Manufacturer: Samil Power Co., Ltd

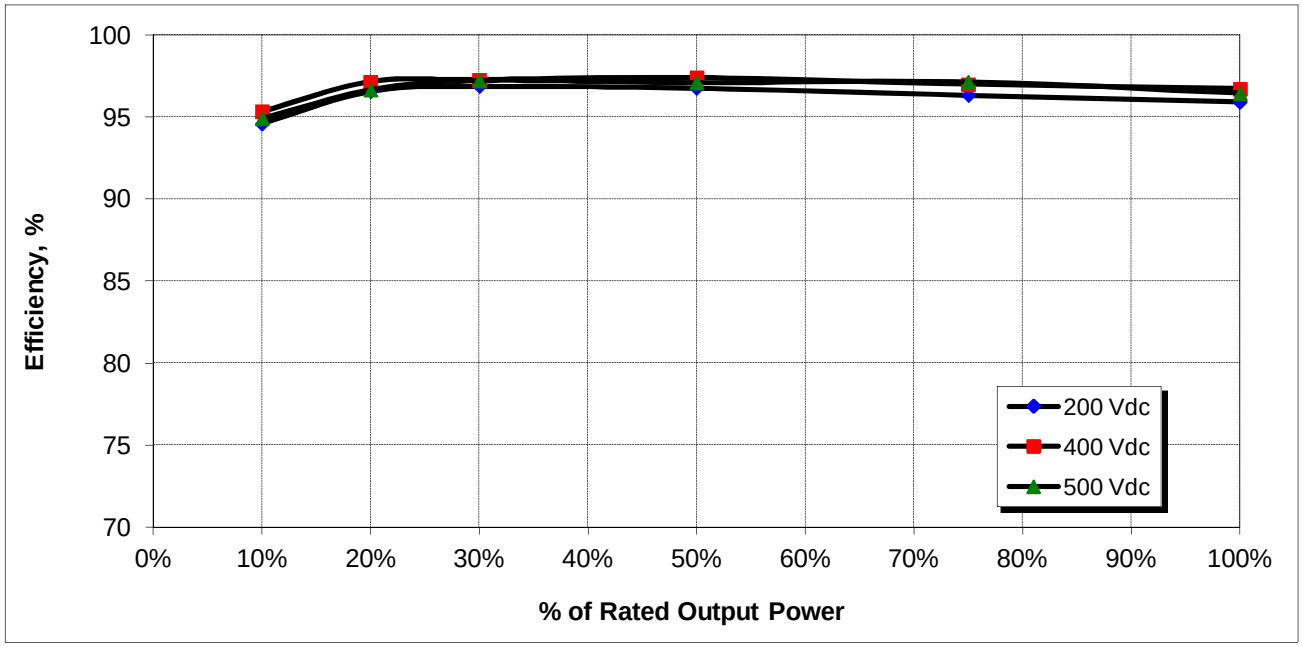
Model #: SolarRiver5000TL-US-208V

Rated Maximum Continuous Output Power @25°C: 5.000 kW Night Tare Loss: 0.31 W
Rated Maximum Continuous Output Power @40°C: 5.000 kW Night Tare Loss: 0.31 W

Vmin: 200 Vdc Vnom: 400 Vdc Vmax: 500 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	200	94.6	96.6	96.9	96.7	96.3	95.9	96.390
Vnom	400	95.3	97.1	97.2	97.4	97.0	96.7	97.016
Vmax	500	94.9	96.6	97.2	97.1	97.1	96.4	96.967

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	492.4	203.9	94.49	492.3	203.9	94.50	492.5	203.8	94.53	492.6	203.9	94.57	492.6	203.8	94.61
20%	Vmin	1067.6	204.2	96.62	1067.4	204.1	96.61	1067.1	204.1	96.59	1066.7	204.0	96.55	1066.6	204.2	96.55
30%	Vmin	1624.2	203.9	96.84	1624.8	203.5	96.87	1625.4	203.7	96.90	1624.0	203.9	96.82	1624.2	203.9	96.84
50%	Vmin	2233.1	203.7	96.68	2235.2	203.8	96.71	2233.9	203.7	96.71	2233.9	203.8	96.75	2235.1	204.1	96.74
75%	Vmin	3525.9	202.6	96.22	3527.2	202.3	96.24	3528.5	202.6	96.28	3529.6	202.5	96.30	3530.6	202.7	96.34
100%	Vmin	4777.7	202.2	95.89	4778.8	202.3	95.92	4779.0	202.1	95.93	4779.3	202.2	95.93	4778.9	202.2	95.92
10%	Vnom	502.1	403.9	95.29	502.1	404.2	95.31	502.9	403.7	95.35	502.7	403.8	95.36	501.7	404.0	95.19
20%	Vnom	1078.3	404.1	97.04	1078.3	404.1	97.09	1079.3	404.1	97.16	1079.8	403.4	97.13	1078.5	404.4	97.12
30%	Vnom	1620.3	403.2	97.34	1617.8	403.2	97.18	1617.7	403.4	97.19	1618.8	403.2	97.22	1619.1	403.2	97.25
50%	Vnom	2262.5	405.1	97.26	2264.2	405.1	97.31	2264.5	405.3	97.34	2266.7	405.2	97.40	2266.8	405.3	97.42
75%	Vnom	3536.6	403.1	96.91	3536.9	403.1	96.91	3539.1	403.1	96.96	3538.6	403.1	96.96	3540.7	402.9	97.00
100%	Vnom	4792.1	401.2	96.67	4795.0	401.3	96.71	4794.6	401.2	96.71	4795.9	401.6	96.71	4795.2	401.5	96.71
10%	Vmax	501.4	499.0	94.80	501.1	499.1	94.80	502.2	499.1	94.98	501.8	499.0	94.90	502.1	499.0	94.90
20%	Vmax	1074.8	499.8	96.74	1075.8	499.3	96.70	1076.9	499.1	96.74	1073.4	499.8	96.64	1073.4	499.1	96.55
30%	Vmax	1618.5	498.5	97.26	1618.5	498.6	97.23	1617.4	498.5	97.18	1617.4	498.5	97.20	1617.3	498.7	97.19
50%	Vmax	2265.0	498.0	97.02	2246.3	497.8	97.02	2257.2	497.8	97.03	2257.9	497.8	97.06	2257.5	497.8	97.05
75%	Vmax	3524.3	496.2	97.11	3523.9	496.4	97.11	3525.1	495.8	97.14	3526.8	496.0	97.14	3524.7	495.9	97.12
100%	Vmax	4806.1	494.3	96.40	4806.9	494.5	96.40	4806.7	494.3	96.41	4806.4	494.5	96.41	4807.6	494.4	96.43

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	492.8	203.8	94.65	493.6	203.8	94.69									
20%	Vmin	1066.3	203.9	96.50	1065.0	204.2	96.46									
30%	Vmin	1624.0	203.9	96.82	1624.8	203.5	96.90									
50%	Vmin	2236.8	203.6	96.78	2236.6	203.8	96.83									
75%	Vmin	3532.7	202.7	96.38	3534.1	202.5	96.41									
100%	Vmin	4777.9	202.2	95.90	4777.0	202.3	95.88									
10%	Vnom	502.2	403.9	95.30	502.4	404.1	95.37									
20%	Vnom	1078.9	404.1	97.17	1080.2	403.9	97.21									
30%	Vnom	1618.7	403.2	97.26	1620.4	403.0	97.30									
50%	Vnom	2267.1	405.3	97.45	2268.1	405.0	97.47									
75%	Vnom	3540.4	403.1	97.01	3541.3	403.1	97.03									
100%	Vnom	4794.9	401.3	96.71	4794.9	401.2	96.69									
10%	Vmax	501.5	499.1	94.89	501.8	499.0	94.99									
20%	Vmax	1073.9	499.2	96.55	1074.1	499.1	96.50									
30%	Vmax	1615.9	498.5	97.10	1617.4	498.4	97.15									
50%	Vmax	2259.3	497.8	97.11	2260.1	497.8	97.14									
75%	Vmax	3525.1	496.2	97.12	3524.8	496.2	97.11									
100%	Vmax	4808.8	494.6	96.45	4810.9	494.4	96.49									