Manufacturer: Fronius International GmbH

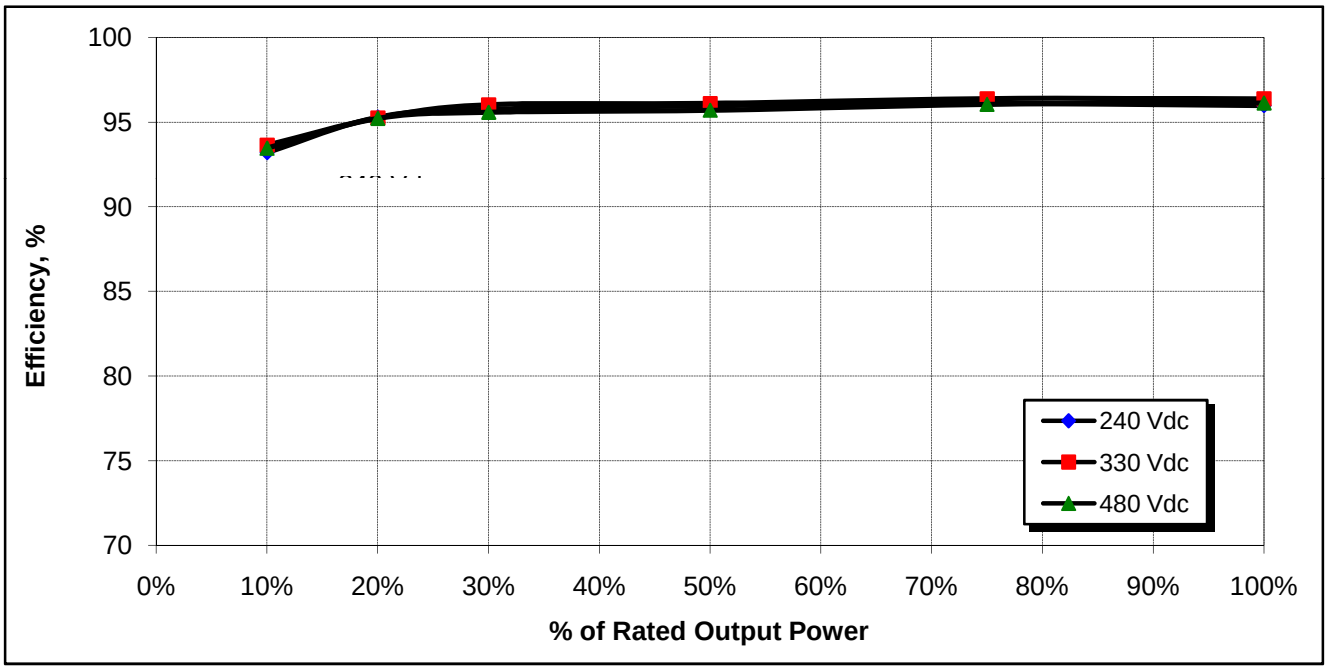
Model #: Fronius IG Plus 5.0-1 UNI (277V)

Rated Maximum Continuous Output Power: 5.00 kW Night Tare Loss: 1.02 W

Vmin: 240 Vdc Vnom: 330 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.50	1.00	1.50	2.50	3.75	5.00	Wtd
Vmin	240	93.2	95.3	95.8	96.0	96.1	96.0	95.9
Vnom	330	93.6	95.3	96.0	96.1	96.4	96.4	96.1
Vmax	480	93.5	95.2	95.6	95.7	96.0	96.1	95.8

CEC Efficiency = 96.0%



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	477.54	238.31	93.187	478	238.31	93.365	478	238.32	93.149	478.1	238.31	93.042	478	238.31	93.180
20%	Vmin	1085.6	238.99	95.331	1085	238.99	95.236	1085	238.98	95.370	1085	238.99	95.246	1086	238.98	95.306
30%	Vmin	1590.9	238.14	95.771	1591	238.14	95.762	1591	238.15	95.744	1591	238.14	95.757	1590	238.14	95.742
50%	Vmin	2673.2	238.31	95.959	2673	238.3	95.990	2673	238.3	95.967	2673	238.31	95.959	2672	238.3	95.957
75%	Vmin	3915.6	238.19	96.126	3915	238.2	96.104	3916	238.2	96.097	3916	238.2	96.102	3916	238.22	96.113
100%	Vmin	4760.7	238.24	95.980	4762	238.26	95.990	4761	238.25	95.968	4761	238.24	95.990	4761	238.26	95.981
10%	Vnom	479.52	328.82	93.567	480	328.82	93.577	479.8	328.82	93.547	480.5	328.83	93.758	479.9	328.82	93.515
20%	Vnom	1081.5	327.83	95.215	1083	327.82	95.344	1083	327.82	95.271	1083	327.83	95.248	1083	327.83	95.226
30%	Vnom	1601.9	328.76	96.007	1602	328.76	96.029	1602	328.76	95.975	1602	328.76	96.050	1602	328.76	96.024
50%	Vnom	2703.9	327.8	96.113	2703	327.8	96.121	2703	327.8	96.123	2702	327.8	96.120	2703	327.8	96.080
75%	Vnom	3883.1	327.78	96.404	3882	327.78	96.393	3882	327.77	96.382	3883	327.78	96.373	3882	327.78	96.390
100%	Vnom	4771.7	327.77	96.377	4771	327.76	96.370	4771	327.77	96.385	4771	327.78	96.377	4771	327.76	96.374
10%	Vmax	470.36	471.74	93.514	469.8	471.75	93.348	469.3	471.74	93.607	471	471.75	93.414	471	471.75	93.413
20%	Vmax	1070.3	473.28	95.255	1071	473.27	95.150	1070	473.28	95.218	1070	473.28	95.186	1069	473.28	95.213
30%	Vmax	1613.2	471.64	95.555	1613	471.64	95.575	1613	471.65	95.556	1614	471.64	95.611	1615	471.64	95.584
50%	Vmax	2726.8	476.67	95.663	2726	476.67	95.680	2727	476.67	95.730	2728	476.67	95.685	2728	476.67	95.693
75%	Vmax	3932.5	476.67	96.054	3932	476.67	96.044	3932	476.67	96.070	3933	476.67	96.006	3932	476.67	96.050
100%	Vmax	4813	476.69	96.125	4812	476.67	96.115	4813	476.68	96.121	4813	476.68	96.138	4811	476.67	96.108

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	479.08	238.33	93.240	478.3	238.32	93.211									
20%	Vmin	1085.6	238.97	95.253	1085	238.98	95.286									
30%	Vmin	1590.5	238.14	95.785	1591	238.14	95.730									
50%	Vmin	2672.4	238.31	95.965	2672	238.31	95.970									
75%	Vmin	3916.5	238.21	96.113	3916	238.19	96.108									
100%	Vmin	4759.7	238.24	95.967	4760	238.25	95.991									
10%	Vnom	479.61	328.83	93.824	479.2	328.83	93.714									
20%	Vnom	1082.9	327.82	95.289	1083	327.82	95.198									
30%	Vnom	1601.8	328.76	96.069	1602	328.76	96.038									
50%	Vnom	2703.1	327.79	96.104	2703	327.8	96.101									
75%	Vnom	3882.7	327.77	96.384	3883	327.78	96.373									
100%	Vnom	4771.3	327.77	96.381	4771	327.77	96.390									
10%	Vmax	471.72	471.75	93.397	471.7	471.75	93.505									
20%	Vmax	1069.9	473.27	95.197	1071	473.28	95.291									
30%	Vmax	1614.1	471.64	95.576	1613	471.65	95.583									
50%	Vmax	2728	476.67	95.688	2728	476.67	95.730									
75%	Vmax	3932.6	476.67	96.038	3932	476.66	96.060									
100%	Vmax	4810.9	476.69	96.125	4810	476.69	96.142									