Manufacturer: Samil Power Co., Ltd

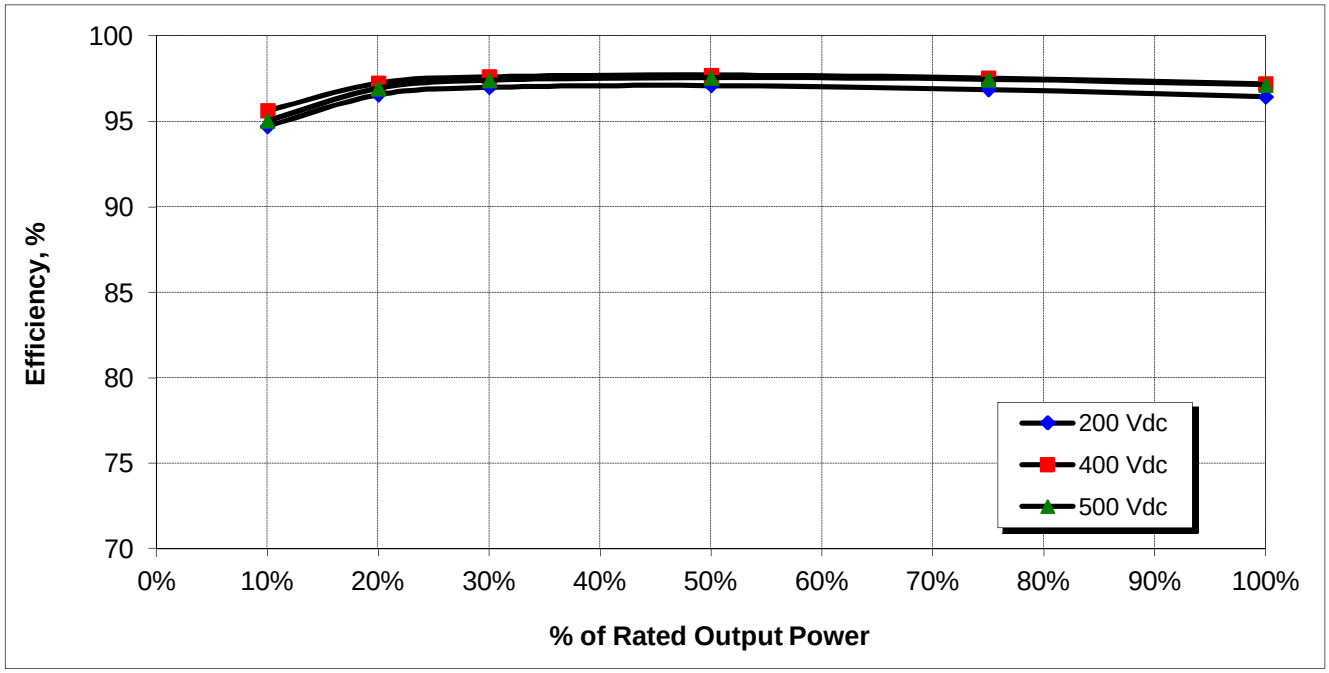
Model #: SolarRiver5000TL-US-240V

Rated Maximum Continuous Output Power @25°C: 5.000 kW Night Tare Loss: 0.24 W
Rated Maximum Continuous Output Power @40°C: 5.000 kW Night Tare Loss: 0.24 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	94.7	96.6	97.0	97.1	96.9	96.4	96.809
Vnom	400	95.6	97.2	97.6	97.7	97.5	97.2	97.475
Vmax	500	95.0	96.9	97.4	97.5	97.4	97.1	97.321

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	491.7	204.1	94.73	491.8	204.1	94.72	492.0	204.2	94.73	492.2	204.2	94.72	492.2	204.2	94.71
20%	Vmin	1093.7	204.1	96.55	1093.2	204.3	96.55	1093.3	204.2	96.56	1093.4	204.3	96.56	1093.5	204.3	96.56
30%	Vmin	1623.6	203.7	96.99	1623.6	203.8	96.99	1623.6	203.8	96.99	1623.5	203.7	97.00	1623.5	203.6	96.99
50%	Vmin	2252.4	203.6	97.10	2252.8	203.7	97.10	2252.6	203.6	97.10	2252.6	203.6	97.10	2252.6	203.6	97.10
75%	Vmin	3509.8	202.5	96.87	3509.7	202.5	96.87	3509.4	202.6	96.87	3509.0	202.6	96.87	3509.3	202.6	96.87
100%	Vmin	4785.9	204.8	96.44	4785.9	204.8	96.44	4786.0	204.8	96.44	4785.8	204.8	96.44	4785.8	204.8	96.44
10%	Vnom	500.6	398.8	95.62	500.6	398.6	95.61	500.7	398.9	95.61	500.6	398.9	95.61	500.4	399.1	95.62
20%	Vnom	1077.7	398.8	97.23	1077.6	398.9	97.22	1077.8	398.8	97.22	1078.4	398.7	97.24	1078.5	398.8	97.25
30%	Vnom	1612.8	398.0	97.59	1613.2	398.0	97.60	1613.1	398.0	97.62	1612.9	398.0	97.62	1612.8	398.0	97.61
50%	Vnom	2259.2	402.1	97.69	2259.6	402.1	97.71	2259.8	402.0	97.72	2259.9	402.0	97.72	2259.7	402.0	97.71
75%	Vnom	3528.2	400.3	97.52	3528.2	400.3	97.52	3528.4	400.3	97.53	3528.8	400.4	97.53	3528.7	400.3	97.54
100%	Vnom	4761.9	398.6	97.22	4761.7	398.5	97.22	4761.4	398.4	97.21	4761.1	398.5	97.21	4761.1	398.7	97.21
10%	Vmax	493.8	499.7	95.21	493.0	499.2	95.01	493.0	499.1	94.96	493.4	499.0	94.96	493.5	499.0	94.99
20%	Vmax	1048.5	497.3	96.79	1060.5	499.0	97.01	1059.3	498.9	96.94	1059.2	498.9	96.93	1059.1	498.9	96.93
30%	Vmax	1605.2	498.4	97.50	1602.9	498.4	97.41	1601.6	498.4	97.36	1601.7	498.4	97.35	1601.9	498.4	97.36
50%	Vmax	2264.0	497.5	97.55	2263.6	497.5	97.55	2263.9	497.5	97.54	2263.7	497.5	97.53	2263.9	497.5	97.53
75%	Vmax	3526.0	496.1	97.45	3525.5	496.1	97.46	3525.9	496.1	97.46	3526.3	496.2	97.45	3525.6	496.2	97.44
100%	Vmax	4997.1	494.5	97.12	4997.5	494.5	97.12	4997.0	494.4	97.13	4996.5	494.4	97.13	4996.6	494.5	97.13

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	492.4	204.2	94.73	492.2	204.2	94.72									
20%	Vmin	1093.4	204.3	96.57	1093.3	204.3	96.56									
30%	Vmin	1623.2	203.6	96.99	1623.2	203.6	96.99									
50%	Vmin	2252.8	203.6	97.10	2252.9	203.6	97.11									
75%	Vmin	3509.3	202.6	96.87	3510.0	202.5	96.87									
100%	Vmin	4786.6	204.6	96.43	4786.1	204.7	96.43									
10%	Vnom	500.8	398.9	95.64	501.0	398.9	95.67									
20%	Vnom	1078.1	398.8	97.25	1078.1	398.8	97.25									
30%	Vnom	1612.8	398.0	97.60	1613.0	397.9	97.59									
50%	Vnom	2259.5	402.0	97.70	2259.2	402.0	97.69									
75%	Vnom	3528.6	400.2	97.54	3525.0	400.1	97.60									
100%	Vnom	4761.0	398.6	97.20	4761.2	398.6	97.21									
10%	Vmax	493.3	499.0	95.01	493.1	499.0	95.02									
20%	Vmax	1058.5	498.9	96.93	1058.9	499.0	96.93									
30%	Vmax	1601.6	498.4	97.37	1601.6	498.4	97.39									
50%	Vmax	2264.4	497.5	97.53	2264.4	497.5	97.54									
75%	Vmax	3525.4	496.2	97.44	3525.8	496.1	97.45									
100%	Vmax	4996.1	494.4	97.12	4996.3	494.5	97.12									