Manufacturer: Shanghai Aero-Sharp Electric Technologies Co.Ltd

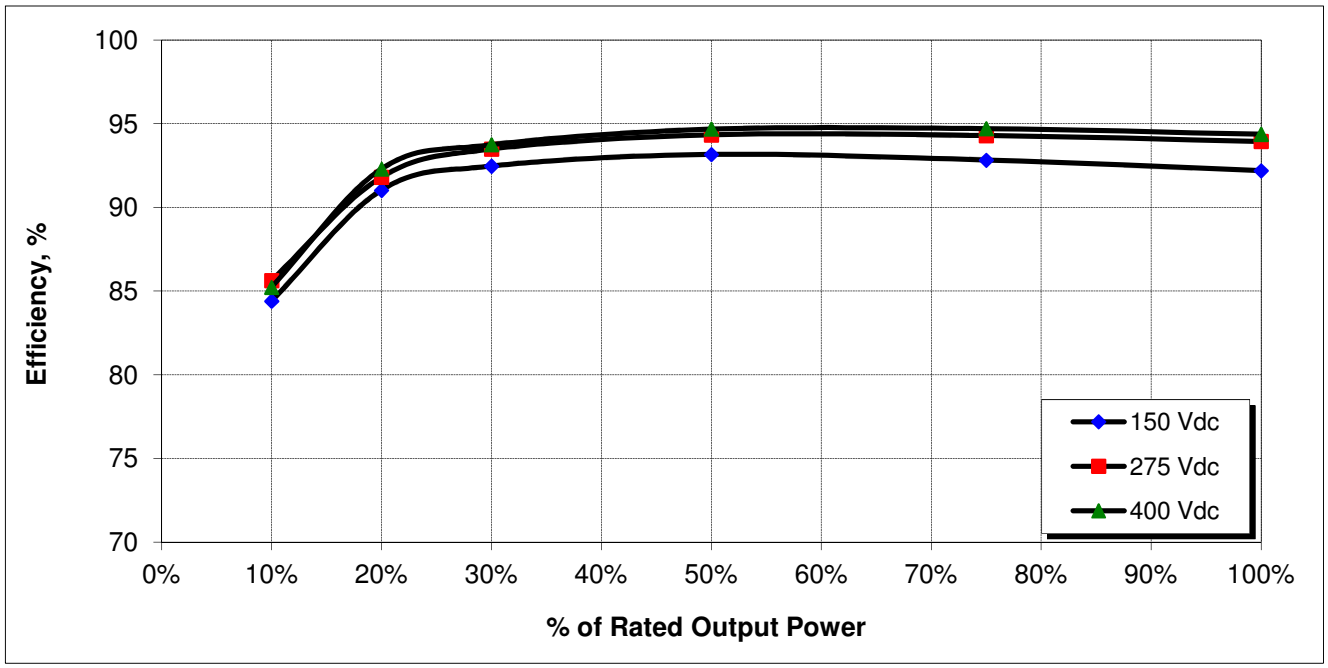
Model #: X01-050L2E1

Rated Maximum Continuous Output Power: 4.99 kW Night Tare Loss: -0.78 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.50	1.00	1.50	2.49	3.74	4.99	Wtd
Vmin	150	84.4	91.0	92.5	93.2	92.8	92.2	92.4
Vnom	275	85.6	91.8	93.5	94.3	94.3	93.9	93.7
Vmax	400	85.2	92.3	93.7	94.7	94.7	94.4	94.1

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	0.4464	151.14	84.769	0.434	151.26	84.555	0.418	151.49	84.219	0.418	151.25	84.257	0.417	151.18	84.187
20%	Vmin	0.9915	151.38	91.024	0.994	151.78	91.008	0.993	151.51	91.009	0.991	151.22	91.002	0.992	151.29	91.068
30%	Vmin	1.4847	151.5	92.452	1.482	151.23	92.448	1.487	151.68	92.506	1.483	151.42	92.419	1.484	151.45	92.478
50%	Vmin	2.4834	151.5	93.175	2.487	151.71	93.16	2.486	151.67	93.176	2.482	151.51	93.139	2.486	151.69	93.145
75%	Vmin	3.719	151.89	92.816	3.719	151.91	92.812	3.723	152.02	92.838	3.718	151.84	92.817	3.723	152.02	92.83
100%	Vmin	4.983	152	92.187	4.989	152.17	92.193	4.986	152.04	92.202	4.983	151.98	92.187	4.988	152.14	92.187
10%	Vnom	0.4323	273.85	85.608	0.434	273.75	85.692	0.433	273.93	85.576	0.433	274.02	85.665	0.433	273.86	85.604
20%	Vnom	0.9815	274.27	91.797	0.981	274.01	91.775	0.982	273.99	91.829	0.981	274.01	91.834	0.981	274.01	91.765
30%	Vnom	1.5093	273.83	93.477	1.511	274.08	93.485	1.511	273.96	93.512	1.511	274.11	93.488	1.51	273.91	93.442
50%	Vnom	2.5352	274.3	94.338	2.532	274.02	94.335	2.535	274.36	94.349	2.534	274.25	94.309	2.534	274.22	94.329
75%	Vnom	3.7974	274.16	94.273	3.8	274.26	94.298	3.798	274.09	94.281	3.799	274.18	94.296	3.799	274.08	94.306
100%	Vnom	4.9966	274.31	93.934	4.996	274.22	93.943	4.994	274.13	93.949	4.995	274.3	93.928	4.997	274.36	93.929
10%	Vmax	0.4194	395.04	85.29	0.418	395.25	85.245	0.419	395.02	85.201	0.419	395.2	85.203	0.418	395.13	85.197
20%	Vmax	1.0162	395.32	92.327	1.015	395.16	92.275	1.015	395.11	92.267	1.014	395.16	92.329	1.014	395	92.272
30%	Vmax	1.4791	395.16	93.723	1.48	395.14	93.782	1.479	395.18	93.718	1.478	395.21	93.716	1.48	395.05	93.772
50%	Vmax	2.5426	395.28	94.678	2.542	395.12	94.67	2.543	395.29	94.683	2.542	395.1	94.689	2.543	395.34	94.667
75%	Vmax	3.739	395.41	94.68	3.74	395.37	94.69	3.74	395.35	94.713	3.741	395.34	94.726	3.742	395.59	94.715
100%	Vmax	4.991	395.21	94.369	4.995	395.52	94.361	4.994	395.42	94.363	4.996	395.59	94.384	4.998	395.61	94.376

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															