Manufacturer: Danfoss Solar Inverters

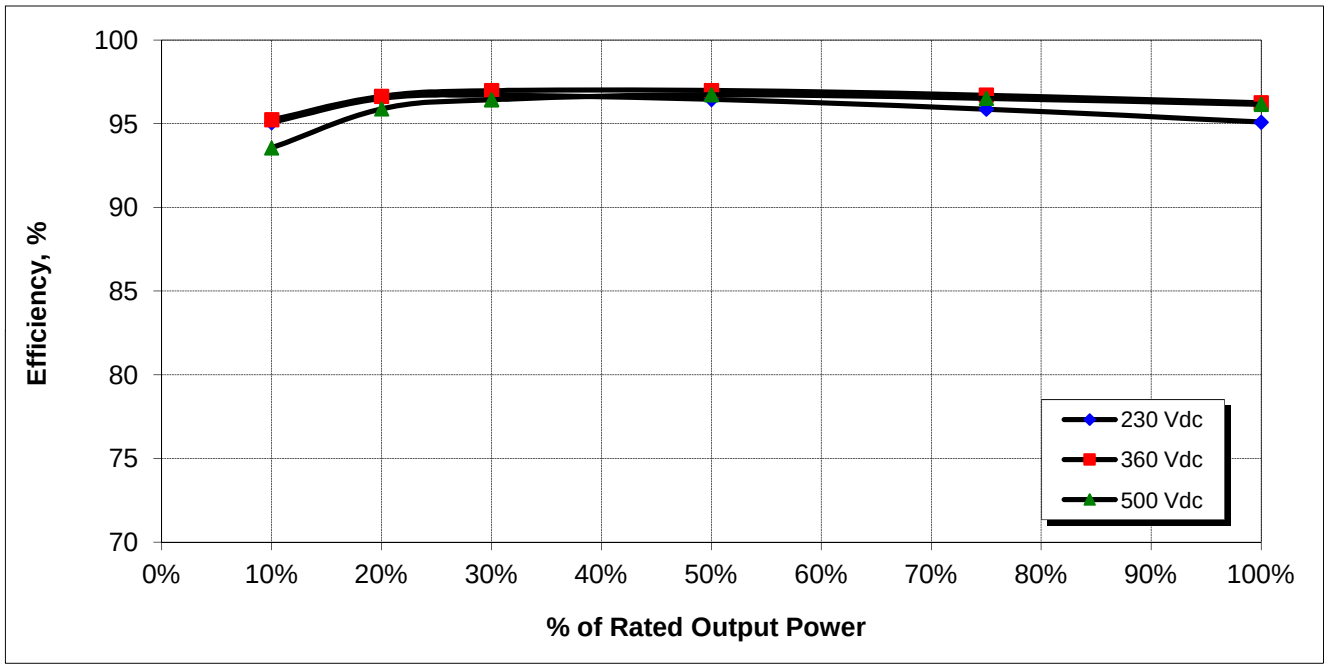
Model #: DLX 4.4 UL

Rated Maximum Continuous Output Power: 4.40 kW Night Tare Loss: -0.80 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.44	0.88	1.32	2.20	3.30	4.40	Wtd
Vmin	230	95.1	96.5	96.7	96.4	95.9	95.1	96.0
Vnom	360	95.2	96.6	97.0	97.0	96.7	96.3	96.7
Vmax	500	93.6	95.9	96.4	96.7	96.5	96.2	96.4

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	0.4247	229.74	94.977	0.425	229.72	95.107	0.426	229.73	95.119	0.425	229.74	95.052	0.426	229.72	95.144
20%	Vmin	0.9302	229.79	96.483	0.93	229.78	96.509	0.93	229.78	96.529	0.93	229.78	96.498	0.93	229.78	96.514
30%	Vmin	1.36	229.84	96.688	1.36	229.82	96.697	1.36	229.83	96.701	1.36	229.83	96.68	1.36	229.83	96.694
50%	Vmin	2.2098	229.93	96.465	2.21	229.94	96.464	2.21	229.92	96.47	2.209	229.95	96.387	2.21	229.94	96.455
75%	Vmin	3.1548	230.05	95.882	3.176	230.05	95.867	3.186	230.05	95.839	3.187	230.05	95.864	3.187	230.06	95.878
100%	Vmin	4.3426	230.19	95.102	4.343	230.19	95.11	4.342	230.21	95.077	4.342	230.21	95.075	4.343	230.21	95.09
10%	Vnom	0.43	359.76	95.314	0.43	359.75	95.297	0.43	359.77	95.193	0.429	359.77	95.162	0.43	359.77	95.238
20%	Vnom	0.9098	359.8	96.609	0.91	359.79	96.674	0.91	359.79	96.665	0.91	359.79	96.606	0.91	359.8	96.651
30%	Vnom	1.3491	359.85	96.983	1.349	359.83	96.98	1.349	359.86	96.957	1.349	359.85	96.969	1.349	359.83	96.987
50%	Vnom	2.1943	359.85	96.99	2.194	359.87	96.99	2.195	359.86	97.003	2.194	359.87	96.979	2.195	359.89	96.993
75%	Vnom	3.2474	359.96	96.687	3.213	359.98	96.707	3.214	359.99	96.734	3.248	359.96	96.703	3.248	359.98	96.708
100%	Vnom	4.3974	360.05	96.251	4.397	360.07	96.244	4.398	360.05	96.259	4.398	360.04	96.263	4.397	360.05	96.236
10%	Vmax	0.4068	499.64	93.522	0.407	499.68	93.558	0.406	499.61	93.498	0.407	499.7	93.573	0.407	499.66	93.623
20%	Vmax	0.9334	499.65	95.915	0.934	499.68	95.911	0.934	499.69	95.911	0.934	499.69	95.922	0.932	499.7	95.779
30%	Vmax	1.3467	499.63	96.422	1.347	499.65	96.445	1.347	499.66	96.41	1.347	499.65	96.404	1.348	499.65	96.485
50%	Vmax	2.3126	499.69	96.68	2.313	499.71	96.69	2.313	499.72	96.683	2.313	499.7	96.692	2.311	499.65	96.943
75%	Vmax	3.2446	499.74	96.485	3.247	499.74	96.544	3.245	499.77	96.489	3.245	499.73	96.514	3.247	499.76	96.543
100%	Vmax	4.3743	499.81	96.178	4.375	499.8	96.159	4.384	499.78	96.154	4.384	499.8	96.165	4.388	499.77	96.178

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															