Manufacturer: Jiangsu Zeversolar New Energy Co., Ltd

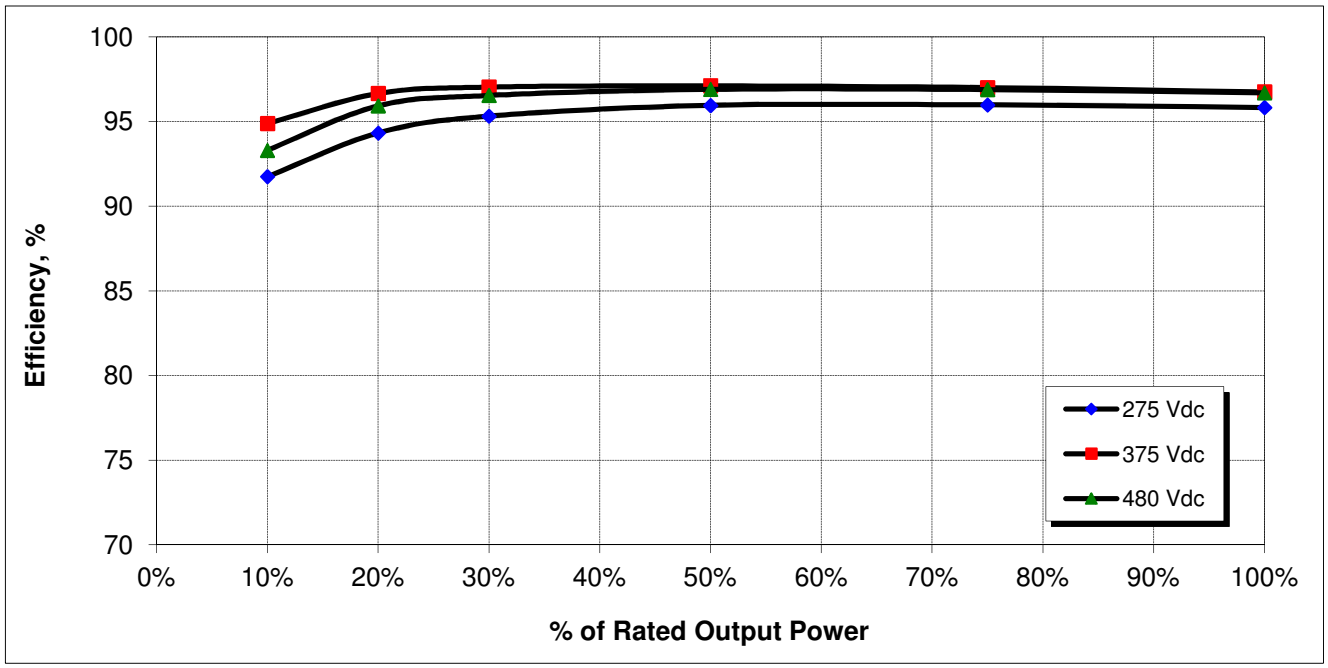
Model #: Evershine TL5000-US-240

Rated Maximum Continuous Output Power: 5.00 kW Night Tare Loss: 0.35 W

Vmin: 275 Vdc Vnom: 375 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.50	1.00	1.50	2.50	3.75	5.00	Wtd
Vmin	275	91.7	94.3	95.3	96.0	96.0	95.8	95.6
Vnom	375	94.9	96.7	97.0	97.1	97.0	96.7	96.9
Vmax	480	93.3	95.9	96.5	96.9	96.9	96.7	96.7

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	452.74	276.49	91.715	452.5	276.48	91.716	453	277.52	91.757	453.2	278.05	91.764	453.1	277.78	91.763
20%	Vmin	1032.7	278.2	94.334	1034	277.31	94.307	1033	279.2	94.348	1031	277.57	94.326	1035	276.64	94.294
30%	Vmin	1570.7	277.37	95.319	1572	276.99	95.315	1571	276.6	95.301	1571	276.44	95.298	1571	278.75	95.331
50%	Vmin	2635.6	278.53	95.953	2635	278.28	95.958	2634	277.02	95.946	2634	277.7	95.949	2635	278.58	95.951
75%	Vmin	3518.3	277.08	95.973	3520	278.07	95.977	3519	277.12	95.970	3518	277.39	95.985	3519	276.49	95.976
100%	Vmin	4777.5	275.71	95.815	4777	276.65	95.826	4773	276.94	95.823	4775	277.02	95.821	4774	277.53	95.833
10%	Vnom	467.73	372.63	94.855	468.3	370.74	94.971	468.4	372.52	94.934	467.8	371.28	94.835	468.1	374.25	94.878
20%	Vnom	1061.7	371.99	96.642	1062	373.32	96.642	1061	375.54	96.623	1062	374.18	96.663	1062	373.37	96.717
30%	Vnom	1545.3	373.64	97.021	1546	374.07	97.027	1546	374.23	97.043	1546	373.64	97.056	1545	374.18	97.029
50%	Vnom	2670.8	374.25	97.109	2670	373.19	97.109	2670	372.49	97.105	2670	374.05	97.115	2670	374.48	97.100
75%	Vnom	3513.6	372.54	97.001	3514	373.9	97.009	3515	374.18	97.013	3514	375.47	97.015	3515	373.69	97.021
100%	Vnom	4778.2	374.57	96.757	4778	373.02	96.754	4778	373.13	96.746	4780	373.46	96.747	4780	374.15	96.746
10%	Vmax	456.88	474.17	93.305	459.5	474.57	93.246	460.3	473.93	93.397	459.5	476.84	93.242	460.4	471.62	93.354
20%	Vmax	1053.1	473.24	95.891	1053	475.08	95.920	1054	474.26	95.950	1054	471.82	95.961	1053	475.14	95.927
30%	Vmax	1538.4	474.77	96.549	1539	473.56	96.583	1538	473.53	96.537	1538	473.04	96.539	1538	476.04	96.527
50%	Vmax	2666.4	472.31	96.917	2666	471.95	96.901	2666	471.75	96.916	2666	472.48	96.908	2666	472.54	96.913
75%	Vmax	3517.3	472.58	96.877	3519	473.82	96.903	3517	472.17	96.887	3518	473.2	96.894	3516	474.13	96.893
100%	Vmax	4786.2	473.58	96.734	4784	473.95	96.702	4781	473.9	96.631	4780	474.7	96.644	4785	472.97	96.692

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	452.59	277.63	91.755	453.1	276.92	91.741									
20%	Vmin	1035.3	277.27	94.308	1033	277.94	94.332									
30%	Vmin	1570.6	276.67	95.308	1572	277.89	95.330									
50%	Vmin	2634.1	276.89	95.943	2636	277.79	95.953									
75%	Vmin	3515.9	277.91	95.987	3517	275.99	95.962									
100%	Vmin	4777	276.6	95.822	4768	278.07	95.835									
10%	Vnom	468.03	374.31	94.851	467.7	372.63	94.855									
20%	Vnom	1061.6	372.63	96.660	1061	372.02	96.656									
30%	Vnom	1545.5	373.58	97.042	1546	373.99	97.047									
50%	Vnom	2670	373.6	97.112	2670	374.74	97.108									
75%	Vnom	3516.2	373.62	97.007	3517	373.54	96.997									
100%	Vnom	4779.7	373.44	96.748	4780	373.4	96.748									
10%	Vmax	460.09	472.62	93.293	459.3	476.73	93.282									
20%	Vmax	1053.1	473.55	95.877	1054	474.19	95.955									
30%	Vmax	1539	472.84	96.553	1537	476.12	96.530									
50%	Vmax	2665.3	471.49	96.901	2666	474.47	96.886									
75%	Vmax	3516.8	474.67	96.896	3518	474.14	96.892									
100%	Vmax	4784.5	475.69	96.702	4788	474.32	96.769									