.659	1.223	396.01	94.61	1.222	396.14	94.611
50%	Vmax	2.032	396.08	95.111	2.033	396.23	95.064	2.029	395.9	95.048	2.034	396.27	95.122	2.035	396.26	95.1
75%	Vmax	3.0455	396.26	94.979	3.045	396.26	94.953	3.045	396.27	94.963	3.046	396.19	94.988	3.045	396.19	94.959
100%	Vmax	4.0077	396.25	94.609	4.007	396.25	94.613	4.007	396.15	94.601	4.005	396.04	94.581	4.01	396.49	94.6

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															