Manufacturer: Danfoss Solar Inverters

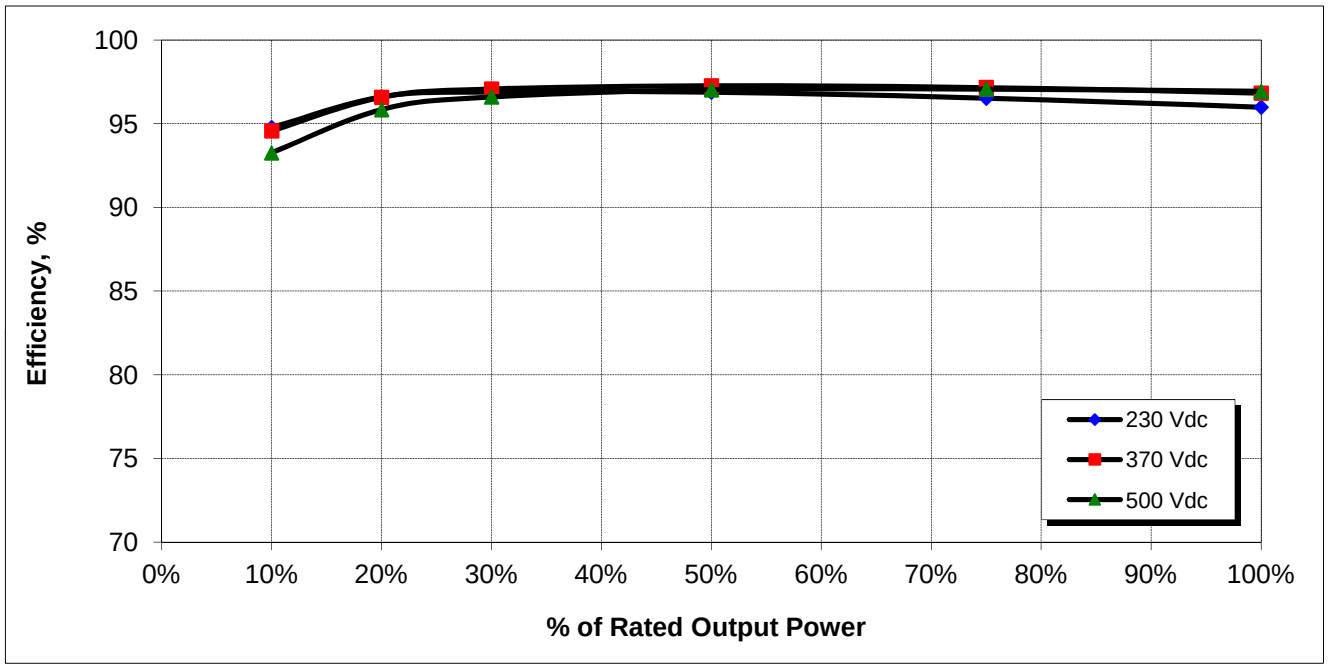
Model #: DLX 3.8 UL

Rated Maximum Continuous Output Power: 3.81 kW Night Tare Loss: -0.90 W

Vmin: 230 Vdc Vnom: 370 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	94.8	96.6	96.9	96.9	96.5	96.0	96.6
Vnom	370	94.6	96.6	97.1	97.3	97.2	96.8	97.0
Vmax	500	93.3	95.8	96.6	97.0	97.1	96.9	96.8

CEC Efficiency = 97.0%



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)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	0.3618	230.03	94.871	0.361	230.03	94.748	0.361	230.02	94.732	0.361	230.03	94.737	0.361	230.02	94.771
20%	Vmin	0.7911	230.08	96.536	0.791	230.1	96.556	0.792	230.1	96.59	0.792	230.11	96.609	0.793	230.09	96.707
30%	Vmin	1.1721	230.13	96.855	1.173	230.13	96.899	1.173	230.14	96.913	1.173	230.15	96.912	1.173	230.12	96.899
50%	Vmin	1.9417	230.24	96.909	1.939	230.24	96.78	1.94	230.24	96.829	1.942	230.22	96.963	1.941	230.23	96.905
75%	Vmin	2.8093	230.35	96.598	2.807	230.35	96.511	2.805	230.35	96.46	2.808	230.35	96.559	2.807	230.36	96.514
100%	Vmin	3.7657	230.49	95.934	3.769	230.46	96.051	3.767	230.5	95.965	3.769	230.48	96.026	3.767	230.5	95.959
10%	Vnom	0.3566	369.97	94.56	0.356	369.97	94.49	0.356	369.95	94.515	0.357	369.94	94.676	0.357	369.93	94.616
20%	Vnom	0.7877	369.97	96.616	0.787	369.98	96.567	0.787	369.99	96.534	0.788	369.98	96.588	0.788	369.98	96.636
30%	Vnom	1.1848	370.01	97.091	1.185	370.03	97.096	1.186	370.03	97.137	1.184	370.06	97.018	1.185	370.04	97.038
50%	Vnom	1.9077	370.06	97.33	1.906	370.06	97.273	1.906	370.04	97.291	1.907	370.06	97.311	1.903	370.09	97.15
75%	Vnom	2.8759	370.18	97.219	2.872	370.21	97.1	2.908	370.17	97.122	2.911	370.13	97.2	2.875	370.17	97.193
100%	Vnom	3.7772	370.31	96.821	3.775	370.27	96.808	3.78	370.28	96.881	3.779	370.26	96.879	3.776	370.33	96.794
10%	Vmax	0.3549	499.88	93.164	0.355	499.87	93.264	0.355	499.81	93.285	0.355	499.84	93.32	0.355	499.84	93.241
20%	Vmax	0.7887	499.87	95.825	0.788	499.9	95.722	0.789	499.86	95.837	0.79	499.83	95.979	0.789	499.87	95.83
30%	Vmax	1.1813	499.88	96.591	1.182	499.85	96.584	1.181	499.87	96.536	1.181	499.86	96.629	1.181	499.81	96.615
50%	Vmax	1.9683	499.87	97.028	1.968	499.94	97.015	1.969	499.88	97.046	1.969	499.86	97.031	1.968	499.88	96.997
75%	Vmax	2.8259	499.98	97.003	2.826	499.96	97.03	2.804	499.95	97.102	2.805	499.95	97.121	2.803	499.93	97.061
100%	Vmax	3.7752	500.02	96.907	3.777	500	96.917	3.774	500.01	96.921	3.792	499.97	96.958	3.776	500	96.914

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															