Manufacturer: Fronius International GmbH

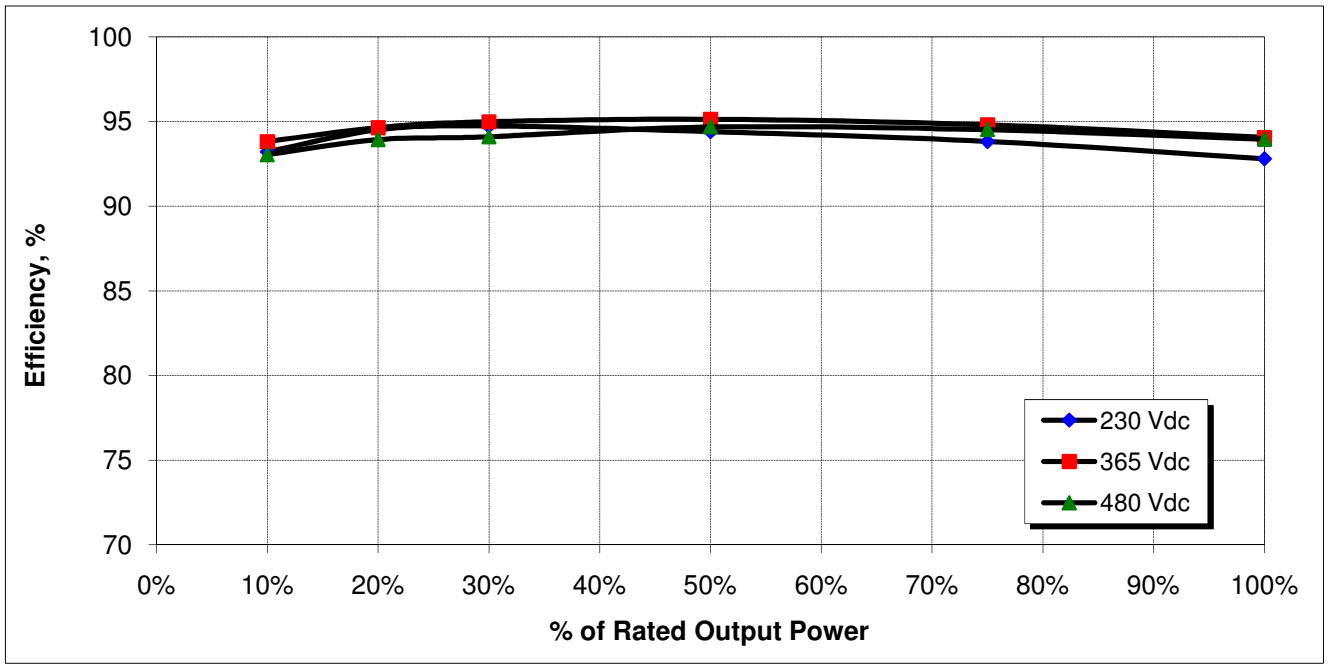
Model #: Fronius CL 55.5 Delta (208 V)

Rated Maximum Continuous Output Power: 55.50 kW Night Tare Loss: 3.43 W

Vmin: 230 Vdc Vnom: 365 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		5.55	11.10	16.65	27.75	41.63	55.50	Wtd
Vmin	230	93.2	94.5	94.7	94.4	93.8	92.8	94.0
Vnom	365	93.8	94.6	95.0	95.1	94.8	94.1	94.8
Vmax	480	93.0	93.9	94.1	94.7	94.5	94.0	94.4

CEC Efficiency = 94.5%



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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	5498	229.03	93.307	5495	229.03	93.326	5489	229.03	93.150	5487	229.02	93.165	5487	229.02	93.161
20%	Vmin	12121	229.31	94.499	12125	229.31	94.507	12124	229.31	94.500	12124	229.31	94.504	12127	229.32	94.506
30%	Vmin	18041	229.3	94.725	18043	229.31	94.724	18045	229.31	94.740	18042	229.31	94.729	18045	229.31	94.737
50%	Vmin	30493	229.24	94.404	30483	229.23	94.376	30483	229.24	94.371	30495	229.24	94.404	30493	229.24	94.407
75%	Vmin	38882	229.16	93.829	38879	229.16	93.814	38877	229.16	93.812	38879	229.17	93.813	38876	229.16	93.815
100%	Vmin	52759	229.24	92.810	52753	229.27	92.810	52748	229.28	92.796	52727	229.25	92.764	52734	229.28	92.774
10%	Vnom	5517.3	364.97	93.826	5520	364.96	93.847	5516	364.97	93.797	5518	364.97	93.786	5518	364.96	93.817
20%	Vnom	12155	365.09	94.681	12152	365.08	94.670	12146	365.08	94.625	12148	365.08	94.622	12147	365.09	94.619
30%	Vnom	17983	365.06	94.963	17983	365.05	94.972	17991	365.07	94.994	17992	365.07	94.998	17993	365.06	94.997
50%	Vnom	30480	365.04	95.125	30475	365.04	95.101	30480	365.04	95.119	30483	365.04	95.136	30484	365.04	95.144
75%	Vnom	38967	365.03	94.801	38964	365.03	94.801	38966	365.03	94.805	38964	365.03	94.802	38963	365.03	94.800
100%	Vnom	52884	365.09	94.031	52888	365.11	94.037	52888	365.09	94.039	52904	365.08	94.055	52905	365.09	94.064
10%	Vmax	5536	478.43	93.059	5538	478.43	93.023	5541	478.43	93.034	5536	478.43	93.051	5538	478.43	93.045
20%	Vmax	12044	478.61	93.834	12054	478.65	93.912	12057	478.63	93.892	12054	478.62	93.919	12073	478.6	94.014
30%	Vmax	17957	478.72	94.104	17957	478.71	94.107	17958	478.72	94.114	17960	478.72	94.096	17959	478.71	94.112
50%	Vmax	30414	478.74	94.697	30403	478.74	94.669	30404	478.74	94.660	30407	478.74	94.655	30420	478.74	94.700
75%	Vmax	38983	478.75	94.522	38983	478.75	94.530	38987	478.75	94.523	38985	478.74	94.520	38987	478.74	94.527
100%	Vmax	53009	478.76	93.945	53011	478.76	93.949	53016	478.78	93.955	53018	478.78	93.951	53009	478.77	93.948

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	5487.6	229.03	93.170	5485	229.02	93.164									
20%	Vmin	12124	229.31	94.492	12125	229.31	94.507									
30%	Vmin	18045	229.31	94.724	18045	229.3	94.733									
50%	Vmin	30492	229.24	94.405	30496	229.24	94.406									
75%	Vmin	38880	229.16	93.813	38882	229.16	93.819									
100%	Vmin	52742	229.22	92.787	52753	229.26	92.810									
10%	Vnom	5515	364.96	93.799	5521	364.96	93.818									
20%	Vnom	12146	365.08	94.623	12145	365.07	94.610									
30%	Vnom	17987	365.07	94.975	17989	365.06	94.972									
50%	Vnom	30484	365.04	95.140	30478	365.04	95.119									
75%	Vnom	38957	365.03	94.787	38961	365.03	94.792									
100%	Vnom	52912	365.09	94.075	52894	365.08	94.056									
10%	Vmax	5541.3	478.43	93.089	5538	478.43	93.048									
20%	Vmax	12072	478.6	94.004	12069	478.58	93.994									
30%	Vmax	17956	478.72	94.089	17959	478.72	94.108									
50%	Vmax	30418	478.73	94.703	30419	478.73	94.702									
75%	Vmax	38987	478.74	94.523	38988	478.74	94.539									
100%	Vmax	53015	478.77	93.961	53017	478.77	93.963									