Manufacturer: Fronius USA

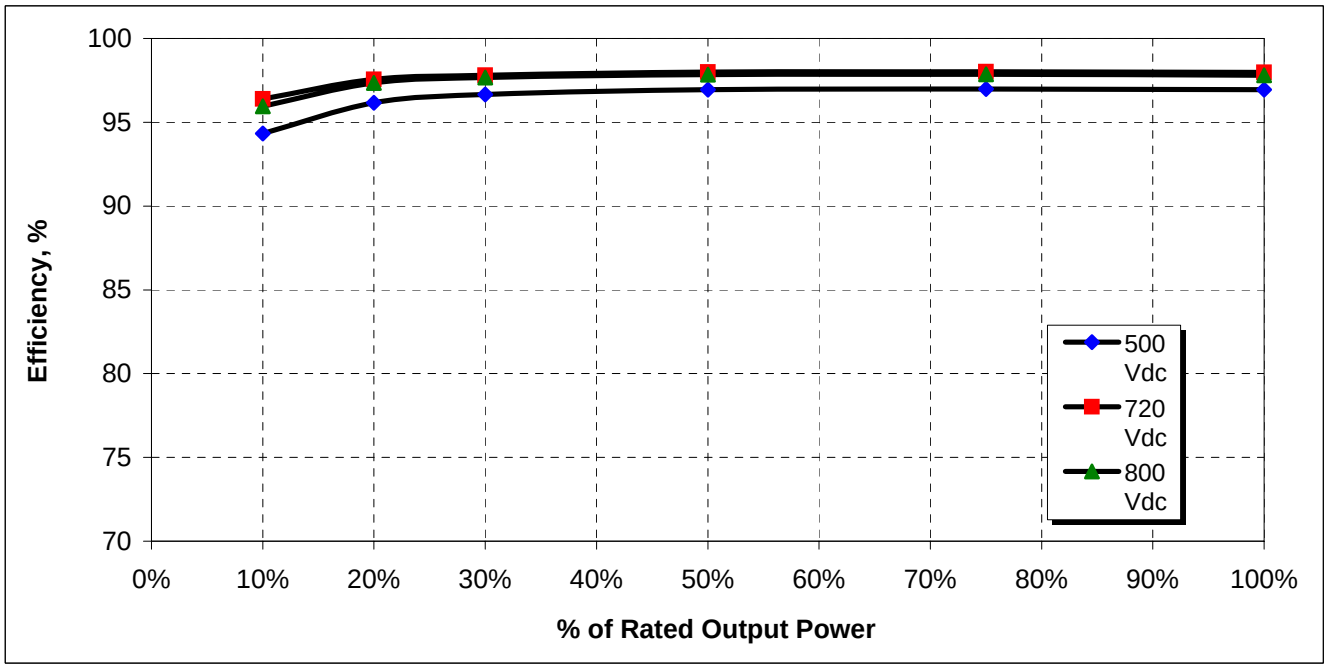
Model #: Fronius Symo 22.7-3 480

Rated Maximum Continuous Output Power: 22.727 kW Night Tare Loss: 1.0 W

Vmin: 500 Vdc Vnom: 720 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		2.27	4.55	6.82	11.36	17.05	22.73	Wtd
Vmin	500	94.3	96.2	96.7	97.0	97.0	96.9	96.8
Vnom	720	96.4	97.6	97.8	98.0	98.0	98.0	97.9
Vmax	800	95.9	97.3	97.7	97.8	97.9	97.8	97.7

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	-2249.03	500.40	94.31	-2249.27	500.40	94.32	-2248.43	500.40	94.32	-2248.77	500.40	94.32	-2248.70	500.41	94.32
20%	Vmin	-4932.30	500.38	96.16	-4931.80	500.37	96.16	-4931.50	500.36	96.16	-4931.73	500.36	96.16	-4932.47	500.37	96.16
30%	Vmin	-7343.23	500.36	96.66	-7342.63	500.35	96.66	-7342.37	500.36	96.66	-7343.17	500.36	96.66	-7343.23	500.35	96.66
50%	Vmin	-12458.33	500.38	96.95	-12457.67	500.38	96.95	-12457.67	500.38	96.95	-12457.00	500.38	96.95	-12458.00	500.38	96.95
75%	Vmin	-15960.33	500.50	96.99	-15960.33	500.51	96.99	-15960.67	500.49	96.99	-15960.67	500.50	96.99	-15961.00	500.49	96.99
100%	Vmin	-21667.33	500.44	96.95	-21667.00	500.44	96.95	-21667.00	500.45	96.95	-21666.00	500.45	96.94	-21667.33	500.45	96.95
10%	Vnom	-2259.83	722.02	96.38	-2259.80	722.00	96.39	-2259.47	722.00	96.39	-2260.33	722.01	96.39	-2260.83	722.00	96.39
20%	Vnom	-4983.73	721.95	97.55	-4983.93	721.95	97.55	-4984.53	721.95	97.55	-4984.40	721.96	97.55	-4985.07	721.95	97.55
30%	Vnom	-7353.63	722.17	97.81	-7353.70	722.17	97.80	-7354.30	722.18	97.80	-7354.97	722.16	97.81	-7354.37	722.17	97.80
50%	Vnom	-12476.00	722.14	98.00	-12475.67	722.14	98.00	-12475.67	722.15	98.00	-12476.67	722.14	98.00	-12476.67	722.14	98.00
75%	Vnom	-15990.67	722.13	98.02	-15991.00	722.16	98.02	-15991.00	722.16	98.02	-15990.00	722.16	98.02	-15990.33	722.16	98.02
100%	Vnom	-21600.67	722.32	97.98	-21601.00	722.32	97.98	-21600.67	722.32	97.98	-21601.00	722.31	97.98	-21601.00	722.31	97.98
10%	Vmax	-2248.70	801.85	95.95	-2248.10	801.85	95.94	-2247.20	801.85	95.94	-2247.77	801.84	95.95	-2247.37	801.83	95.94
20%	Vmax	-4989.17	801.91	97.34	-4988.90	801.92	97.34	-4988.97	801.92	97.33	-4988.50	801.91	97.34	-4988.60	801.91	97.34
30%	Vmax	-7324.07	802.00	97.67	-7323.57	802.00	97.66	-7324.47	801.99	97.67	-7323.43	801.99	97.67	-7323.77	802.00	97.67
50%	Vmax	-12475.33	802.37	97.84	-12476.00	802.38	97.84	-12475.67	802.36	97.84	-12475.00	802.37	97.84	-12475.00	802.37	97.84
75%	Vmax	-15987.67	802.34	97.87	-15987.33	802.33	97.86	-15987.67	802.35	97.86	-15988.33	802.35	97.86	-15988.33	802.35	97.86
100%	Vmax	-21677.33	801.09	97.81	-21677.00	801.08	97.81	-21677.00	801.09	97.81	-21677.67	801.09	97.81	-21676.67	801.07	97.81

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	-2248.50	500.41	94.32	-2249.17	500.40	94.32									
20%	Vmin	-4932.33	500.37	96.16	-4932.13	500.37	96.16									
30%	Vmin	-7343.00	500.36	96.66	-7342.90	500.36	96.66									
50%	Vmin	-12457.00	500.37	96.95	-12457.00	500.38	96.95									
75%	Vmin	-15960.33	500.50	96.99	-15960.00	500.50	96.99									
100%	Vmin	-21667.00	500.46	96.95	-21667.33	500.45	96.95									
10%	Vnom	-2259.17	722.01	96.39	-2259.60	722.01	96.40									
20%	Vnom	-4984.83	721.95	97.55	-4983.70	721.93	97.55									
30%	Vnom	-7354.70	722.17	97.81	-7354.63	722.17	97.81									
50%	Vnom	-12476.00	722.14	98.00	-12476.00	722.14	98.00									
75%	Vnom	-15990.00	722.15	98.02	-15989.67	722.17	98.02									
100%	Vnom	-21600.67	722.33	97.98	-21600.33	722.31	97.98									
10%	Vmax	-2247.10	801.84	95.95	-2247.13	801.84	95.94									
20%	Vmax	-4988.70	801.92	97.34	-4988.57	801.91	97.34									
30%	Vmax	-7323.40	801.99	97.67	-7324.30	802.00	97.67									
50%	Vmax	-12474.67	802.38	97.84	-12475.33	802.38	97.84									
75%	Vmax	-15988.67	802.35	97.86	-15987.00	802.35	97.86									
100%	Vmax	-21677.33	801.08	97.81	-21676.33	801.08	97.81									