Manufacturer: SMA America

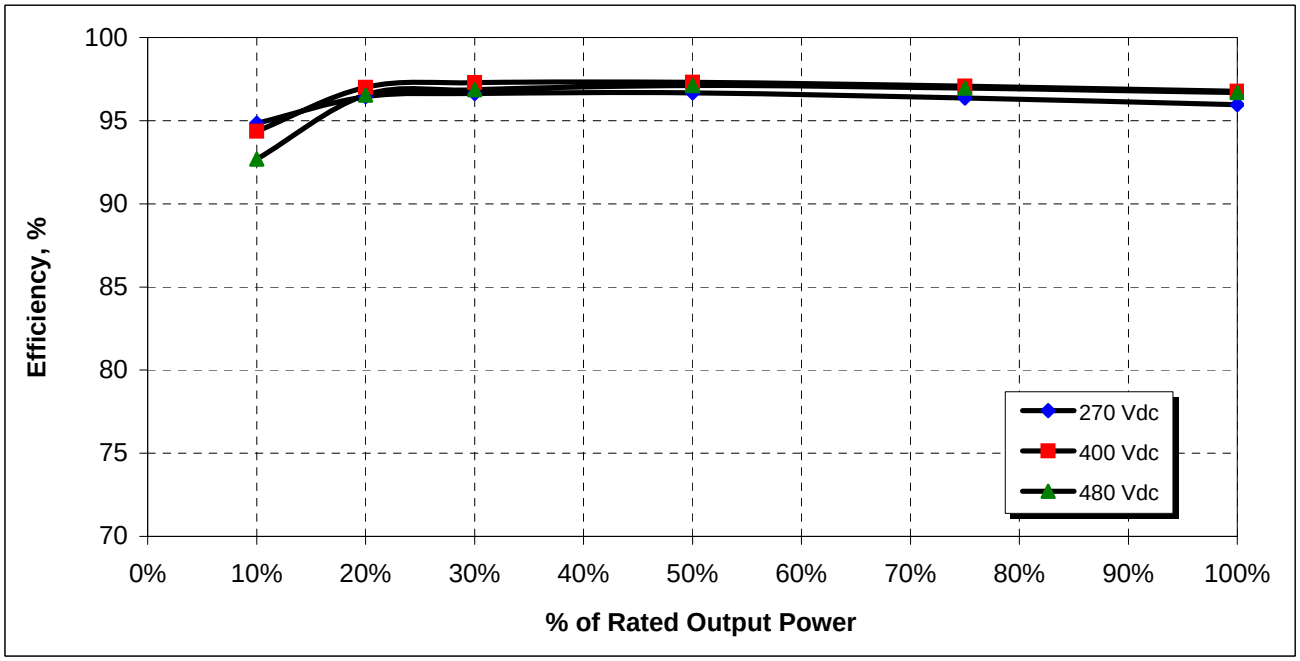
Model #: SB7700TL-US-22 (240V)

Rated Maximum Continuous Output Power: 7.700 kW Night Tare Loss: 0.46 W

Vmin: 270 Vdc Vnom: 400 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.77	1.54	2.31	3.85	5.78	7.70	Wtd
Vmin	270	94.84	96.43	96.64	96.66	96.36	95.95	96.38
Vnom	400	94.36	97.00	97.28	97.31	97.08	96.76	97.02
Vmax	480	92.68	96.54	96.87	97.11	96.96	96.69	96.78

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	746.50	279.66	95.15	743.90	276.95	95.05	743.90	283.53	95.09	741.00	279.02	94.47	739.30	283.94	94.44
20%	Vmin	1652.70	283.36	96.42	1658.40	281.88	96.45	1658.00	281.86	96.43	1657.60	281.45	96.44	1650.90	283.86	96.42
30%	Vmin	2291.50	283.91	96.65	2300.80	278.49	96.64	2302.90	280.97	96.64	2305.10	280.46	96.65	2304.20	280.64	96.63
50%	Vmin	3564.90	281.19	96.67	3496.80	280.19	96.67	3495.80	282.91	96.66	3501.40	276.64	96.66	3574.20	277.33	96.66
75%	Vmin	5441.00	276.58	96.36	5513.00	276.96	96.35	5500.00	280.19	96.37	5506.00	278.67	96.35	5442.00	276.78	96.36
100%	Vmin	7423.00	277.09	95.94	7411.00	279.57	95.95	7409.00	279.89	95.97	7420.00	277.98	95.96	7426.00	276.49	95.93
10%	Vnom	742.90	405.69	94.35	743.10	401.52	94.44	742.60	405.71	94.32	742.20	404.54	94.29	742.10	400.33	94.38
20%	Vnom	1665.10	397.98	97.04	1639.50	413.74	97.01	1637.40	407.69	97.05	1640.10	414.56	97.00	1662.90	401.58	96.88
30%	Vnom	2506.50	406.91	97.28	2505.40	401.15	97.31	2501.50	410.36	97.27	2506.60	404.73	97.28	2464.50	412.20	97.26
50%	Vnom	3887.90	410.97	97.35	3882.60	410.20	97.26	3888.00	408.97	97.33	3795.70	412.98	97.33	3796.70	410.21	97.26
75%	Vnom	5500.00	405.50	97.12	5498.00	408.98	97.11	5486.00	411.28	96.95	5497.00	407.03	97.11	5495.00	410.95	97.11
100%	Vnom	7349.00	410.70	96.76	7347.00	406.79	96.77	7342.00	412.95	96.76	7347.00	407.46	96.76	7348.00	409.61	96.76
10%	Vmax	698.50	461.77	92.58	701.30	469.36	92.72	698.00	465.63	92.40	703.40	469.27	92.83	701.50	457.60	92.89
20%	Vmax	1653.50	469.73	96.62	1653.70	470.45	96.58	1647.20	481.55	96.50	1614.70	479.59	96.49	1617.90	482.31	96.50
30%	Vmax	2314.70	471.13	96.89	2314.60	474.58	96.88	2317.20	472.45	96.91	2312.80	476.26	96.90	2312.90	473.54	96.77
50%	Vmax	3804.80	477.73	97.13	3804.00	474.91	97.14	3804.40	478.40	97.14	3728.70	473.89	97.14	3721.40	477.37	97.02
75%	Vmax	5553.00	471.17	96.98	5557.00	478.15	96.98	5557.00	473.06	96.97	5551.00	482.30	96.98	5553.00	474.78	96.90
100%	Vmax	7414.00	476.55	96.68	7357.00	479.96	96.67	7361.00	477.01	96.69	7362.00	475.58	96.71	7362.00	475.15	96.70

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															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
30%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															
50%	Vmax															
75%	Vmax															
100%	Vmax															