Manufacturer: Jiangsu Zeversolar New Energy Co., Ltd

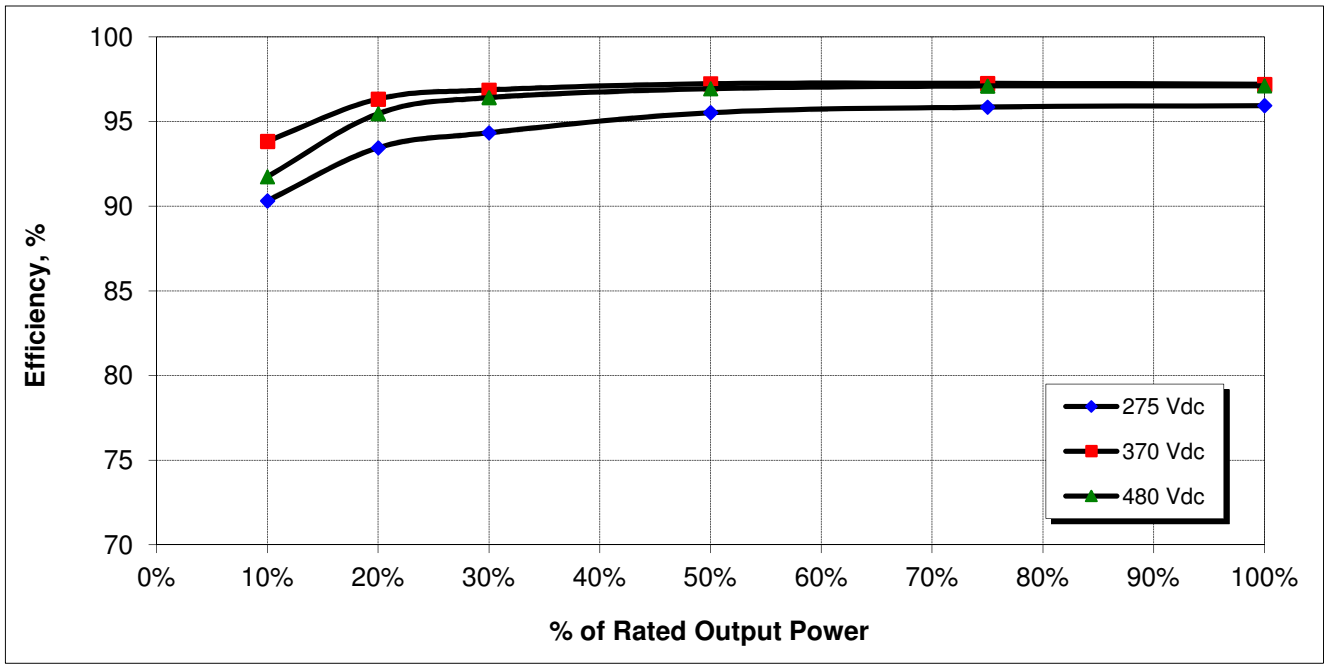
Model #: Evershine TL3000-US-240

Rated Maximum Continuous Output Power: 2.98 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)		0.30	0.60	0.89	1.49	2.24	2.98	Wtd
Vmin	275	90.3	93.4	94.3	95.5	95.9	95.9	95.3
Vnom	370	93.8	96.3	96.9	97.2	97.2	97.2	97.0
Vmax	480	91.7	95.5	96.4	96.9	97.1	97.1	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	257.79	276.74	90.288	258.3	277.78	90.304	258.5	277.65	90.336	258.1	276.45	90.363	257.5	275.89	90.229
20%	Vmin	625.99	278.2	93.447	626.7	278.44	93.507	625.5	276.98	93.432	625.8	277.24	93.439	625.9	277.83	93.439
30%	Vmin	899.07	279.2	94.354	901.2	277.82	94.316	902.2	276.99	94.351	900.8	277.64	94.343	898.9	279.33	94.381
50%	Vmin	1579.9	278.82	95.553	1584	277.06	95.522	1581	278.56	95.540	1581	277.15	95.521	1580	278.46	95.532
75%	Vmin	2137.5	277.43	95.862	2134	277.76	95.867	2141	276.54	95.847	2138	277.19	95.853	2136	278.13	95.865
100%	Vmin	2876.4	275.6	95.925	2873	277.7	95.940	2865	278.3	95.953	2878	275.99	95.928	2877	277.41	95.943
10%	Vnom	268.48	371.28	93.794	268.3	369.54	93.841	267.7	370.82	93.697	268.9	368.12	93.966	268.7	369.83	93.912
20%	Vnom	644.32	368.62	96.288	645.5	370.61	96.331	645.2	367.44	96.361	646	370.94	96.349	645.5	370.13	96.329
30%	Vnom	926.91	370.75	96.813	926.9	368.03	96.923	927.5	370.23	96.869	926.4	370.7	96.825	926.7	369.73	96.813
50%	Vnom	1615	368.95	97.213	1615	369.26	97.203	1614	368.68	97.218	1614	371.59	97.216	1615	369.62	97.238
75%	Vnom	2146.4	369.56	97.239	2147	370.4	97.259	2146	370.18	97.234	2146	369.07	97.248	2146	369.69	97.244
100%	Vnom	2888.2	368.77	97.201	2889	369.63	97.203	2888	370.01	97.203	2887	369.22	97.185	2889	369.41	97.194
10%	Vmax	261.84	472.82	91.675	263.1	475.46	92.112	262.3	473.62	91.801	260	475	91.175	263.1	476.81	92.191
20%	Vmax	639.48	474.92	95.450	639.6	473.04	95.468	639.3	475.93	95.462	639.6	472.78	95.499	639.7	473.48	95.500
30%	Vmax	954.05	475.83	96.521	954.6	474.26	96.525	952.6	475.95	96.339	952.4	476.15	96.310	953.7	474.76	96.453
50%	Vmax	1611.9	475.52	96.947	1612	476.93	96.947	1613	475.87	96.949	1612	475.96	96.919	1613	475.94	96.930
75%	Vmax	2140.6	474.53	97.088	2141	475.85	97.103	2141	476.61	97.096	2141	475.58	97.091	2142	473.75	97.125
100%	Vmax	2886.8	473.28	97.114	2888	474.06	97.107	2889	473.19	97.120	2888	474.56	97.096	2889	473.67	97.133

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	258.32	277.94	90.329	259	278.6	90.396									
20%	Vmin	625.85	277.44	93.456	625	276.5	93.430									
30%	Vmin	902.02	276.64	94.307	901.7	277.22	94.315									
50%	Vmin	1586.2	275.77	95.493	1583	277.44	95.519									
75%	Vmin	2139.4	276.76	95.853	2139	276.74	95.857									
100%	Vmin	2878.1	276.89	95.939	2876	277.59	95.953									
10%	Vnom	268.66	368.18	93.853	268.3	367.71	93.791									
20%	Vnom	645.68	368.39	96.340	644.5	370.96	96.263									
30%	Vnom	926.81	371.93	96.870	925.7	372.87	96.896									
50%	Vnom	1615.1	370.22	97.244	1614	370.81	97.243									
75%	Vnom	2146.4	369.54	97.250	2147	369.62	97.250									
100%	Vnom	2889	369.7	97.194	2888	369.92	97.199									
10%	Vmax	262.26	474.53	91.842	261.1	475.47	91.417									
20%	Vmax	639.15	474.41	95.442	639.1	476.55	95.426									
30%	Vmax	952.5	476.94	96.322	954	475.33	96.452									
50%	Vmax	1613	474.68	96.956	1612	473.62	96.937									
75%	Vmax	2141.1	473.96	97.108	2141	475.31	97.101									
100%	Vmax	2888.3	474.44	97.103	2888	473.98	97.098									