Manufacturer: Jiangsu Zeversolar New Energy Co., Ltd

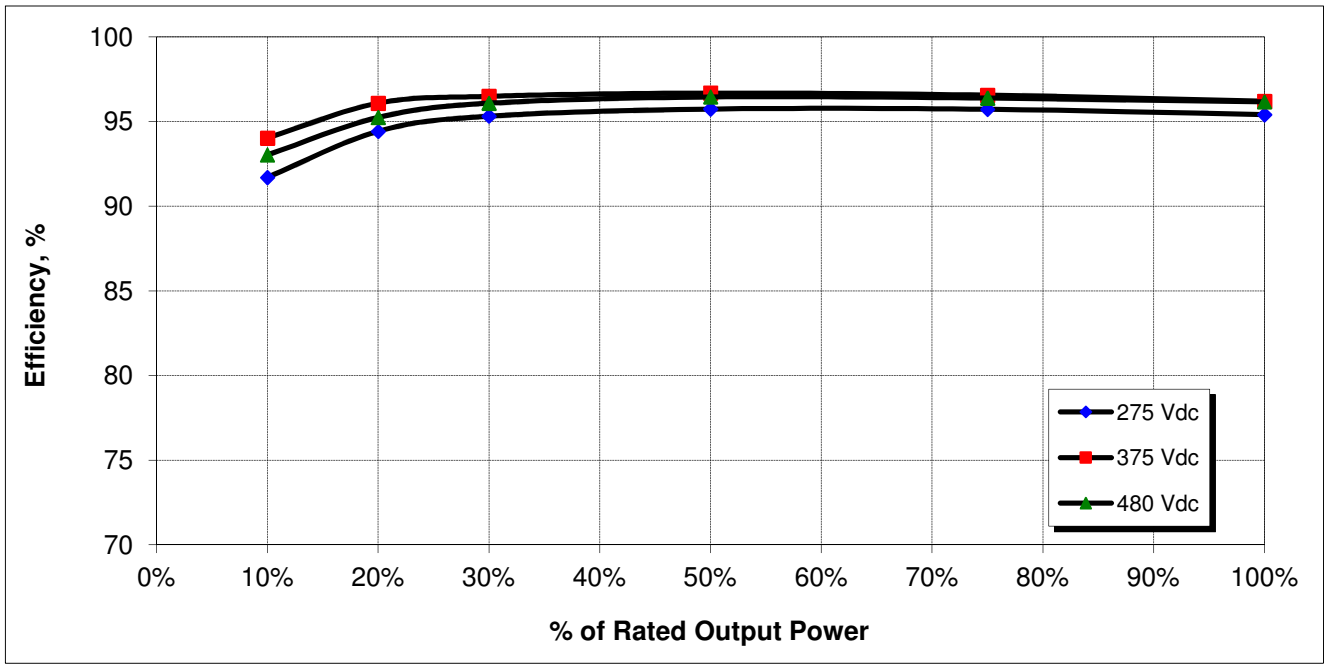
Model #: Evershine TL5000-US-208

Rated Maximum Continuous Output Power: 5.00 kW Night Tare Loss: 0.27 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	94.4	95.3	95.7	95.7	95.4	95.4
Vnom	375	94.0	96.1	96.5	96.7	96.6	96.2	96.4
Vmax	480	93.0	95.2	96.1	96.5	96.4	96.2	96.2

CEC Efficiency = 96.0%



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	446.27	279.63	91.694	446.2	276.57	91.684	446.3	277.32	91.693	446.1	276.92	91.674	446.3	276.91	91.705
20%	Vmin	1018.7	277.42	94.429	1015	277.17	94.417	1003	278.42	94.423	990.9	276.62	94.373	1000	278.43	94.436
30%	Vmin	1541.8	276.8	95.310	1542	277.22	95.310	1544	276.62	95.312	1543	276.8	95.314	1544	278.16	95.327
50%	Vmin	2426.2	277.72	95.741	2424	277.24	95.737	2428	276.85	95.734	2429	277.32	95.741	2427	277.27	95.738
75%	Vmin	3508.4	277.98	95.715	3508	277.93	95.715	3509	277.47	95.722	3509	278.79	95.735	3509	277.91	95.730
100%	Vmin	4772.3	275.37	95.390	4775	277.45	95.415	4772	276.48	95.410	4771	276.01	95.404	4771	277.68	95.414
10%	Vnom	457.76	373.9	94.001	456.2	372.9	93.717	457.2	373.5	93.901	457.5	375.49	93.909	459.3	373.98	94.320
20%	Vnom	1037.7	375.45	96.065	1038	374.93	96.063	1036	377.52	96.027	1038	374.53	96.108	1038	373.04	96.086
30%	Vnom	1564.8	374.01	96.524	1564	375.61	96.473	1562	374.41	96.327	1563	375.76	96.426	1565	373.19	96.569
50%	Vnom	2454.7	372.98	96.684	2453	373.99	96.660	2452	375.71	96.668	2454	373.79	96.687	2453	375.51	96.666
75%	Vnom	3514.8	374.83	96.590	3509	375.45	96.470	3511	374.46	96.499	3514	374.41	96.617	3512	373.29	96.535
100%	Vnom	4760.1	373.3	96.191	4760	372.46	96.184	4759	373.93	96.195	4760	372.73	96.202	4760	373.19	96.199
10%	Vmax	455.15	472.46	93.326	456.1	473.31	93.449	458.4	474.22	93.947	451.6	476.72	92.641	451.3	475.76	92.564
20%	Vmax	1031.9	474.24	95.369	1027	477.66	94.996	1029	475.14	95.141	1032	474.77	95.373	1030	473.96	95.218
30%	Vmax	1557.3	473.03	96.064	1556	475.53	95.949	1555	475.18	95.951	1559	474.19	96.116	1560	474.3	96.181
50%	Vmax	2502.2	476.27	96.464	2501	476.69	96.443	2502	476.45	96.474	2502	475.57	96.479	2503	475.25	96.458
75%	Vmax	3518.6	476.03	96.366	3520	474.96	96.372	3521	473.84	96.403	3521	475.97	96.422	3520	477.59	96.438
100%	Vmax	4768.4	478.6	96.168	4773	475.39	96.156	4773	471.94	96.170	4772	473.8	96.160	4772	474.58	96.164

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	446.6	278.75	91.721	446.3	277.95	91.688									
20%	Vmin	976.55	275.63	94.373	1015	278.33	94.454									
30%	Vmin	1544.6	277.36	95.309	1544	277.31	95.323									
50%	Vmin	2426.7	275.99	95.718	2426	277.61	95.741									
75%	Vmin	3508.5	277.52	95.723	3509	278.54	95.714									
100%	Vmin	4773.7	276.21	95.395	4775	277.54	95.411									
10%	Vnom	457.89	376.73	94.044	459.6	374.09	94.283									
20%	Vnom	1038.4	372.36	96.104	1038	374.34	96.094									
30%	Vnom	1567.1	374.44	96.667	1562	376.37	96.409									
50%	Vnom	2454.4	374.69	96.678	2455	373.56	96.683									
75%	Vnom	3512.8	373.38	96.565	3512	374.07	96.592									
100%	Vnom	4759.8	373.12	96.203	4760	373.13	96.199									
10%	Vmax	449.18	475.31	92.168	454.1	474.22	93.092									
20%	Vmax	1029.1	475.66	95.133	1033	474.48	95.455									
30%	Vmax	1556.6	476.53	96.050	1560	475.41	96.262									
50%	Vmax	2501.1	473.89	96.441	2501	473.22	96.430									
75%	Vmax	3519.1	478	96.423	3516	475.59	96.275									
100%	Vmax	4770.3	477.33	96.159	4773	473.39	96.160									