Manufacturer: Samil Power Co., Ltd

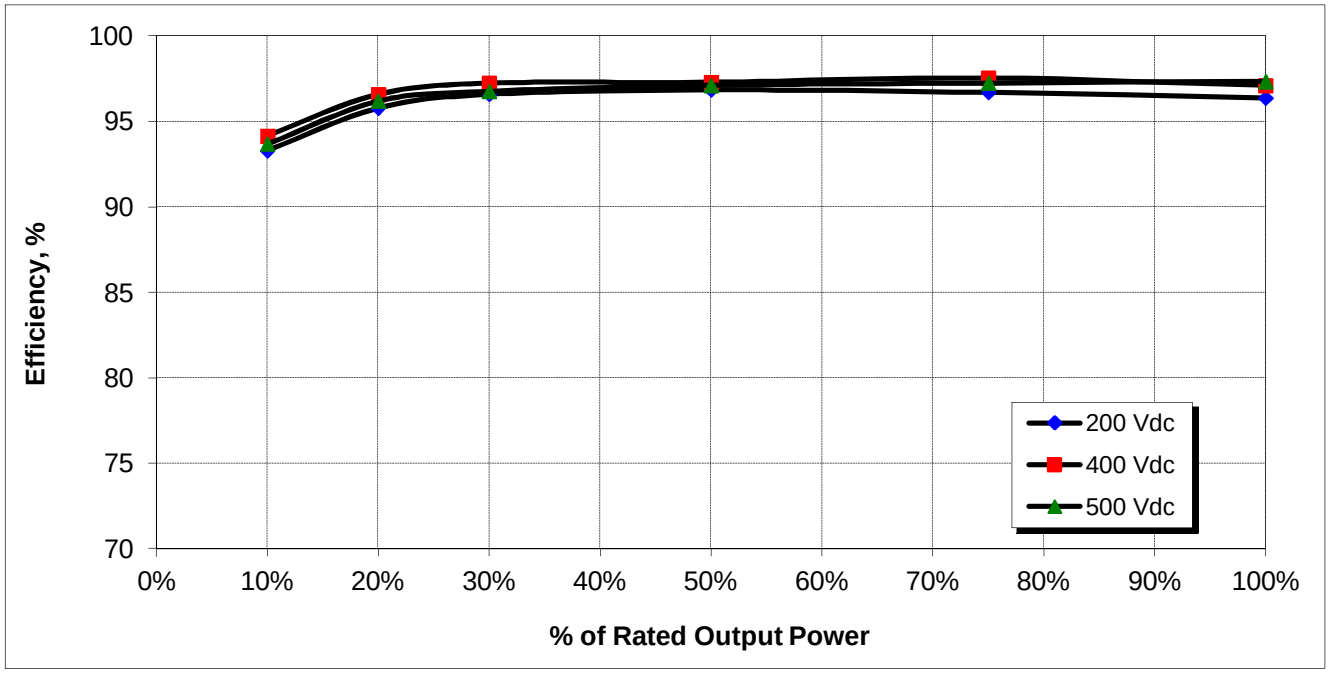
Model #: SolarRiver3000TL–US-240V

Rated Maximum Continuous Output Power @25°C: 3.000 kW Night Tare Loss: 0.67 W
Rated Maximum Continuous Output Power @40°C: 3.000 kW Night Tare Loss: 0.67 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	93.3	95.8	96.6	96.8	96.7	96.4	96.508
Vnom	400	94.2	96.6	97.2	97.3	97.5	97.1	97.242
Vmax	500	93.7	96.2	96.8	97.1	97.2	97.3	96.966

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	317.9	203.9	93.42	317.73	204.077	93.37	317.47	203.893	93.32	317.38	204.023	93.28	316.88	204.090	93.22
20%	Vmin	644.0	204.4	95.86	643.94	204.427	95.83	643.49	204.433	95.80	643.61	204.433	95.77	643.23	204.443	95.74
30%	Vmin	993.3	203.9	96.67	993.15	203.900	96.65	993.10	203.883	96.62	992.62	203.890	96.58	992.11	203.893	96.55
50%	Vmin	1380.2	204.2	96.81	1380.36	204.258	96.80	1381.00	204.174	96.84	1381.13	203.992	96.82	1381.74	203.996	96.87
75%	Vmin	2186.9	203.4	96.62	2187.26	203.367	96.65	2188.50	203.271	96.68	2188.73	203.399	96.70	2189.20	203.547	96.71
100%	Vmin	2830.7	202.6	96.41	2831.92	203.138	96.42	2829.99	203.261	96.40	2830.99	203.267	96.38	2829.97	203.043	96.35
10%	Vnom	320.9	402.3	93.86	322.04	404.060	94.06	322.86	402.517	94.37	321.64	401.683	94.16	321.98	403.843	94.06
20%	Vnom	653.2	407.1	96.58	653.49	407.300	96.55	654.32	406.907	96.59	653.93	407.253	96.58	654.77	407.040	96.58
30%	Vnom	1002.6	406.4	97.16	1001.63	406.617	97.18	1003.65	406.977	97.24	1003.72	406.580	97.29	1003.12	406.610	97.28
50%	Vnom	1374.9	405.7	97.46	1374.48	405.818	97.44	1371.97	405.866	97.24	1371.28	405.885	97.22	1371.18	405.832	97.23
75%	Vnom	2219.5	403.7	97.53	2218.86	403.990	97.55	2218.45	403.977	97.54	2219.13	403.988	97.56	2218.55	403.748	97.54
100%	Vnom	2871.3	403.0	97.13	2870.92	402.795	97.11	2870.11	402.816	97.08	2869.93	403.032	97.08	2869.67	403.681	97.08
10%	Vmax	330.6	499.1	93.63	330.07	499.117	93.60	329.47	499.383	93.61	329.94	499.327	93.65	330.10	499.023	93.70
20%	Vmax	650.5	499.2	96.07	651.28	499.363	96.15	650.72	499.203	96.13	651.94	499.140	96.25	651.63	498.930	96.19
30%	Vmax	991.0	499.1	96.81	990.64	499.210	96.78	991.02	498.713	96.77	990.48	499.243	96.75	991.56	498.893	96.75
50%	Vmax	1403.0	498.2	97.06	1391.71	498.738	97.08	1393.23	498.209	97.06	1393.41	498.094	97.09	1392.87	498.697	97.14
75%	Vmax	2253.2	496.7	97.26	2212.13	497.058	97.20	2212.20	496.960	97.22	2212.28	496.368	97.19	2213.64	496.947	97.26
100%	Vmax	2875.9	496.1	97.25	2875.95	496.741	97.28	2876.97	496.185	97.33	2878.30	496.137	97.35	2878.94	496.351	97.38

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	317.1	204.0	93.19	316.97667	204.057	93.17									
20%	Vmin	642.8	204.4	95.71	643.21667	204.437	95.69									
30%	Vmin	991.7	203.9	96.51	991.34	203.890	96.47									
50%	Vmin	1381.2	204.0	96.86	1381.46	203.922	96.86									
75%	Vmin	2189.0	203.5	96.73	2189.0433	203.408	96.73									
100%	Vmin	2828.6	203.0	96.32	2827.53	203.139	96.28									
10%	Vnom	322.8	404.4	94.26	322.70667	403.700	94.33									
20%	Vnom	654.1	407.2	96.57	654.48667	407.237	96.60									
30%	Vnom	1002.6	407.0	97.23	1001.55	407.267	97.26									
50%	Vnom	1371.2	405.7	97.21	1371.5867	405.998	97.25									
75%	Vnom	2217.5	403.8	97.49	2218.1933	404.011	97.52									
100%	Vnom	2870.1	402.9	97.09	2870.73	403.002	97.11									
10%	Vmax	330.4	499.3	93.78	330.58667	499.610	93.83									
20%	Vmax	651.4	499.2	96.25	651.81667	499.200	96.29									
30%	Vmax	990.9	499.2	96.75	991.03333	498.913	96.67									
50%	Vmax	1393.0	498.6	97.16	1393.8	498.396	97.17									
75%	Vmax	2214.0	497.0	97.27	2214.0433	497.197	97.29									
100%	Vmax	2878.8	496.2	97.38	2880.2733	496.244	97.40									