Manufacturer: Sungrow Power Supply CO., LTD.

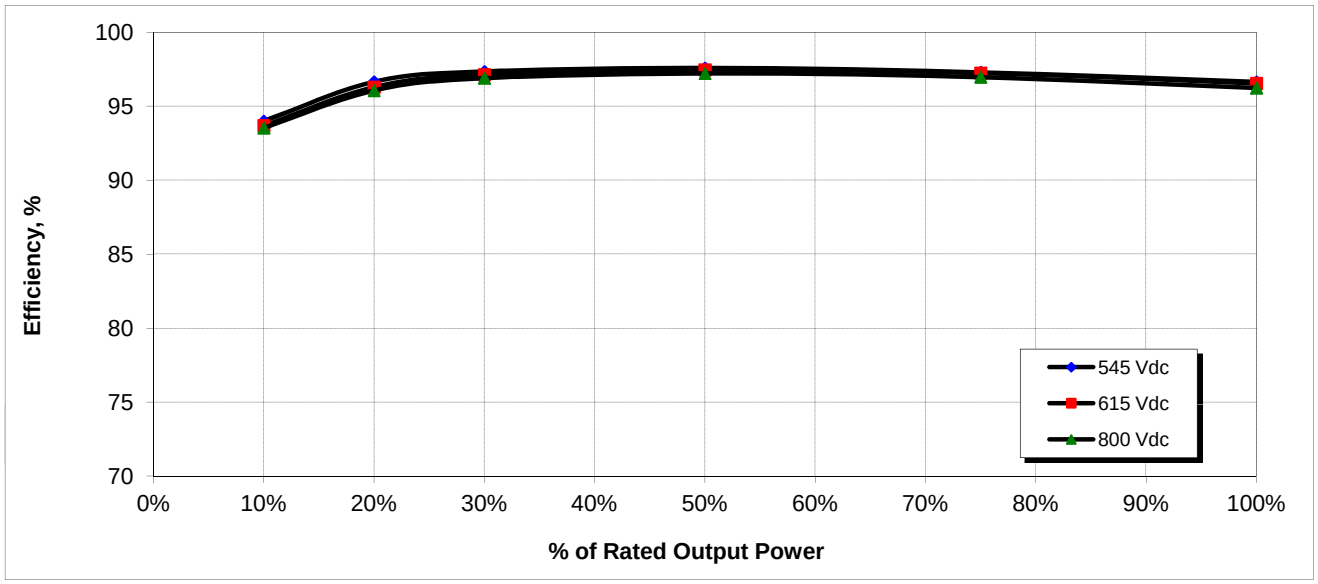
Model #: SG800MX

Rated Maximum Continuous Output Power: 800.00 kW Night Tare Loss: 97 W

Vmin: 545 Vdc Vnom: 615 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		80.00	160.00	240.00	400.00	600.00	800.00	Wtd
Vmin	545	94.00	96.66	97.35	97.59	97.31	96.65	97.18
Vnom	615	93.69	96.29	97.14	97.47	97.24	96.54	97.05
Vmax	800	93.54	96.07	96.90	97.22	96.97	96.23	96.80

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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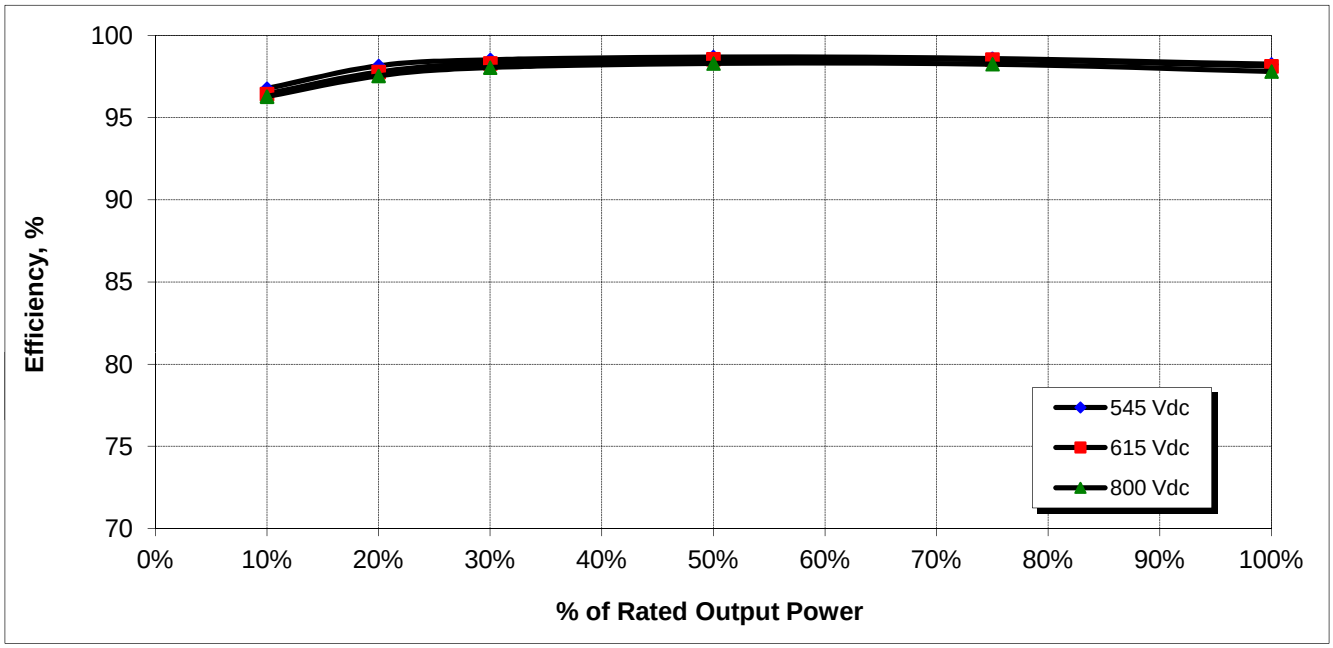
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		80.00	160.00	240.00	400.00	600.00	800.00	Wtd
Vmin	545	96.76	98.14	98.51	98.68	98.59	98.24	98.49
Vnom	615	96.44	97.77	98.29	98.55	98.53	98.12	98.36
Vmax	800	96.28	97.54	98.05	98.30	98.25	97.80	98.10

Inverter Efficiency only = 98.5%



800kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		80.00	160.00	240.00	400.00	600.00	800.00	Wtd
Vmin	545	97.15	98.49	98.83	98.90	98.70	98.39	98.70
Vnom	615	97.15	98.49	98.83	98.90	98.70	98.39	98.70
Vmax	800	97.15	98.49	98.83	98.90	98.70	98.39	98.70

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	78415.40	549.45	96.74	78553.63	549.42	96.76	78632.50	549.51	96.76	78615.17	549.53	96.75	78728.53	549.52	96.78
20%	Vmin	161615.00	549.58	98.15	161519.67	549.58	98.15	161380.33	549.62	98.14	161481.67	549.61	98.14	161258.00	549.62	98.13
30%	Vmin	239795.67	549.52	98.51	239650.67	549.51	98.50	239652.00	549.49	98.50	239801.33	549.55	98.51	239690.33	549.54	98.51
50%	Vmin	401563.67	549.53	98.68	401689.67	549.52	98.68	401552.67	549.56	98.68	401564.67	549.56	98.68	401667.33	549.54	98.68
75%	Vmin	604951.67	549.54	98.59	604790.67	549.55	98.59	604763.33	549.56	98.59	604576.00	549.52	98.59	604805.67	549.58	98.59
100%	Vmin	808535.67	549.71	98.24	808893.33	549.75	98.23	808937.33	549.74	98.23	808769.00	549.70	98.24	808920.67	549.71	98.24
10%	Vnom	75860.80	620.40	96.43	75985.70	620.46	96.44	75889.67	620.44	96.43	75923.50	620.52	96.43	75817.37	620.42	96.43
20%	Vnom	159248.33	621.34	97.76	159389.33	621.37	97.77	159178.67	621.36	97.76	159322.67	621.33	97.77	159538.00	621.43	97.77
30%	Vnom	239973.33	621.37	98.29	240257.00	621.41	98.30	240099.33	621.43	98.29	240352.33	621.44	98.30	240142.00	621.50	98.29
50%	Vnom	400534.67	621.32	98.55	400877.00	621.32	98.55	400824.00	621.32	98.55	400546.33	621.33	98.55	400699.33	621.29	98.56
75%	Vnom	600941.33	621.27	98.53	601026.67	621.35	98.53	600947.00	621.29	98.53	600988.33	621.34	98.53	600953.00	621.37	98.52
100%	Vnom	803036.33	621.39	98.12	803211.67	621.36	98.12	803443.00	621.38	98.12	803375.67	621.34	98.13	803327.00	621.34	98.12
10%	Vmax	75250.00	795.28	96.32	75106.03	795.29	96.30	74876.03	795.20	96.27	74966.77	795.22	96.27	74927.00	795.22	96.24
20%	Vmax	161959.00	795.17	97.56	161804.67	795.20	97.54	161934.33	795.14	97.55	161902.67	795.18	97.55	161753.67	795.17	97.54
30%	Vmax	241611.33	794.89	98.05	241510.33	794.91	98.04	241599.00	794.88	98.05	241694.67	794.90	98.05	241459.67	794.92	98.04
50%	Vmax	401545.67	795.07	98.30	401182.33	795.06	98.30	401301.67	795.05	98.30	401510.00	795.13	98.30	401313.67	795.07	98.30
75%	Vmax	601496.33	795.20	98.25	601318.00	795.20	98.25	601222.00	795.14	98.25	601439.00	795.15	98.25	601492.33	795.13	98.25
100%	Vmax	803674.00	795.72	97.80	803724.00	795.75	97.81	802976.33	795.60	97.80	803465.33	795.67	97.80	803440.00	795.66	97.80

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	78551.53	549.50	96.76	78686.37	549.54	96.77									
20%	Vmin	161397.00	549.59	98.14	161362.33	549.61	98.14									
30%	Vmin	239818.00	549.53	98.51	239733.67	549.54	98.51									
50%	Vmin	401659.33	549.55	98.68	401715.00	549.58	98.68									
75%	Vmin	604750.00	549.57	98.59	604730.67	549.57	98.59									
100%	Vmin	808722.00	549.67	98.24	809056.67	549.76	98.23									
10%	Vnom	76007.17	620.43	96.46	75951.83	620.50	96.44									
20%	Vnom	159325.33	621.39	97.77	159456.67	621.41	97.77									
30%	Vnom	239993.00	621.48	98.28	240158.67	621.47	98.29									
50%	Vnom	400711.00	621.33	98.55	400869.33	621.30	98.55									
75%	Vnom	601097.00	621.36	98.53	600908.67	621.44	98.52									
100%	Vnom	803292.67	621.34	98.12	803392.67	621.32	98.13									
10%	Vmax	75074.27	795.24	96.29	74927.00	795.27	96.27									
20%	Vmax	161540.67	795.17	97.54	161540.67	795.15	97.52									
30%	Vmax	241817.00	794.95	98.06	241528.00	794.93	98.05									
50%	Vmax	401540.00	795.09	98.30	401277.00	795.06	98.30									
75%	Vmax	601507.00	795.09	98.25	601513.33	795.15	98.25									
100%	Vmax	803415.67	795.58	97.81	803589.67	795.65	97.80									