Manufacturer: Fronius International GmbH

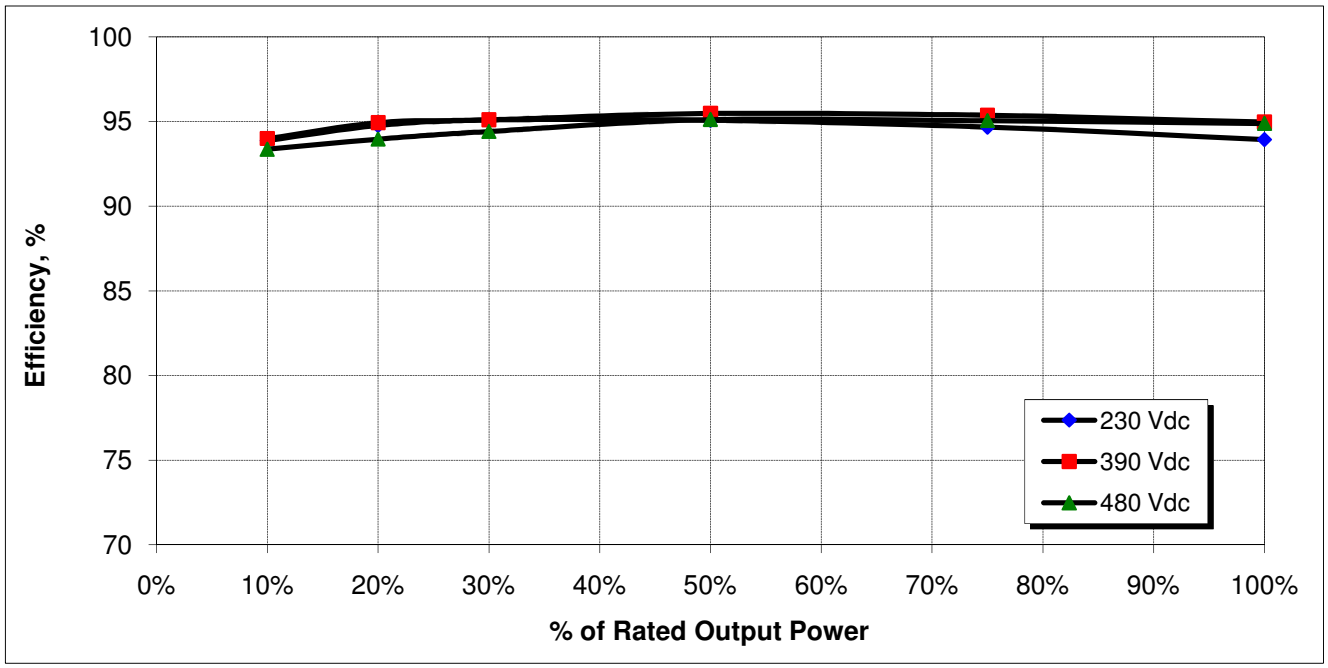
Model #: Fronius CL 55.5 Delta (240 V)

Rated Maximum Continuous Output Power: 55.50 kW Night Tare Loss: 4.32 W

Vmin: 230 Vdc Vnom: 390 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	93.9	94.8	95.1	95.1	94.7	93.9	94.7
Vnom	390	94.0	94.9	95.1	95.5	95.4	95.0	95.3
Vmax	480	93.4	94.0	94.4	95.1	95.1	94.9	94.9

CEC Efficiency = 95.0%



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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	5409	230.06	93.867	5411	230.06	93.879	5411	230.07	93.880	5411	230.07	93.867	5410	230.07	93.869
20%	Vmin	12164	230.34	94.785	12161	230.34	94.762	12159	230.34	94.755	12159	230.34	94.750	12159	230.34	94.749
30%	Vmin	17988	230.35	95.077	17990	230.36	95.077	17987	230.35	95.069	17989	230.35	95.083	17989	230.36	95.083
50%	Vmin	30402	230.29	95.070	30402	230.29	95.076	30405	230.29	95.076	30403	230.3	95.075	30401	230.29	95.077
75%	Vmin	39064	230.23	94.652	39074	230.24	94.682	39079	230.23	94.683	39077	230.24	94.683	39066	230.24	94.652
100%	Vmin	52771	230.31	93.950	52770	230.28	93.953	52763	230.28	93.944	52756	230.3	93.939	52764	230.27	93.944
10%	Vnom	5410.2	390.46	94.007	5411	390.46	94.014	5413	390.46	93.975	5412	390.46	94.023	5415	390.46	94.006
20%	Vnom	12175	388.79	94.948	12174	388.78	94.938	12172	388.79	94.929	12170	388.78	94.920	12172	388.78	94.934
30%	Vnom	18023	390.64	95.124	18020	390.65	95.135	18024	390.64	95.122	18015	390.64	95.080	18015	390.65	95.092
50%	Vnom	30506	388.95	95.482	30507	388.95	95.481	30506	388.95	95.479	30510	388.94	95.483	30512	388.95	95.489
75%	Vnom	39031	390.64	95.387	39026	390.64	95.370	39019	390.64	95.356	39027	390.65	95.362	39034	390.63	95.385
100%	Vnom	52751	390.71	94.977	52747	390.7	94.980	52732	390.71	94.955	52739	390.69	94.974	52744	390.71	94.978
10%	Vmax	5377.9	480.45	93.482	5379	480.45	93.391	5370	480.45	93.347	5374	480.45	93.336	5370	480.45	93.320
20%	Vmax	12185	480.64	93.973	12188	480.63	93.989	12191	480.62	94.000	12186	480.63	93.938	12180	480.62	93.939
30%	Vmax	18017	480.73	94.422	18014	480.72	94.410	18016	480.71	94.417	18017	480.71	94.428	18019	480.72	94.413
50%	Vmax	30521	480.73	95.115	30520	480.72	95.118	30519	480.71	95.118	30515	480.72	95.123	30519	480.72	95.119
75%	Vmax	43898	480.71	95.061	43889	480.71	95.044	43884	480.71	95.030	43893	480.71	95.059	43895	480.7	95.054
100%	Vmax	52812	478.86	94.885	52820	478.86	94.893	52827	478.86	94.892	52813	478.86	94.893	52816	478.86	94.889

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	5409.2	230.06	93.870	5408	230.06	93.884									
20%	Vmin	12159	230.34	94.752	12158	230.34	94.760									
30%	Vmin	17987	230.35	95.077	17988	230.35	95.084									
50%	Vmin	30394	230.29	95.046	30390	230.29	95.039									
75%	Vmin	39064	230.23	94.652	39062	230.24	94.650									
100%	Vmin	52746	230.27	93.909	52746	230.28	93.918									
10%	Vnom	5409.2	390.46	93.996	5410	390.46	93.957									
20%	Vnom	12178	388.77	94.947	12174	388.77	94.942									
30%	Vnom	18014	390.64	95.098	18017	390.64	95.091									
50%	Vnom	30511	388.95	95.488	30510	388.94	95.481									
75%	Vnom	39032	390.64	95.389	39035	390.64	95.393									
100%	Vnom	52747	390.7	94.981	52749	390.71	94.976									
10%	Vmax	5372.1	480.45	93.362	5373	480.45	93.320									
20%	Vmax	12177	480.63	93.923	12181	480.63	93.969									
30%	Vmax	18020	480.72	94.407	18017	480.72	94.407									
50%	Vmax	30524	480.72	95.130	30523	480.72	95.124									
75%	Vmax	43896	480.72	95.059	43894	480.7	95.056									
100%	Vmax	52818	478.85	94.889	52820	478.87	94.901									