Manufacturer: Fronius USA

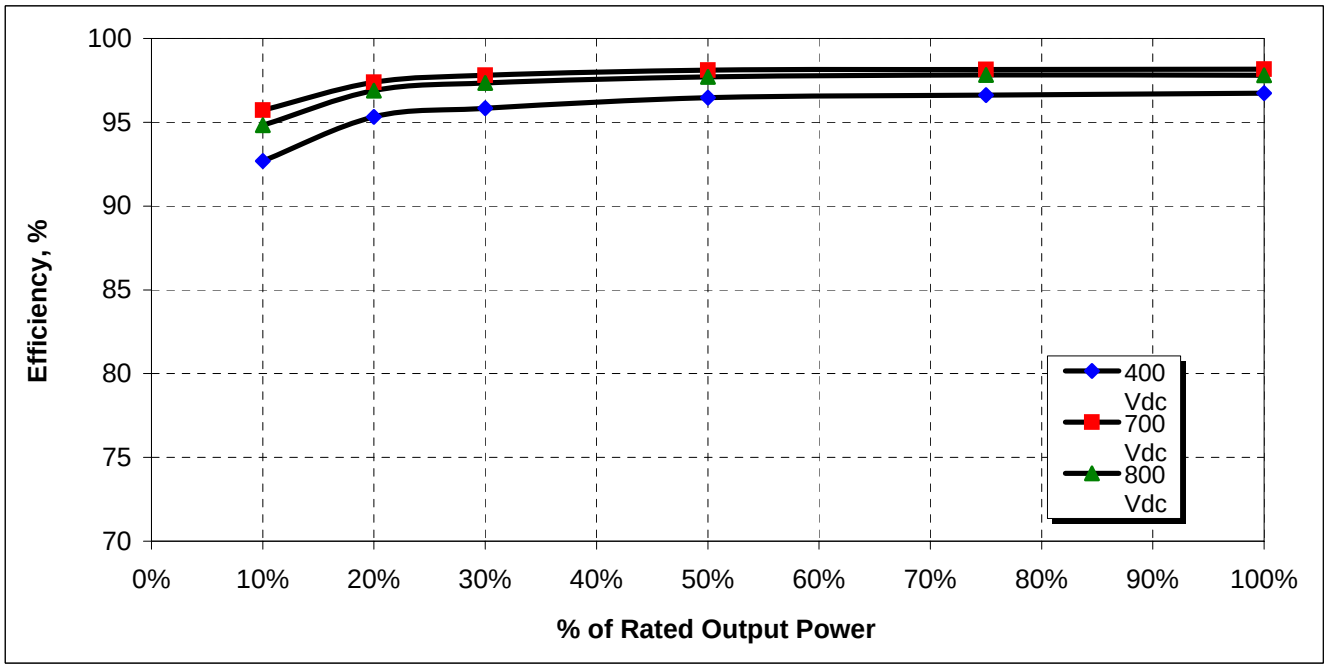
Model #: Fronius Symo 17.5-3 480

Rated Maximum Continuous Output Power: 17.495 kW Night Tare Loss: 1.0 W

Vmin: 400 Vdc Vnom: 700 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		1.75	3.50	5.25	8.75	13.12	17.50	Wtd
Vmin	400	92.7	95.3	95.8	96.5	96.6	96.7	96.3
Vnom	700	95.7	97.4	97.8	98.1	98.1	98.2	98.0
Vmax	800	94.8	96.9	97.4	97.7	97.8	97.8	97.6

CEC Efficiency = 97.5%



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	-1719.73	400.58	92.68	-1719.43	400.43	92.71	-1719.93	400.58	92.68	-1719.87	400.47	92.70	-1720.20	400.63	92.67
20%	Vmin	-3816.47	400.44	95.31	-3816.90	400.43	95.31	-3816.90	400.43	95.32	-3816.90	400.43	95.31	-3816.43	400.43	95.32
30%	Vmin	-5649.20	400.65	95.84	-5648.97	400.66	95.84	-5649.17	400.66	95.83	-5649.17	400.66	95.83	-5649.70	400.65	95.84
50%	Vmin	-9613.73	400.58	96.46	-9614.30	400.58	96.46	-9614.10	400.58	96.46	-9614.07	400.58	96.46	-9614.27	400.59	96.46
75%	Vmin	-12302.33	400.54	96.62	-12303.67	400.53	96.63	-12302.67	400.54	96.63	-12303.00	400.53	96.63	-12302.33	400.55	96.62
100%	Vmin	-16653.33	400.31	96.73	-16653.33	400.31	96.73	-16654.00	400.31	96.73	-16653.67	400.32	96.72	-16654.00	400.32	96.73
10%	Vnom	-1737.10	696.71	95.76	-1737.40	696.68	95.74	-1737.60	696.70	95.65	-1738.10	696.67	95.71	-1738.27	696.56	95.77
20%	Vnom	-3833.27	696.59	97.39	-3833.37	696.60	97.38	-3833.40	696.59	97.39	-3832.30	696.59	97.39	-3832.77	696.60	97.39
30%	Vnom	-5667.70	696.64	97.80	-5667.37	696.64	97.80	-5668.63	696.64	97.80	-5667.57	696.65	97.79	-5667.17	696.65	97.80
50%	Vnom	-9603.43	696.87	98.11	-9603.23	696.88	98.11	-9603.40	696.88	98.11	-9603.57	696.87	98.11	-9603.37	696.87	98.11
75%	Vnom	-12301.33	697.11	98.15	-12302.67	697.10	98.15	-12301.33	697.11	98.15	-12301.67	697.11	98.15	-12301.67	697.11	98.15
100%	Vnom	-16634.33	697.04	98.17	-16633.67	697.01	98.17	-16632.67	697.02	98.17	-16632.00	697.01	98.17	-16632.33	697.02	98.17
10%	Vmax	-1739.10	801.86	94.83	-1737.10	802.02	94.82	-1737.90	801.85	94.82	-1739.30	802.00	94.81	-1738.60	801.84	94.82
20%	Vmax	-3841.40	802.05	96.88	-3841.30	802.04	96.88	-3840.07	802.04	96.88	-3839.97	802.04	96.88	-3840.33	802.04	96.88
30%	Vmax	-5655.20	802.24	97.35	-5655.30	802.24	97.35	-5655.03	802.24	97.35	-5656.30	802.24	97.35	-5656.97	802.24	97.35
50%	Vmax	-9594.70	802.37	97.71	-9594.00	802.36	97.71	-9593.97	802.35	97.71	-9593.47	802.36	97.71	-9592.90	802.35	97.71
75%	Vmax	-12255.33	802.22	97.81	-12256.33	802.22	97.82	-12256.33	802.23	97.82	-12255.67	802.24	97.81	-12255.00	802.23	97.82
100%	Vmax	-16675.00	802.53	97.81	-16674.67	802.52	97.80	-16674.00	802.54	97.80	-16674.67	802.53	97.80	-16674.00	802.53	97.80

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	-1720.13	400.47	92.71	-1720.00	400.63	92.68									
20%	Vmin	-3816.00	400.44	95.31	-3816.90	400.44	95.32									
30%	Vmin	-5649.73	400.66	95.83	-5650.07	400.65	95.84									
50%	Vmin	-9613.90	400.59	96.46	-9613.63	400.59	96.46									
75%	Vmin	-12302.67	400.53	96.62	-12303.00	400.54	96.62									
100%	Vmin	-16654.00	400.31	96.73	-16654.00	400.32	96.73									
10%	Vnom	-1738.17	696.55	95.75	-1737.77	696.57	95.73									
20%	Vnom	-3833.03	696.59	97.39	-3832.30	696.59	97.38									
30%	Vnom	-5667.27	696.64	97.80	-5666.90	696.64	97.80									
50%	Vnom	-9603.27	696.84	98.11	-9603.63	696.86	98.11									
75%	Vnom	-12301.67	697.11	98.15	-12301.00	697.12	98.15									
100%	Vnom	-16632.33	697.02	98.17	-16632.33	697.02	98.17									
10%	Vmax	-1738.10	802.00	94.80	-1738.57	801.85	94.82									
20%	Vmax	-3839.83	802.03	96.88	-3839.97	802.04	96.88									
30%	Vmax	-5656.17	802.24	97.35	-5655.83	802.24	97.35									
50%	Vmax	-9592.80	802.36	97.71	-9593.63	802.35	97.72									
75%	Vmax	-12254.00	802.23	97.81	-12255.00	802.22	97.82									
100%	Vmax	-16673.33	802.53	97.80	-16673.33	802.53	97.80									