Manufacturer: Samil Power Co., Ltd

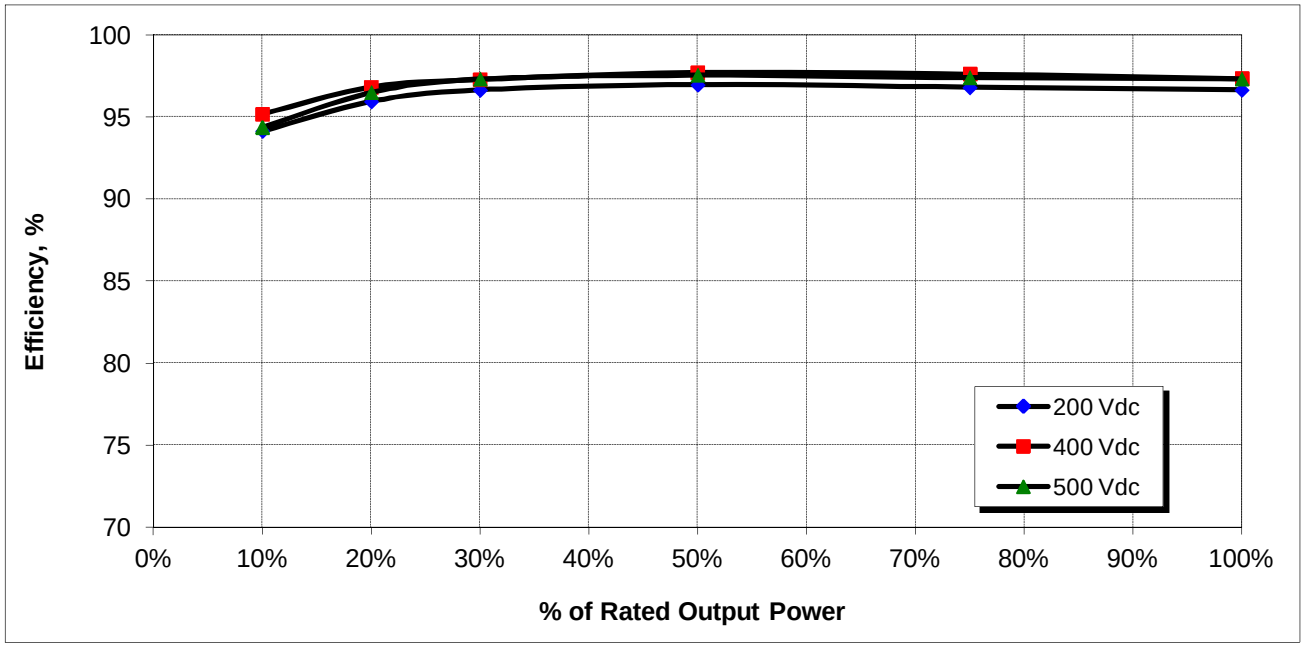
Model #: SolarRiver4000TL-US-240V

Rated Maximum Continuous Output Power @25°C: 4.000 kW Night Tare Loss: 0.64 W
Rated Maximum Continuous Output Power @40°C: 4.000 kW Night Tare Loss: 0.64 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	94.1	95.9	96.6	97.0	96.8	96.6	96.647
Vnom	400	95.2	96.8	97.3	97.7	97.6	97.3	97.437
Vmax	500	94.4	96.5	97.3	97.5	97.4	97.3	97.240

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	416.5	204.1	94.03	416.7	203.9	94.06	416.9	203.9	94.10	416.9	204.3	94.12	417.1	204.2	94.18
20%	Vmin	805.1	204.4	96.00	804.6	204.4	95.97	804.6	204.3	95.93	804.6	204.3	95.91	804.2	204.3	95.90
30%	Vmin	1259.3	204.6	96.66	1259.7	204.4	96.64	1259.2	204.4	96.62	1258.4	204.4	96.61	1258.6	204.5	96.61
50%	Vmin	1863.3	204.0	96.86	1862.9	204.1	96.89	1864.8	203.8	96.91	1865.3	204.1	96.94	1866.4	204.3	96.99
75%	Vmin	2853.7	203.5	96.77	2854.0	203.4	96.76	2854.5	203.4	96.80	2854.0	203.4	96.77	2854.9	203.4	96.81
100%	Vmin	3856.1	203.1	96.53	3856.8	203.1	96.57	3858.5	203.3	96.61	3862.4	203.5	96.65	3861.2	203.3	96.67
10%	Vnom	419.4	403.4	95.12	419.2	403.8	95.00	419.5	403.4	95.03	420.3	403.4	95.20	420.3	403.9	95.28
20%	Vnom	815.5	404.1	96.77	816.8	404.3	96.76	816.8	404.5	96.78	817.6	404.4	96.83	816.6	404.6	96.81
30%	Vnom	1306.8	406.3	97.33	1306.0	406.4	97.26	1305.1	406.7	97.28	1306.3	406.3	97.28	1305.6	406.4	97.24
50%	Vnom	1844.5	405.6	97.73	1844.5	405.5	97.74	1844.6	405.3	97.71	1844.6	406.0	97.72	1844.2	405.7	97.71
75%	Vnom	2893.2	404.1	97.61	2894.8	404.1	97.66	2893.1	404.1	97.60	2894.3	404.1	97.64	2894.0	403.7	97.63
100%	Vnom	3842.3	403.2	97.41	3839.7	402.9	97.41	3838.7	402.7	97.36	3838.2	403.0	97.34	3835.9	403.0	97.31
10%	Vmax	414.5	499.4	94.29	415.5	499.0	94.49	415.6	498.8	94.44	414.9	498.9	94.28	414.2	499.2	94.20
20%	Vmax	832.0	499.6	96.61	831.3	499.6	96.50	831.2	499.6	96.54	830.8	499.6	96.50	830.0	499.5	96.41
30%	Vmax	1306.7	499.0	97.30	1307.0	499.0	97.31	1306.4	498.9	97.31	1306.6	498.9	97.32	1307.3	498.9	97.33
50%	Vmax	1839.3	498.3	97.49	1839.1	498.5	97.51	1839.3	498.5	97.55	1839.9	498.7	97.56	1841.1	498.6	97.55
75%	Vmax	2828.8	496.9	97.48	2889.7	496.7	97.47	2887.9	496.4	97.42	2886.3	496.5	97.37	2885.6	496.8	97.34
100%	Vmax	3940.0	495.8	97.37	3939.1	496.1	97.37	3939.3	495.9	97.35	3938.3	495.8	97.34	3936.6	496.3	97.29

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	417.0	204.1	94.15	417.2	204.0	94.19									
20%	Vmin	804.3	204.3	95.89	804.5	204.3	95.89									
30%	Vmin	1259.4	204.4	96.62	1259.3	204.5	96.63									
50%	Vmin	1866.3	204.1	97.02	1867.5	203.9	97.06									
75%	Vmin	2853.7	203.4	96.77	2856.1	203.4	96.84									
100%	Vmin	3862.8	203.3	96.71	3863.6	203.2	96.73									
10%	Vnom	419.8	403.6	95.18	420.7	402.9	95.33									
20%	Vnom	817.3	404.5	96.87	818.0	404.4	96.88									
30%	Vnom	1305.1	406.6	97.27	1305.8	406.3	97.27									
50%	Vnom	1843.4	405.6	97.66	1842.6	405.6	97.61									
75%	Vnom	2893.1	404.1	97.59	2891.9	404.1	97.55									
100%	Vnom	3834.4	402.9	97.27	3835.0	403.0	97.23									
10%	Vmax	415.7	499.1	94.49	414.9	499.4	94.39									
20%	Vmax	830.9	499.5	96.42	830.4	499.5	96.40									
30%	Vmax	1307.2	498.9	97.33	1304.5	498.9	97.28									
50%	Vmax	1841.6	498.5	97.58	1840.3	498.7	97.58									
75%	Vmax	2884.6	497.0	97.32	2883.3	496.9	97.28									
100%	Vmax	3882.3	495.8	97.28	3916.0	495.7	97.25									