Manufacturer: SUNGROW POWER SUPPLY CO. LTD

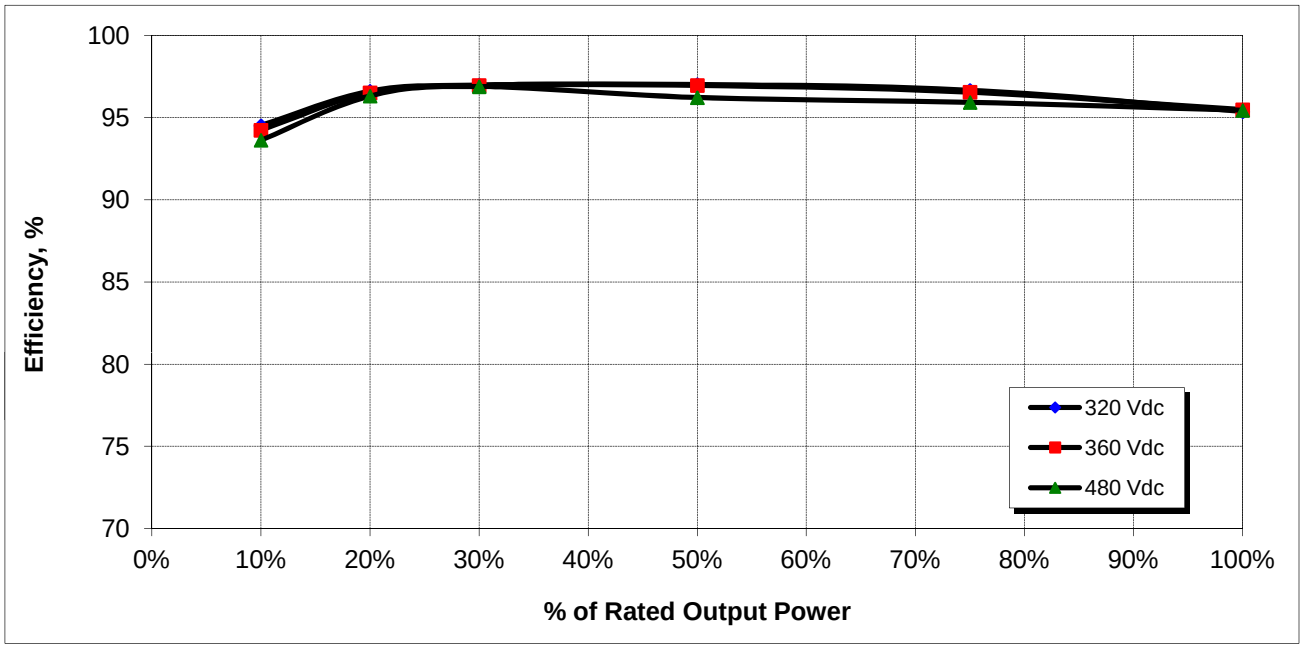
Model #: SG500LV

Rated Maximum Continuous Output Power: 500.00 kW Night Tare Loss: 90 W

Vmin: 320 Vdc Vnom: 360 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	320	94.5	96.6	97.0	97.0	96.7	95.4	96.6
Vnom	360	94.2	96.5	97.0	97.0	96.5	95.5	96.5
Vmax	480	93.6	96.3	96.9	96.2	95.9	95.4	96.0

CEC Efficiency of Inverter and MV TP1 Transformer = 96.5%



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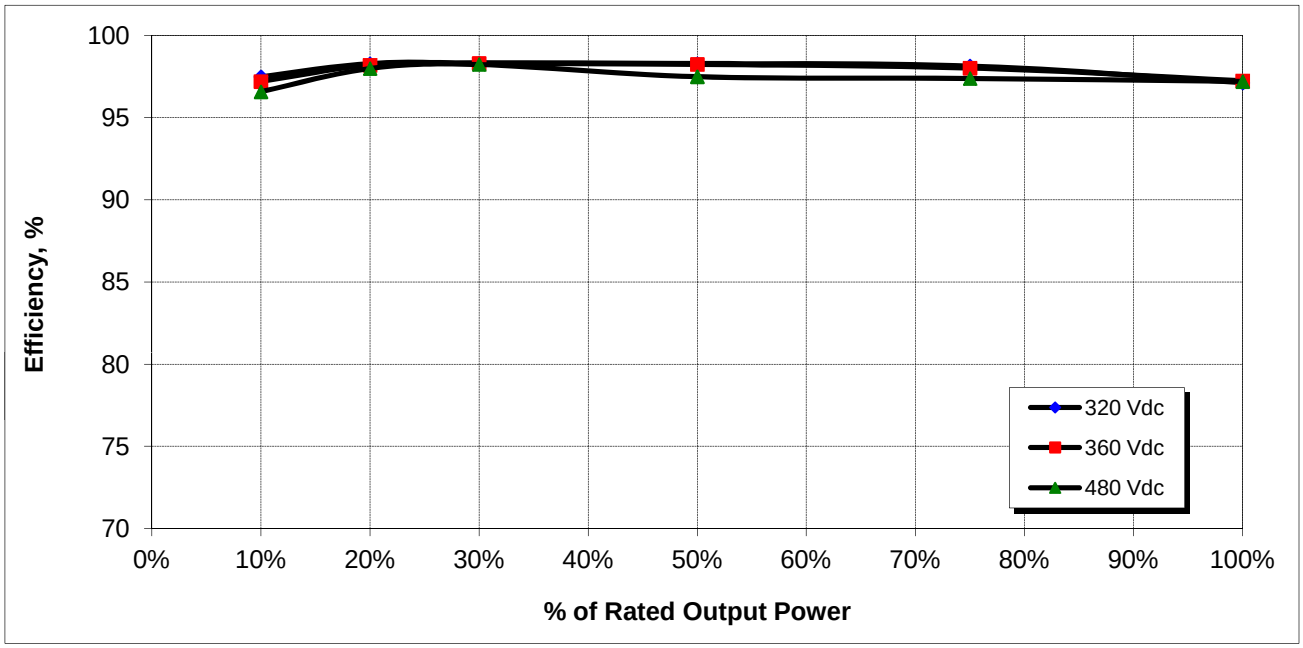
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	320	97.5	98.3	98.3	98.3	98.1	97.1	98.1
Vnom	360	97.2	98.2	98.3	98.2	98.0	97.2	98.0
Vmax	480	96.6	98.0	98.2	97.5	97.4	97.2	97.5

Inverter Efficiency only = 98.0%



500kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	320	96.95	98.29	98.63	98.70	98.50	98.19	98.47
Vnom	360	96.95	98.29	98.63	98.70	98.50	98.19	98.47
Vmax	480	96.95	98.29	98.63	98.70	98.50	98.19	98.47

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)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	48149.13	321.74	97.46	48172.87	321.72	97.48	48152.53	321.72	97.47	48178.90	321.71	97.49	48145.53	321.74	97.47
20%	Vmin	96570.33	321.23	98.28	96534.00	321.40	98.28	96542.50	321.35	98.28	96519.30	321.33	98.28	96531.33	321.42	98.28
30%	Vmin	147051.00	321.14	98.32	147082.33	321.33	98.33	147076.33	321.56	98.33	147064.33	321.32	98.32	147069.33	321.60	98.32
50%	Vmin	244629.33	322.05	98.33	244618.67	321.04	98.32	244649.00	321.28	98.32	244579.00	321.14	98.31	244618.67	321.25	98.31
75%	Vmin	373693.67	321.27	98.06	373736.33	321.64	98.06	373706.33	321.16	98.07	373740.67	321.52	98.07	373729.33	321.33	98.07
100%	Vmin	500659.33	320.78	97.12	500592.00	321.04	97.12	500638.33	320.93	97.12	500619.33	321.16	97.12	500542.00	321.12	97.12
10%	Vnom	49435.07	362.09	97.20	49437.57	362.07	97.20	49433.93	362.09	97.20	49438.07	362.06	97.20	49431.27	362.05	97.19
20%	Vnom	104610.67	363.58	98.18	104609.33	363.57	98.18	104608.67	363.56	98.28	104610.67	363.54	98.17	104611.33	363.55	98.17
30%	Vnom	149400.67	363.70	98.31	149389.33	363.71	98.30	149398.00	363.69	98.30	149389.33	363.69	98.30	149387.67	363.69	98.29
50%	Vnom	250765.33	362.70	98.24	250760.67	362.69	98.24	250759.00	362.72	98.23	250742.67	362.69	98.23	250759.67	362.66	98.23
75%	Vnom	376127.00	362.23	98.01	376110.67	362.23	98.01	376108.67	362.25	98.02	376111.00	362.25	98.02	376088.00	362.27	98.02
100%	Vnom	506320.00	364.16	97.24	506325.33	364.16	97.24	506307.33	364.16	97.24	506302.33	364.18	97.24	506313.00	364.18	97.24
10%	Vmax	48631.20	477.33	96.57	48631.20	477.20	96.59	48631.20	477.30	96.55	48631.20	477.33	96.57	48631.20	477.30	96.56
20%	Vmax	98875.90	477.83	97.99	98890.20	477.82	97.99	98872.97	477.83	97.99	98884.27	477.85	97.99	98877.13	477.83	97.98
30%	Vmax	149519.67	479.03	98.24	149530.33	479.00	98.24	149516.67	479.00	98.24	149523.33	478.99	98.23	149524.00	478.99	98.23
50%	Vmax	249943.33	479.09	97.47	249960.00	479.10	97.48	249958.67	479.08	97.48	249965.67	479.10	97.49	249958.33	479.12	97.49
75%	Vmax	375414.00	479.03	97.37	375437.00	479.03	97.38	375414.33	479.02	97.38	375409.67	479.02	97.38	375405.67	479.04	97.38
100%	Vmax	505569.67	477.63	97.20	505559.33	477.63	97.20	505570.00	477.62	97.20	505572.00	477.62	97.20	505578.33	477.64	97.20

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	48131.53	321.50	97.50	48130.30	321.51	97.50									
20%	Vmin	96526.90	321.28	98.28	96503.63	321.57	98.28									
30%	Vmin	147081.33	321.49	98.32	147079.67	321.64	98.32									
50%	Vmin	244595.67	321.09	98.31	244058.00	321.33	98.08									
75%	Vmin	373788.67	321.48	98.07	375558.00	321.56	98.54									
100%	Vmin	500596.00	321.19	97.12	500584.00	320.97	97.12									
10%	Vnom	49430.13	362.06	97.20	49435.10	362.03	97.20									
20%	Vnom	104612.33	363.52	98.17	104610.00	363.52	98.17									
30%	Vnom	149392.67	363.68	98.29	149388.33	363.67	98.29									
50%	Vnom	250729.00	362.67	98.23	250719.33	362.68	98.23									
75%	Vnom	376108.00	362.27	98.02	376096.00	362.28	98.02									
100%	Vnom	506306.33	364.18	97.24	506311.67	364.15	97.24									
10%	Vmax	48631.20	477.30	96.57	48631.20	477.28	96.58									
20%	Vmax	98880.97	477.85	97.98	98880.97	477.85	97.98									
30%	Vmax	149520.00	478.98	98.22	149517.67	478.99	98.22									
50%	Vmax	249952.67	479.12	97.49	249951.67	479.09	97.49									
75%	Vmax	375396.33	479.04	97.38	375407.67	479.05	97.38									
100%	Vmax	505580.33	477.63	97.20	505569.33	477.64	97.20									