Manufacturer: Samil Power Co., Ltd

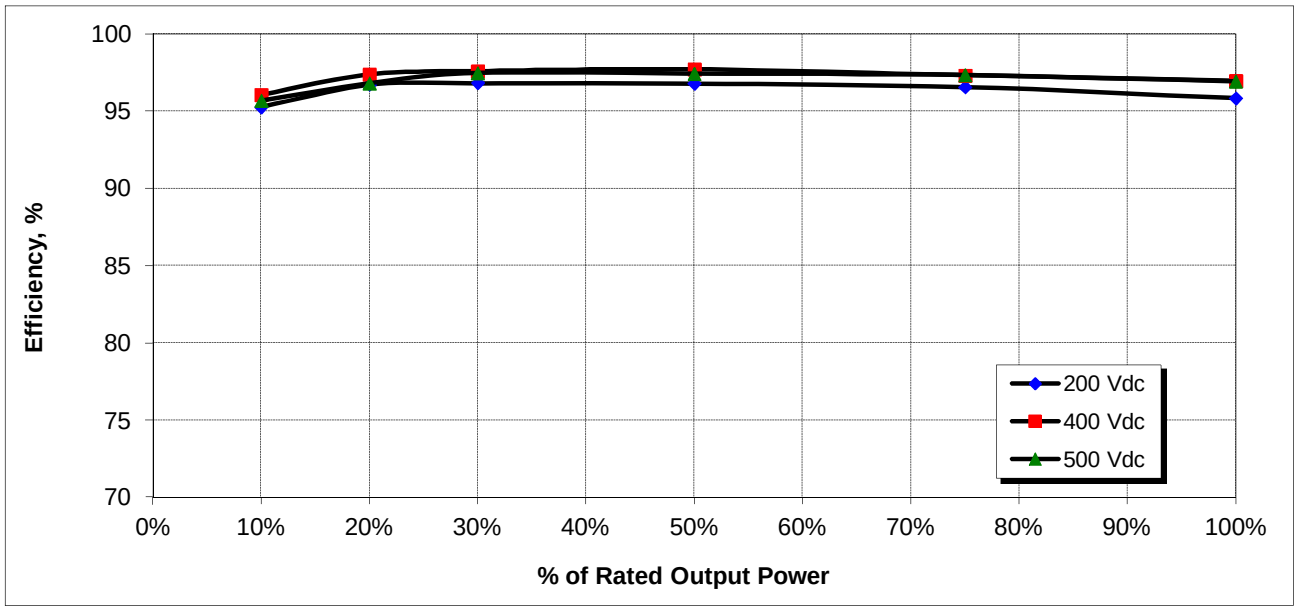
Model #: SolarRiver6000TL -US-240V

Rated Maximum Continuous Output Power @25°C: 6.000 kW Night Tare Loss: 0.68 W
Rated Maximum Continuous Output Power @40°C: 6.000 kW Night Tare Loss: 0.68 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	95.3	96.7	96.8	96.8	96.6	95.8	96.564
Vnom	400	96.1	97.4	97.6	97.7	97.3	96.9	97.355
Vmax	500	95.7	96.8	97.5	97.4	97.3	96.9	97.250

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	623.4	204.1	95.19	623.2	204.2	95.22	623.8	204.2	95.25	623.6	204.3	95.26	623.5	204.2	95.27
20%	Vmin	1210.7	203.8	96.63	1211.3	203.8	96.67	1211.6	203.9	96.70	1212.1	203.8	96.73	1212.3	203.9	96.76
30%	Vmin	1901.8	203.3	96.80	1901.7	203.4	96.79	1901.6	203.4	96.80	1901.8	203.5	96.81	1902.5	203.4	96.83
50%	Vmin	2844.8	202.4	96.76	2844.8	202.9	96.77	2843.4	202.4	96.77	2844.7	202.8	96.78	2846.3	202.9	96.81
75%	Vmin	4238.5	202.8	96.55	4236.8	202.5	96.49	4237.6	202.6	96.52	4240.0	203.2	96.58	4239.9	202.6	96.59
100%	Vmin	5742.1	201.6	95.80	5742.7	201.7	95.82	5743.1	201.9	95.83	5740.0	201.9	95.79	5742.1	201.6	95.83
10%	Vnom	619.2	403.9	95.95	619.7	404.2	95.99	619.8	404.0	96.03	618.9	403.9	96.01	619.6	404.1	96.08
20%	Vnom	1203.9	403.9	97.33	1203.5	404.1	97.35	1203.9	404.2	97.39	1204.3	404.0	97.37	1204.7	404.1	97.41
30%	Vnom	1916.7	403.0	97.51	1917.2	403.1	97.52	1917.8	403.0	97.56	1917.5	402.9	97.57	1918.5	403.0	97.60
50%	Vnom	2894.0	403.1	97.70	2894.3	403.1	97.72	2894.7	402.7	97.73	2894.2	402.8	97.70	2894.6	402.9	97.69
75%	Vnom	4258.9	403.4	97.41	4258.8	402.9	97.38	4256.8	403.2	97.34	4254.9	403.2	97.31	4253.8	403.0	97.27
100%	Vnom	5738.9	401.5	96.93	5740.1	401.0	96.95	5739.8	401.4	96.94	5740.1	401.6	96.96	5741.9	400.8	96.96
10%	Vmax	633.9	498.7	95.74	632.6	498.7	95.67	632.2	498.7	95.54	632.4	498.7	95.54	633.8	498.6	95.78
20%	Vmax	1229.4	499.2	96.80	1228.0	499.3	96.75	1228.4	499.4	96.82	1228.7	499.6	96.77	1227.5	499.5	96.78
30%	Vmax	1914.5	498.6	97.44	1916.1	498.5	97.48	1915.2	498.7	97.48	1914.6	498.8	97.47	1915.6	498.6	97.48
50%	Vmax	2704.6	497.9	97.51	2703.4	497.7	97.48	2705.2	497.6	97.49	2702.8	497.7	97.43	2705.1	498.0	97.38
75%	Vmax	4267.5	495.7	97.33	4267.2	495.6	97.33	4268.4	495.9	97.33	4268.2	495.6	97.35	4269.1	495.6	97.34
100%	Vmax	5736.0	494.0	96.80	5742.4	494.1	96.91	5744.1	494.0	96.93	5747.1	494.0	96.94	5746.7	494.3	96.95

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	624.5	204.1	95.29	623.3	204.3	95.28									
20%	Vmin	1212.8	204.0	96.78	1212.5	203.9	96.78									
30%	Vmin	1902.7	203.4	96.86	1903.4	203.4	96.89									
50%	Vmin	2845.7	202.2	96.80	2847.0	202.8	96.83									
75%	Vmin	4241.9	203.0	96.61	4241.1	202.8	96.62									
100%	Vmin	5744.2	201.6	95.86	5747.3	201.5	95.91									
10%	Vnom	620.7	404.1	96.12	621.2	404.0	96.18									
20%	Vnom	1205.1	403.8	97.41	1203.9	404.0	97.31									
30%	Vnom	1919.3	403.0	97.62	1918.7	403.1	97.61									
50%	Vnom	2893.4	402.9	97.65	2891.8	403.0	97.64									
75%	Vnom	4251.4	403.1	97.24	4251.3	402.7	97.21									
100%	Vnom	5739.8	401.5	96.95	5738.4	401.8	96.94									
10%	Vmax	633.9	498.6	95.77	633.1	498.6	95.71									
20%	Vmax	1228.3	499.3	96.83	1229.3	499.3	96.84									
30%	Vmax	1915.4	498.5	97.47	1915.9	498.5	97.47									
50%	Vmax	2715.2	497.9	97.34	2715.3	497.6	97.34									
75%	Vmax	4266.9	495.8	97.31	4264.4	496.1	97.28									
100%	Vmax	5746.9	493.9	96.95	5747.3	494.2	96.93									