Manufacturer: Danfoss Solar Inverters

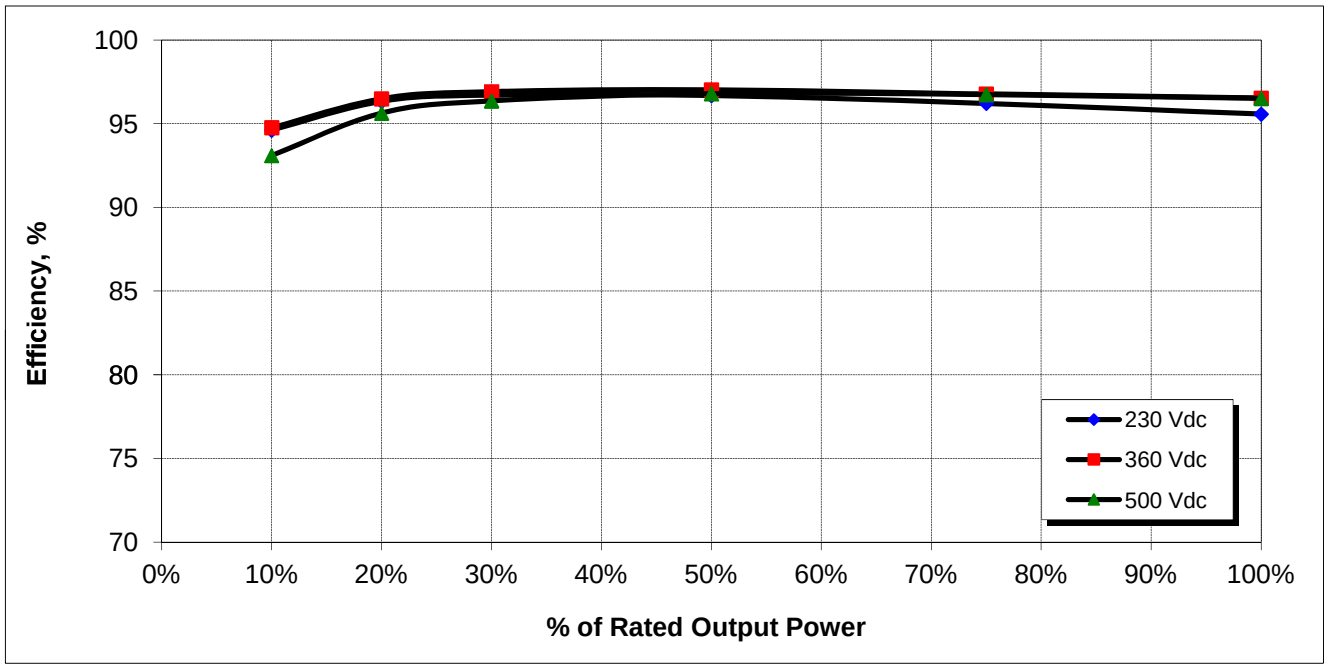
Model #: DLX 3.8 UL

Rated Maximum Continuous Output Power: 3.81 kW Night Tare Loss: -0.77 W

Vmin: 230 Vdc Vnom: 360 Vdc Vmax: 500 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.38	0.76	1.14	1.91	2.86	3.81	Wtd
Vmin	230	94.6	96.3	96.7	96.7	96.2	95.6	96.3
Vnom	360	94.8	96.5	96.9	97.0	96.8	96.5	96.7
Vmax	500	93.1	95.6	96.4	96.8	96.7	96.5	96.5

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)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	0.3589	229.88	94.686	0.358	229.88	94.594	0.359	229.87	94.64	0.358	229.87	94.549	0.359	229.86	94.639
20%	Vmin	0.7756	229.94	96.409	0.775	229.95	96.303	0.774	229.97	96.248	0.776	229.94	96.382	0.775	229.95	96.335
30%	Vmin	1.1781	229.99	96.746	1.177	230.01	96.644	1.177	229.98	96.741	1.177	230	96.679	1.177	230	96.71
50%	Vmin	1.7738	230.09	96.571	1.775	230.08	96.665	1.776	230.07	96.691	1.777	230.05	96.778	1.776	230.06	96.708
75%	Vmin	2.7723	230.2	96.216	2.772	230.22	96.206	2.772	230.2	96.215	2.773	230.21	96.217	2.773	230.2	96.213
100%	Vmin	3.7889	230.34	95.597	3.788	230.35	95.577	3.788	230.33	95.59	3.786	230.36	95.521	3.788	230.34	95.585
10%	Vnom	0.3581	359.88	94.694	0.358	359.86	94.78	0.358	359.86	94.786	0.358	359.89	94.72	0.358	359.85	94.824
20%	Vnom	0.7949	359.9	96.626	0.794	359.88	96.563	0.792	359.93	96.306	0.794	359.94	96.484	0.793	359.9	96.46
30%	Vnom	1.1787	359.93	96.928	1.178	359.95	96.841	1.179	359.95	96.924	1.179	359.92	96.94	1.18	359.92	96.937
50%	Vnom	1.9961	359.99	97.042	1.978	359.99	97.018	1.979	360.02	97.051	1.978	360.03	97.01	1.978	360.01	97.015
75%	Vnom	2.9119	360.09	96.806	2.929	360.09	96.788	2.928	360.08	96.781	2.943	360.12	96.69	2.929	360.09	96.809
100%	Vnom	3.7014	360.15	96.513	3.701	360.13	96.507	3.702	360.13	96.515	3.702	360.14	96.519	3.704	360.1	96.589
10%	Vmax	0.3488	499.69	93.068	0.349	499.64	93.112	0.349	499.67	93.118	0.349	499.67	93.053	0.349	499.64	93.109
20%	Vmax	0.7808	499.69	95.556	0.781	499.66	95.593	0.782	499.68	95.612	0.782	499.65	95.715	0.782	499.64	95.658
30%	Vmax	1.1726	499.71	96.34	1.172	499.67	96.34	1.173	499.66	96.411	1.173	499.7	96.349	1.173	499.64	96.338
50%	Vmax	1.8777	499.71	96.771	1.879	499.69	96.84	1.88	499.7	96.837	1.878	499.72	96.741	1.878	499.72	96.748
75%	Vmax	2.8422	499.8	96.699	2.843	499.78	96.732	2.843	499.78	96.721	2.844	499.77	96.771	2.843	499.76	96.737
100%	Vmax	3.7954	499.84	96.504	3.796	499.84	96.498	3.795	499.8	96.509	3.795	499.82	96.499	3.796	499.83	96.519

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)
10%	Vmin															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
30%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															
50%	Vmax															
75%	Vmax															
100%	Vmax															