Manufacturer: Samil Power Co., Ltd

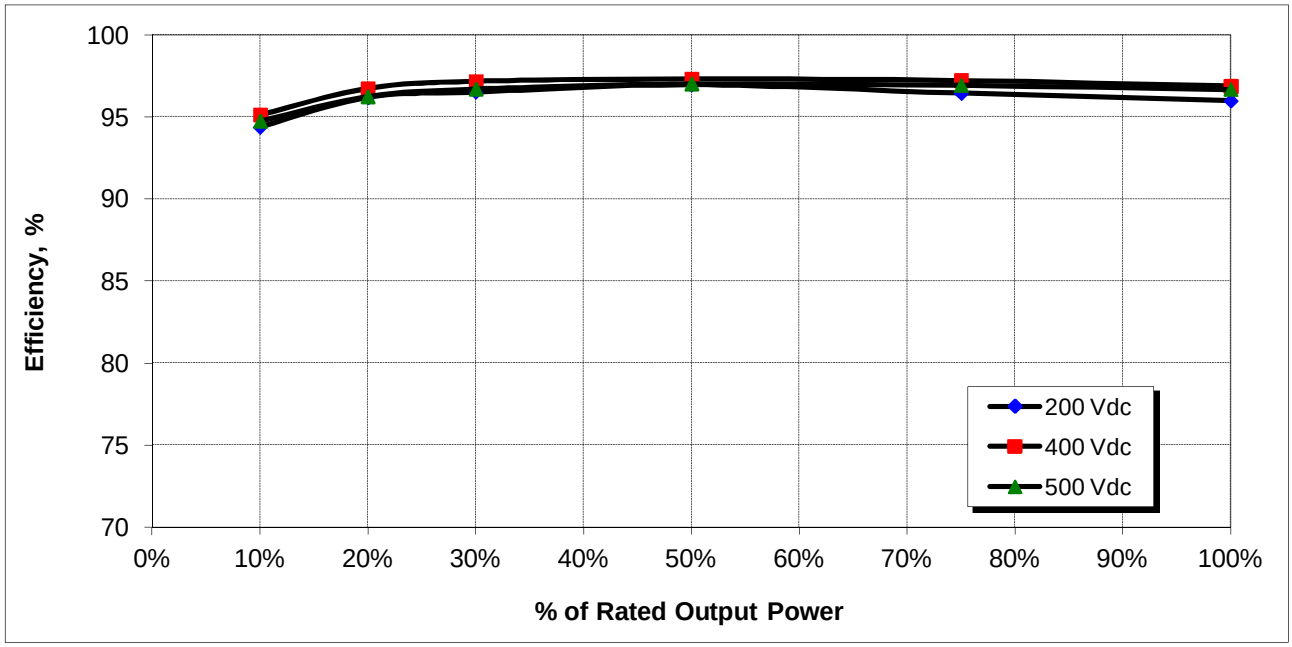
Model #: SolarRiver4000TL-US-208V

Rated Maximum Continuous Output Power @25°C: 4.000 kW Night Tare Loss: 0.21 W
Rated Maximum Continuous Output Power @40°C: 4.000 kW Night Tare Loss: 0.21 W

Vmin: 200 Vdc Vnom: 400 Vdc Vmax: 500 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.40	0.80	1.20	2.00	3.00	4.00	Wtd
Vmin	200	94.4	96.2	96.5	97.0	96.4	96.0	96.438
Vnom	400	95.1	96.7	97.2	97.3	97.2	96.9	97.098
Vmax	500	94.7	96.2	96.7	97.0	96.9	96.7	96.785

CEC Efficiency = 97.0%



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	447.5	204.2	94.44	447.6	204.3	94.42	447.3	204.3	94.40	447.2	204.3	94.37	447.0	204.3	94.35
20%	Vmin	805.8	204.7	96.26	805.8	204.7	96.23	805.9	204.4	96.22	805.9	204.3	96.19	805.2	204.6	96.16
30%	Vmin	1218.5	204.3	96.51	1218.2	204.5	96.50	1218.2	204.3	96.50	1218.2	204.3	96.49	1217.8	204.2	96.50
50%	Vmin	2053.3	203.4	96.98	2053.3	203.7	96.98	2053.4	203.5	96.98	2053.2	203.7	96.97	2052.5	203.7	96.95
75%	Vmin	2886.9	202.9	96.49	2886.9	202.5	96.48	2885.3	203.2	96.47	2884.7	202.9	96.44	2884.0	203.5	96.40
100%	Vmin	3825.2	203.0	95.93	3824.9	203.0	95.94	3826.3	203.1	95.95	3828.9	203.3	95.97	3827.7	202.9	96.00
10%	Vnom	452.0	407.2	95.00	450.9	408.0	95.03	453.1	406.2	95.03	452.7	407.2	95.09	455.4	406.3	95.35
20%	Vnom	815.2	407.4	96.76	814.9	407.7	96.78	814.6	407.2	96.74	814.8	407.5	96.69	814.6	407.5	96.72
30%	Vnom	1233.1	406.7	97.20	1232.9	406.8	97.15	1234.0	406.2	97.18	1231.5	407.0	97.10	1233.5	406.8	97.13
50%	Vnom	2073.4	405.7	97.40	2073.7	405.2	97.35	2071.5	405.6	97.33	2071.6	405.4	97.30	2072.0	405.6	97.29
75%	Vnom	2878.8	404.1	97.14	2878.8	404.1	97.17	2880.1	404.1	97.20	2881.3	404.1	97.23	2881.3	404.1	97.23
100%	Vnom	3841.2	403.1	96.86	3840.8	402.9	96.87	3841.1	402.8	96.87	3841.2	402.8	96.87	3840.5	402.9	96.88
10%	Vmax	453.7	499.1	94.76	453.9	499.4	94.84	453.6	499.1	94.81	453.2	499.0	94.73	454.4	499.1	94.87
20%	Vmax	812.1	499.3	96.29	813.1	499.6	96.37	812.0	499.3	96.24	812.3	499.5	96.22	812.3	499.5	96.20
30%	Vmax	1220.5	498.9	96.72	1220.1	498.9	96.68	1220.5	498.5	96.70	1221.8	498.7	96.72	1219.6	499.0	96.70
50%	Vmax	2066.8	498.0	97.01	2067.3	497.7	96.99	2066.1	497.7	96.97	2067.7	497.7	97.01	2068.0	497.5	97.04
75%	Vmax	2875.6	496.8	97.01	2873.9	496.9	96.96	2872.7	496.9	96.95	2873.5	496.9	96.94	2871.1	497.0	96.89
100%	Vmax	3853.1	495.6	96.57	3853.5	495.6	96.60	3855.5	495.6	96.66	3857.1	495.9	96.67	3857.7	495.7	96.72

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	446.9	204.3	94.32	446.7	204.3	94.30									
20%	Vmin	805.0	204.6	96.13	804.5	204.5	96.10									
30%	Vmin	1218.0	204.4	96.51	1218.2	204.4	96.53									
50%	Vmin	2052.4	203.6	96.93	2051.6	203.8	96.90									
75%	Vmin	2883.0	202.8	96.38	2884.6	202.8	96.43									
100%	Vmin	3829.4	202.9	96.02	3830.7	202.9	96.06									
10%	Vnom	453.4	406.8	95.10	455.2	405.7	95.26									
20%	Vnom	815.3	407.6	96.80	813.4	407.4	96.60									
30%	Vnom	1233.4	406.8	97.19	1231.5	407.2	97.18									
50%	Vnom	2070.5	405.9	97.22	2070.8	405.4	97.23									
75%	Vnom	2881.9	404.1	97.25	2882.4	403.9	97.26									
100%	Vnom	3839.1	402.8	96.84	3840.0	402.8	96.84									
10%	Vmax	453.4	499.2	94.66	452.9	499.0	94.57									
20%	Vmax	811.9	499.4	96.17	812.1	499.5	96.19									
30%	Vmax	1219.8	499.2	96.70	1219.5	498.9	96.67									
50%	Vmax	2068.3	497.6	97.04	2068.2	497.8	97.05									
75%	Vmax	2870.8	497.0	96.86	2870.9	496.8	96.88									
100%	Vmax	3859.5	495.7	96.75	3860.6	495.8	96.77									