Manufacturer: Fronius International GmbH

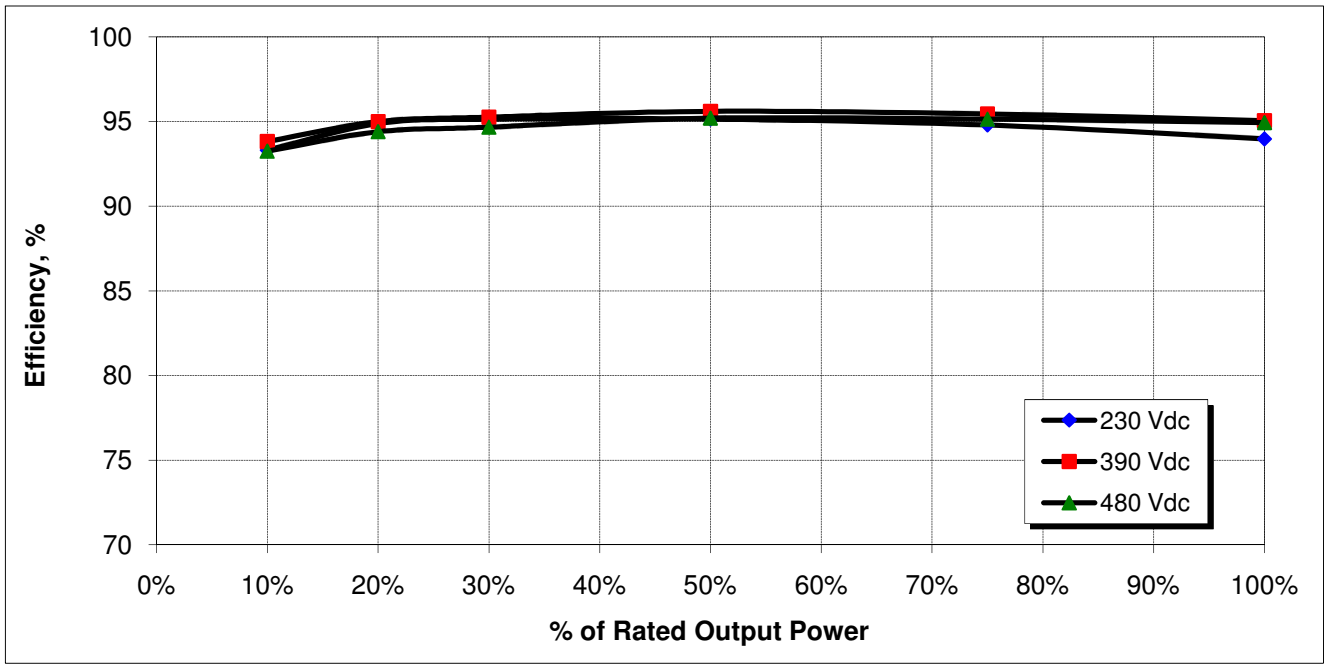
Model #: Fronius CL 44.4 Delta (240 V)

Rated Maximum Continuous Output Power: 44.40 kW Night Tare Loss: 3.92 W

Vmin: 230 Vdc Vnom: 390 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		4.44	8.88	13.32	22.20	33.30	44.40	Wtd
Vmin	230	93.3	94.9	95.1	95.1	94.8	94.0	94.8
Vnom	390	93.8	95.0	95.3	95.6	95.5	95.1	95.4
Vmax	480	93.3	94.4	94.7	95.2	95.1	94.9	95.0

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	4303	228.88	93.306	4304	228.88	93.287	4302	228.88	93.325	4303	228.88	93.298	4305	228.88	93.308
20%	Vmin	9704.7	229.04	94.883	9704	229.04	94.878	9709	229.04	94.893	9710	229.04	94.883	9709	229.03	94.884
30%	Vmin	14343	229.07	95.151	14343	229.07	95.146	14343	229.08	95.152	14341	229.08	95.153	14339	229.08	95.122
50%	Vmin	24329	229.06	95.147	24331	229.07	95.152	24331	229.08	95.151	24329	229.07	95.151	24329	229.07	95.145
75%	Vmin	31243	228.99	94.801	31243	228.99	94.793	31242	228.99	94.798	31240	228.99	94.799	31244	228.99	94.811
100%	Vmin	42227	229.75	93.989	42228	229.73	93.978	42229	229.76	93.985	42218	229.75	93.960	42217	229.76	93.960
10%	Vnom	4321.2	388.69	93.857	4322	388.69	93.796	4322	388.69	93.765	4321	388.69	93.809	4320	388.69	93.889
20%	Vnom	9627.6	388.81	95.050	9626	388.81	95.002	9628	388.81	94.973	9623	388.81	94.965	9627	388.81	94.969
30%	Vnom	14350	388.87	95.269	14345	388.87	95.251	14345	388.87	95.251	14340	388.87	95.237	14341	388.87	95.241
50%	Vnom	24322	388.89	95.640	24318	388.87	95.610	24313	388.89	95.594	24313	388.88	95.590	24311	388.89	95.598
75%	Vnom	31555	388.84	95.479	31548	388.83	95.467	31539	388.84	95.446	31535	388.83	95.436	31541	388.84	95.443
100%	Vnom	42405	388.8	95.070	42404	388.8	95.069	42397	388.8	95.065	42390	388.81	95.042	42388	388.8	95.045
10%	Vmax	4424.1	478.31	93.255	4426	478.31	93.220	4424	478.31	93.250	4424	478.31	93.248	4422	478.31	93.256
20%	Vmax	9655.8	478.48	94.397	9653	478.48	94.324	9661	478.48	94.390	9661	478.49	94.414	9664	478.47	94.443
30%	Vmax	14257	478.54	94.657	14259	478.53	94.641	14259	478.53	94.647	14260	478.53	94.658	14260	478.53	94.664
50%	Vmax	24401	478.61	95.180	24399	478.61	95.177	24414	478.61	95.211	24408	478.61	95.211	24410	478.61	95.214
75%	Vmax	35465	478.52	95.108	35469	478.52	95.124	35480	478.52	95.141	35482	478.52	95.155	35480	478.52	95.153
100%	Vmax	42377	478.48	94.944	42378	478.49	94.931	42376	478.48	94.947	42371	478.48	94.927	42371	478.48	94.930

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	4303.4	228.88	93.282	4301	228.88	93.315									
20%	Vmin	9707.7	229.04	94.892	9709	229.03	94.888									
30%	Vmin	14342	229.08	95.138	14342	229.08	95.151									
50%	Vmin	24330	229.07	95.152	24330	229.07	95.149									
75%	Vmin	31243	228.99	94.794	31245	228.99	94.803									
100%	Vmin	42221	229.73	93.970	42228	229.75	93.984									
10%	Vnom	4317.5	388.69	93.810	4320	388.69	93.780									
20%	Vnom	9624	388.81	94.998	9625	388.81	95.013									
30%	Vnom	14345	388.87	95.281	14349	388.87	95.302									
50%	Vnom	24312	388.88	95.583	24321	388.88	95.623									
75%	Vnom	31539	388.83	95.444	31551	388.84	95.475									
100%	Vnom	42390	388.8	95.042	42403	388.8	95.075									
10%	Vmax	4424.4	478.32	93.299	4425	478.32	93.230									
20%	Vmax	9667.7	478.47	94.407	9664	478.47	94.399									
30%	Vmax	14268	478.52	94.721	14256	478.52	94.669									
50%	Vmax	24405	478.61	95.204	24402	478.61	95.182									
75%	Vmax	35479	478.52	95.149	35470	478.52	95.128									
100%	Vmax	42370	478.49	94.936	42370	478.49	94.931									