Manufacturer: Samil Power Co., Ltd

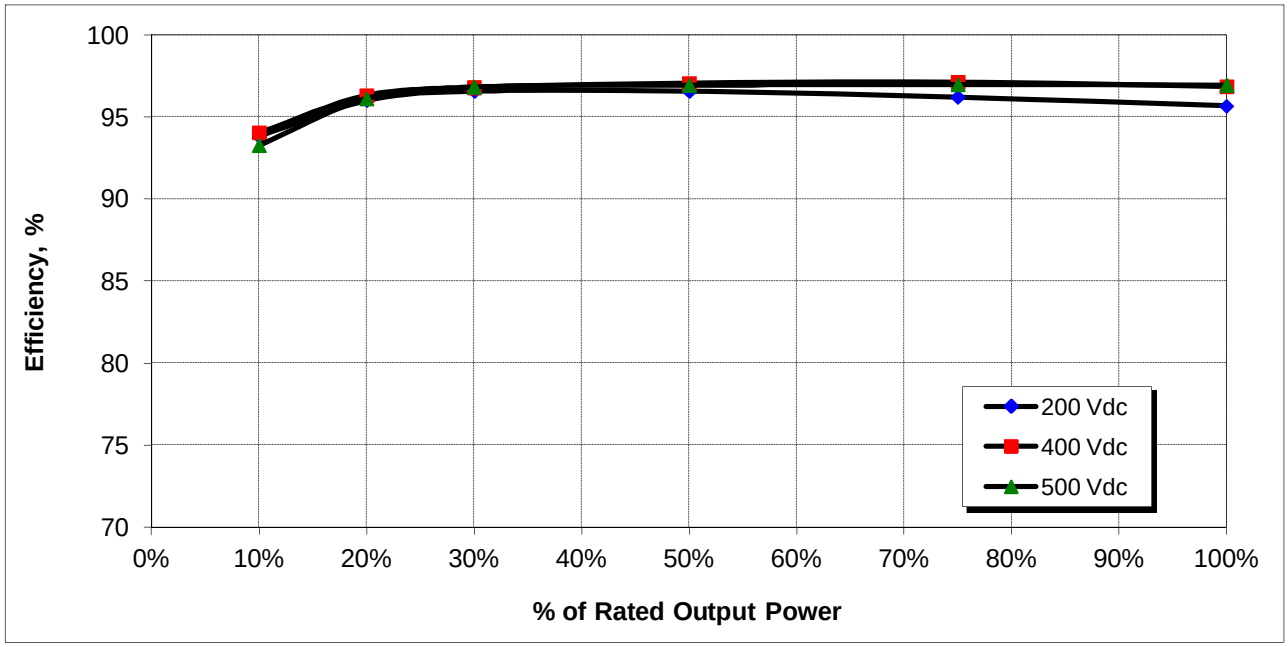
Model #: SolarRiver3000TL–US-208V

Rated Maximum Continuous Output Power @25°C: 3.000 kW Night Tare Loss: 0.22 W
Rated Maximum Continuous Output Power @40°C: 3.000 kW Night Tare Loss: 0.22 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.30	0.60	0.90	1.50	2.25	3.00	Wtd
Vmin	200	93.8	96.0	96.6	96.6	96.2	95.7	96.187
Vnom	400	94.0	96.3	96.8	97.0	97.1	96.8	96.886
Vmax	500	93.3	96.1	96.8	96.9	97.0	96.9	96.742

CEC Efficiency = 96.5%



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	318.9	203.9	93.77	318.9	204.2	93.80	319.2	204.1	93.80	319.1	204.3	93.81	319.0	204.1	93.77
20%	Vmin	644.3	204.5	95.97	644.6	204.3	95.99	644.9	204.3	96.00	644.8	204.0	96.01	645.1	204.1	96.01
30%	Vmin	990.2	204.5	96.48	990.7	204.5	96.51	990.9	204.5	96.55	991.3	204.5	96.57	991.6	204.5	96.59
50%	Vmin	1506.4	203.4	96.67	1505.7	203.4	96.63	1505.3	203.4	96.60	1484.3	203.4	96.56	1474.2	203.4	96.54
75%	Vmin	2121.6	202.8	96.26	2121.1	202.8	96.25	2121.4	202.9	96.21	2120.3	202.9	96.19	2119.5	202.7	96.16
100%	Vmin	2850.8	202.4	95.71	2859.0	202.2	95.68	2878.0	201.9	95.66	2878.1	201.8	95.64	2877.6	201.9	95.63
10%	Vnom	322.2	403.1	94.10	321.4	403.6	93.96	320.7	402.0	94.02	321.4	403.3	93.90	321.8	404.1	94.06
20%	Vnom	651.8	404.0	96.40	651.5	403.9	96.37	651.3	404.0	96.30	651.2	403.9	96.31	651.2	403.9	96.30
30%	Vnom	988.6	406.8	96.76	988.3	406.8	96.74	989.0	406.6	96.76	989.8	406.8	96.77	990.5	406.3	96.79
50%	Vnom	1441.6	406.1	97.02	1444.1	405.6	97.09	1444.3	405.7	97.08	1461.2	405.6	97.05	1484.6	405.5	97.06
75%	Vnom	2146.4	404.2	97.06	2149.1	404.0	97.18	2148.6	403.9	97.18	2147.6	404.0	97.13	2147.2	404.1	97.13
100%	Vnom	2859.9	402.9	96.76	2860.2	403.3	96.78	2859.8	403.0	96.80	2863.3	402.7	96.87	2864.1	403.1	96.90
10%	Vmax	306.7	499.3	93.25	307.0	499.1	93.43	307.0	499.0	93.36	307.3	499.2	93.44	306.0	499.2	93.15
20%	Vmax	647.5	499.2	95.91	648.4	499.0	95.98	648.6	499.0	96.04	648.3	499.2	96.01	649.2	499.2	96.08
30%	Vmax	990.5	498.9	96.73	990.7	499.0	96.77	991.6	499.2	96.82	990.2	499.2	96.85	991.5	498.9	96.88
50%	Vmax	1444.8	498.3	97.01	1443.5	498.0	96.96	1443.2	498.2	96.93	1443.1	498.2	96.91	1442.9	498.2	96.89
75%	Vmax	2142.8	496.9	96.87	2143.3	497.1	96.89	2143.9	497.2	96.94	2144.9	497.2	96.97	2145.8	497.1	96.99
100%	Vmax	2863.5	496.1	96.88	2863.9	495.8	96.89	2864.5	496.2	96.91	2866.1	496.0	96.94	2867.1	496.0	96.97

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	319.0	204.1	93.79	318.9	204.1	93.77									
20%	Vmin	645.0	204.1	96.00	645.3	204.2	96.01									
30%	Vmin	991.6	204.5	96.61	991.7	204.3	96.64									
50%	Vmin	1474.0	203.6	96.51	1473.5	203.6	96.48									
75%	Vmin	2119.2	202.8	96.16	2119.4	202.8	96.15									
100%	Vmin	2878.0	202.1	95.64	2878.4	202.2	95.63									
10%	Vnom	321.7	403.1	94.10	322.2	403.5	94.16									
20%	Vnom	650.6	403.4	96.23	650.3	403.9	96.20									
30%	Vnom	991.1	406.7	96.82	990.1	406.6	96.82									
50%	Vnom	1497.6	405.5	97.02	1497.2	405.6	97.02									
75%	Vnom	2146.0	404.2	97.09	2146.5	404.2	97.07									
100%	Vnom	2863.8	403.1	96.88	2863.9	403.1	96.91									
10%	Vmax	306.0	499.2	93.13	306.1	499.2	93.03									
20%	Vmax	649.2	499.3	96.13	644.0	498.9	96.60									
30%	Vmax	992.0	498.9	96.88	990.9	498.9	96.77									
50%	Vmax	1442.2	498.2	96.88	1441.4	498.2	96.86									
75%	Vmax	2146.1	497.3	97.03	2146.3	497.2	97.03									
100%	Vmax	2867.7	496.0	96.96	2865.6	496.3	96.97									