Manufacturer: Jiangsu Zeversolar New Energy Co., Ltd

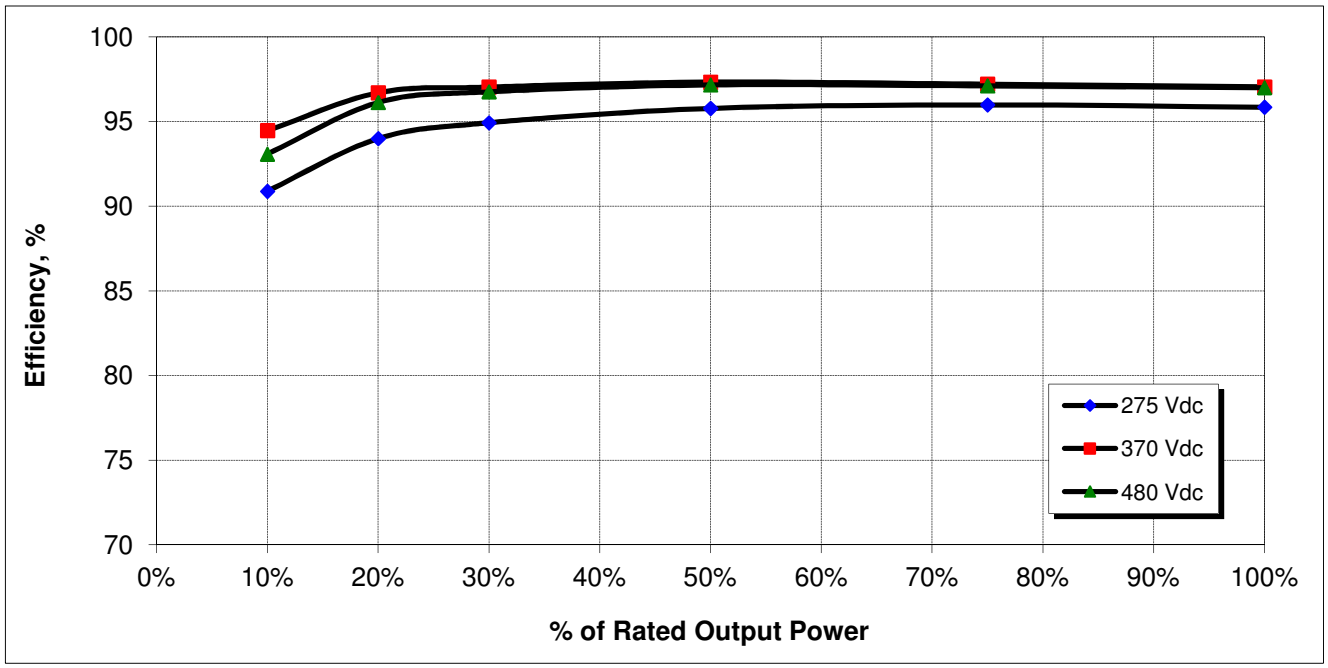
Model #: Evershine TL4000-US-240

Rated Maximum Continuous Output Power: 3.99 kW Night Tare Loss: 0.35 W

Vmin: 275 Vdc Vnom: 370 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.40	0.80	1.20	2.00	2.99	3.99	Wtd
Vmin	275	90.9	94.0	94.9	95.8	96.0	95.8	95.5
Vnom	370	94.5	96.7	97.0	97.3	97.2	97.0	97.1
Vmax	480	93.1	96.1	96.8	97.2	97.1	97.0	96.9

CEC Efficiency = 96.5%



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)	(%)	(W)	(Vdc)	(%)
10%	Vmin	325.87	277.37	90.885	326	276.55	90.861	324.9	278.68	90.905	325.6	277.41	90.879	326.4	276.78	90.887
20%	Vmin	843.96	276.57	93.965	844.2	276.87	93.978	844.4	277.24	93.983	844.2	277.88	94.005	844.3	276.92	93.986
30%	Vmin	1190.6	278.11	94.929	1192	278.58	94.935	1193	277.53	94.910	1192	279.36	94.940	1192	278.88	94.937
50%	Vmin	1893.3	277.91	95.782	1894	277.29	95.785	1894	277.39	95.787	1894	276.4	95.772	1893	278.28	95.800
75%	Vmin	2866.2	278.72	95.996	2869	276.92	95.968	2868	277.73	95.977	2859	279.77	96.009	2864	278.67	95.987
100%	Vmin	3831.8	277.84	95.841	3835	276.12	95.832	3827	277.96	95.859	3826	278.07	95.861	3832	276.62	95.832
10%	Vnom	338.07	367.39	94.166	337.6	372.48	93.997	339.5	372.44	94.509	340.1	372	94.622	339.8	370.75	94.622
20%	Vnom	869.1	367.9	96.685	869.5	367.77	96.709	869.2	367.56	96.685	869.3	367.23	96.688	869.3	368.44	96.701
30%	Vnom	1221.4	366.66	97.041	1220	366.87	97.019	1222	369.64	97.037	1222	369.77	97.020	1221	367.17	97.034
50%	Vnom	1926.2	368.83	97.321	1926	368.89	97.317	1925	369.57	97.329	1925	369.97	97.319	1926	369.45	97.328
75%	Vnom	2854.8	368.4	97.200	2855	368.65	97.200	2855	368.6	97.204	2855	368.63	97.201	2855	368.9	97.205
100%	Vnom	3833.8	368.34	97.040	3835	367.58	97.052	3835	367.89	97.051	3835	368.07	97.036	3834	368.87	97.047
10%	Vmax	334.64	474.51	93.121	334.8	472.28	93.128	334.2	472.23	93.016	334.8	473.29	93.204	333.3	473.97	92.909
20%	Vmax	864.36	472.58	96.086	865.3	472.73	96.179	864.2	473.22	96.102	865	474.41	96.177	863.3	476.97	96.106
30%	Vmax	1217.2	471.94	96.755	1217	472.36	96.754	1216	477.09	96.742	1217	474	96.769	1217	475.09	96.743
50%	Vmax	1920.1	472.96	97.178	1919	474.27	97.134	1920	472.01	97.194	1920	473.84	97.173	1921	472.22	97.175
75%	Vmax	2913.2	471.77	97.118	2913	472.01	97.111	2912	473.38	97.104	2912	472.95	97.110	2912	472.36	97.106
100%	Vmax	3838.5	473.02	96.999	3839	471.78	97.008	3839	472.21	97.011	3838	474.03	97.006	3838	473.06	97.002

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	326.14	276.32	90.861	326.2	277.8	90.904									
20%	Vmin	844.36	278.21	94.010	843.8	277.82	94.006									
30%	Vmin	1192.1	279.43	94.957	1193	276.53	94.905									
50%	Vmin	1893.2	277.6	95.765	1894	277.43	95.779									
75%	Vmin	2864.9	278.42	95.994	2864	279.13	95.996									
100%	Vmin	3832.8	277.35	95.848	3832	277.31	95.846									
10%	Vnom	340.21	372.24	94.658	340	372.07	94.677									
20%	Vnom	869.52	367.02	96.707	869.2	366.72	96.721									
30%	Vnom	1221.4	370.04	97.053	1221	368.65	97.037									
50%	Vnom	1926.3	369.33	97.341	1926	370.17	97.326									
75%	Vnom	2854.8	368.21	97.214	2855	368.23	97.207									
100%	Vnom	3834.6	369.11	97.037	3835	367.97	97.056									
10%	Vmax	334.15	474.74	93.075	334.3	472.13	93.112									
20%	Vmax	864.34	474.96	96.117	863.8	476.79	96.106									
30%	Vmax	1217.1	475.38	96.777	1217	474.3	96.778									
50%	Vmax	1920.7	472.97	97.172	1920	474.66	97.156									
75%	Vmax	2913.1	472.37	97.118	2913	473.02	97.117									
100%	Vmax	3838	472.86	97.004	3838	472.36	97.012									