Manufacturer: Satcon Technology Corporation

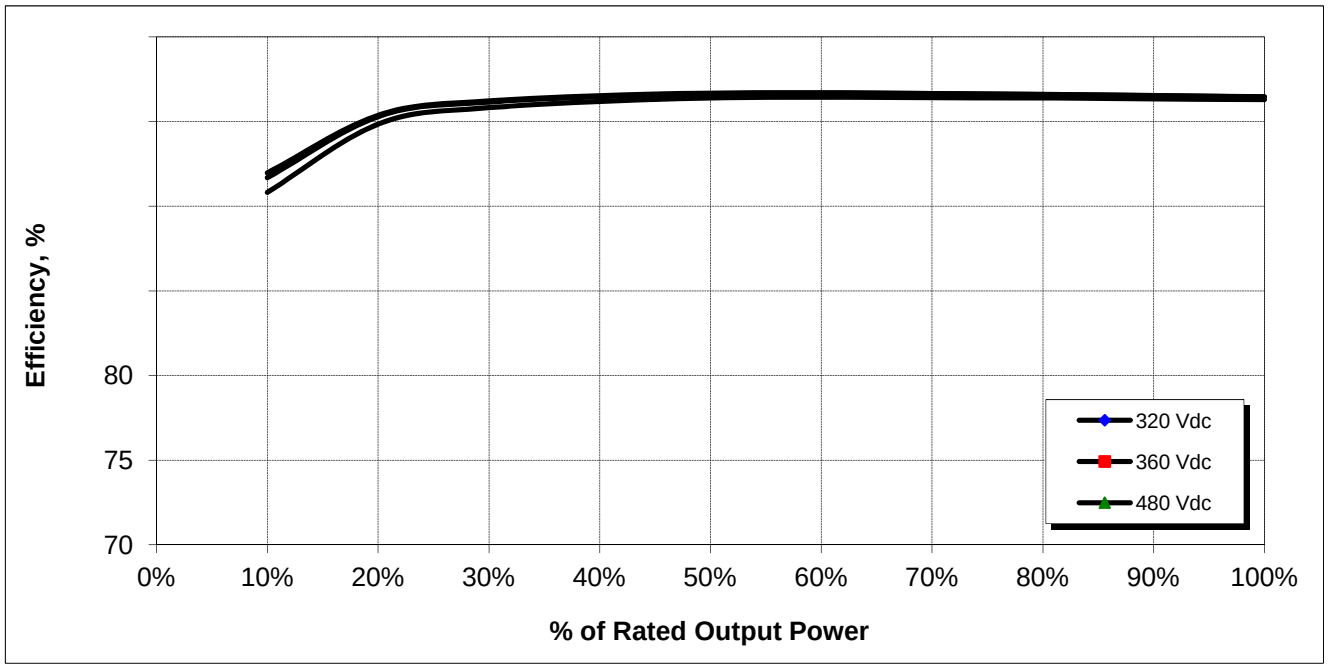
Model #: Equinox 500 kW EQX0500US480T suffix -N or -P

Rated Maximum Continuous Output Power: 500.00 kW Night Tare Loss: 116.50 W

Vmin: 320 Vdc Vnom: 360 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	320	92.0	95.4	96.2	96.7	96.6	96.4	96.3
Vnom	360	91.7	95.3	96.1	96.6	96.6	96.5	96.3
Vmax	480	90.8	94.8	95.8	96.4	96.4	96.3	96.0

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	46.485	325.26	91.993	46.46	325.4	91.936	46.42	325.3	91.945	46.32	325.25	91.935	46.46	325.32	91.929
20%	Vmin	106.39	325.71	95.373	106.2	325.67	95.372	106.2	325.68	95.369	106.2	325.68	95.373	106.1	325.73	95.363
30%	Vmin	160.82	325.16	96.223	161	325.01	96.216	160.5	325.07	96.218	160.8	325.03	96.237	160.1	325.11	96.209
50%	Vmin	273.35	325.85	96.685	273.8	325.83	96.687	273.7	325.9	96.700	274.4	325.81	96.688	273.4	325.84	96.685
75%	Vmin	356.79	324.81	96.637	356.4	324.97	96.640	358.5	324.94	96.644	356.1	324.85	96.630	358.2	324.98	96.630
100%	Vmin	479.81	325.79	96.458	479.5	325.65	96.461	479.6	325.68	96.457	479.2	325.74	96.452	479.1	325.72	96.448
10%	Vnom	46.466	361.45	91.740	46.5	361.44	91.721	46.51	361.42	91.656	46.53	361.4	91.635	46.53	361.4	91.652
20%	Vnom	105.31	361.81	95.244	105.5	361.82	95.281	105.5	361.8	95.302	105.5	361.84	95.271	105.5	361.85	95.275
30%	Vnom	159.26	361.3	96.153	159.4	361.29	96.139	159.5	361.28	96.150	159.5	361.31	96.151	159.4	361.27	96.136
50%	Vnom	271.81	361.2	96.628	271.8	361.25	96.632	271.8	361.26	96.618	271.8	361.23	96.622	271.8	361.2	96.605
75%	Vnom	349.77	360.45	96.620	349.7	360.53	96.620	349.8	360.45	96.624	349.8	360.49	96.619	349.9	360.5	96.614
100%	Vnom	476.85	360.19	96.466	476.8	360.2	96.473	476.8	360.21	96.451	476.7	360.25	96.453	476.8	360.22	96.453
10%	Vmax	46.703	472.48	90.817	46.72	472.5	90.782	46.72	472.46	90.799	46.68	472.5	90.843	46.72	472.45	90.800
20%	Vmax	110.68	472.05	94.912	110.7	472.03	94.905	111.2	472.05	94.890	111.2	471.93	94.892	105.7	472.02	94.789
30%	Vmax	159.77	471.68	95.812	159.8	471.69	95.829	159.8	471.68	95.816	159.8	471.64	95.816	159.8	471.62	95.797
50%	Vmax	272.26	471.85	96.381	272.5	471.73	96.391	272.3	471.83	96.393	272.4	471.85	96.394	272.5	471.85	96.381
75%	Vmax	350.7	471.3	96.399	350.6	471.27	96.400	350.7	471.24	96.396	350.7	471.25	96.404	350.6	471.27	96.400
100%	Vmax	477.46	471.24	96.294	477.6	471.25	96.294	477.6	471.26	96.301	477.5	471.26	96.297	477.7	471.33	96.300

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	46.599	325.38	91.950	46.72	325.28	92.024									
20%	Vmin	106.25	325.79	95.345	106.2	325.67	95.350									
30%	Vmin	160.58	325.07	96.227	160.9	325.16	96.222									
50%	Vmin	273.4	325.84	96.681	273.6	325.92	96.672									
75%	Vmin	356.4	324.84	96.627	357.6	324.89	96.626									
100%	Vmin	479.17	325.7	96.438	480.1	325.57	96.431									
10%	Vnom	46.49	361.38	91.683	46.51	361.48	91.641									
20%	Vnom	105.42	361.85	95.284	105.4	361.76	95.258									
30%	Vnom	159.47	361.28	96.125	159.4	361.23	96.128									
50%	Vnom	271.75	361.25	96.622	271.8	361.27	96.623									
75%	Vnom	349.76	360.47	96.619	350.5	360.28	96.618									
100%	Vnom	476.89	360.25	96.447	476.8	360.21	96.432									
10%	Vmax	46.713	472.54	90.862	46.7	472.49	90.767									
20%	Vmax	105.58	472.08	94.744	105.8	472.11	94.775									
30%	Vmax	159.76	471.61	95.815	159.6	471.62	95.830									
50%	Vmax	272.5	471.81	96.381	272.4	471.85	96.386									
75%	Vmax	350.72	471.25	96.391	350.6	471.29	96.396									
100%	Vmax	477.64	471.31	96.284	477.6	471.29	96.273									