Manufacturer: Samil Power Co., Ltd

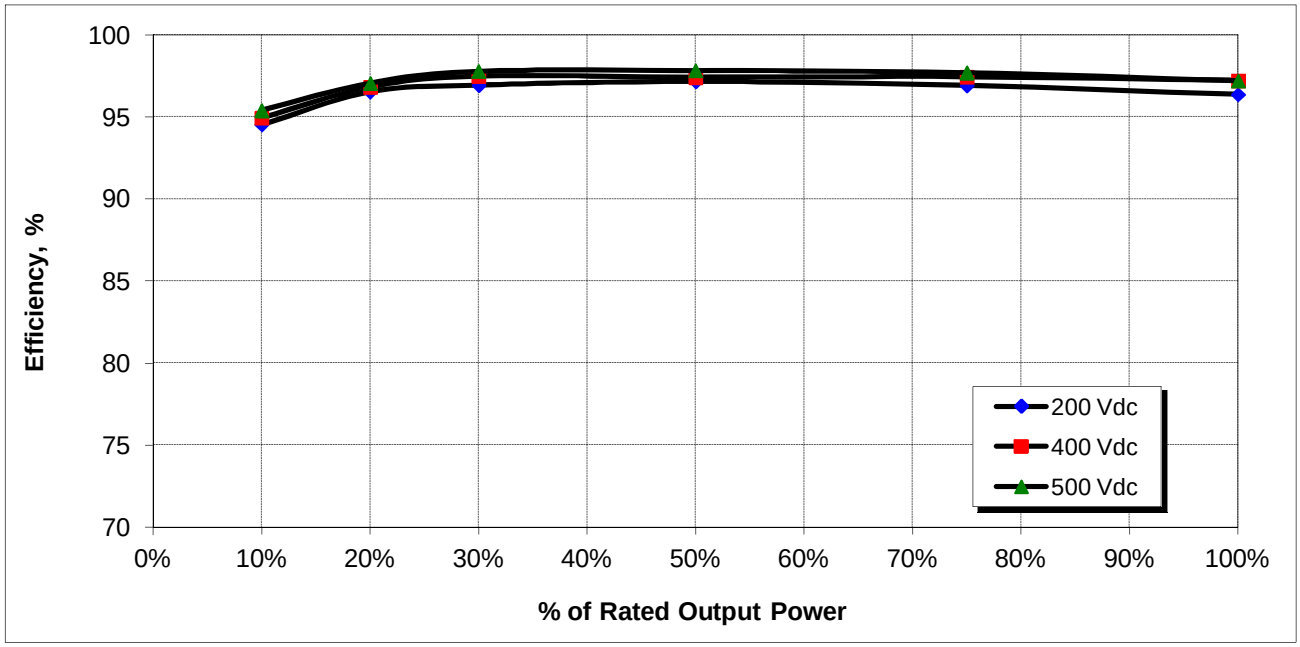
Model #: SolarRiver6000TL -US-277 V

Rated Maximum Continuous Output Power @25°C: 6.000 kW Night Tare Loss: 0.85 W
Rated Maximum Continuous Output Power @40°C: 6.000 kW Night Tare Loss: 0.85 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.60	1.20	1.80	3.00	4.50	6.00	Wtd
Vmin	200	94.5	96.5	96.9	97.1	96.9	96.4	96.816
Vnom	400	94.9	96.8	97.5	97.4	97.4	97.2	97.286
Vmax	500	95.4	97.0	97.8	97.8	97.7	97.2	97.567

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	598	205	94.45	598	204	94.47	598	205	94.49	598	204	94.51	598	204	94.52
20%	Vmin	1218	204	96.54	1218	204	96.55	1218	204	96.55	1218	204	96.54	1218	204	96.52
30%	Vmin	2144	204	97.02	2143	204	96.98	2142	204	96.95	2142	204	96.92	2141	204	96.88
50%	Vmin	2771	204	97.14	2771	204	97.15	2771	204	97.16	2768	204	97.09	2771	204	97.17
75%	Vmin	4264	203	96.86	4264	203	96.89	4266	203	96.91	4265	203	96.93	4266	203	96.93
100%	Vmin	5731	202	96.46	5729	202	96.43	5727	202	96.40	5726	202	96.37	5722	202	96.33
10%	Vnom	605	407	94.94	604	407	94.91	605	407	94.89	603	408	94.90	604	407	94.93
20%	Vnom	1233	380	97.01	1236	380	97.11	1236	380	97.01	1230	380	96.64	1229	380	96.62
30%	Vnom	2125	407	97.57	2125	406	97.55	2124	407	97.52	2122	407	97.48	2122	407	97.44
50%	Vnom	2799	406	97.48	2798	406	97.44	2797	405	97.38	2797	406	97.42	2796	405	97.36
75%	Vnom	4222	404	97.35	4224	404	97.37	4225	403	97.38	4227	404	97.45	4228	403	97.45
100%	Vnom	5735	403	97.23	5739	402	97.26	5737	402	97.23	5738	402	97.25	5731	402	97.12
10%	Vmax	608	499	95.36	609	499	95.48	608	499	95.27	608	499	95.38	608	499	95.38
20%	Vmax	1233	499	97.15	1233	499	97.10	1232	500	97.06	1232	500	97.05	1232	499	97.01
30%	Vmax	2130	498	97.80	2130	498	97.79	2129	498	97.73	2130	498	97.79	2129	498	97.78
50%	Vmax	2801	497	97.60	2808	497	97.81	2807	497	97.81	2809	497	97.84	2809	497	97.85
75%	Vmax	4240	496	97.76	4240	496	97.75	4237	496	97.72	4237	495	97.68	4235	496	97.66
100%	Vmax	5826	494	97.19	5824	495	97.17	5823	494	97.17	5824	494	97.16	5825	494	97.16

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	598	204	94.55	599	204	94.58									
20%	Vmin	1218	204	96.49	1217	204	96.46									
30%	Vmin	2140	204	96.85	2140	204	96.83									
50%	Vmin	2771	204	97.15	2772	204	97.18									
75%	Vmin	4266	203	96.92	4265	203	96.91									
100%	Vmin	5719	202	96.28	5718	202	96.24									
10%	Vnom	604	407	94.95	604	407	94.96									
20%	Vnom	1229	380	96.61	1227	380	96.61									
30%	Vnom	2122	406	97.40	2122	406	97.36									
50%	Vnom	2796	405	97.36	2795	406	97.37									
75%	Vnom	4230	404	97.49	4231	404	97.51									
100%	Vnom	5734	403	97.19	5732	403	97.14									
10%	Vmax	608	499	95.36	609	499	95.45									
20%	Vmax	1230	499	97.00	1230	500	96.96									
30%	Vmax	2128	498	97.74	2128	498	97.71									
50%	Vmax	2809	498	97.87	2809	497	97.88									
75%	Vmax	4233	496	97.61	4232	496	97.57									
100%	Vmax	5825	494	97.20	5826	494	97.20									