Manufacturer: SolarEdge Technologies

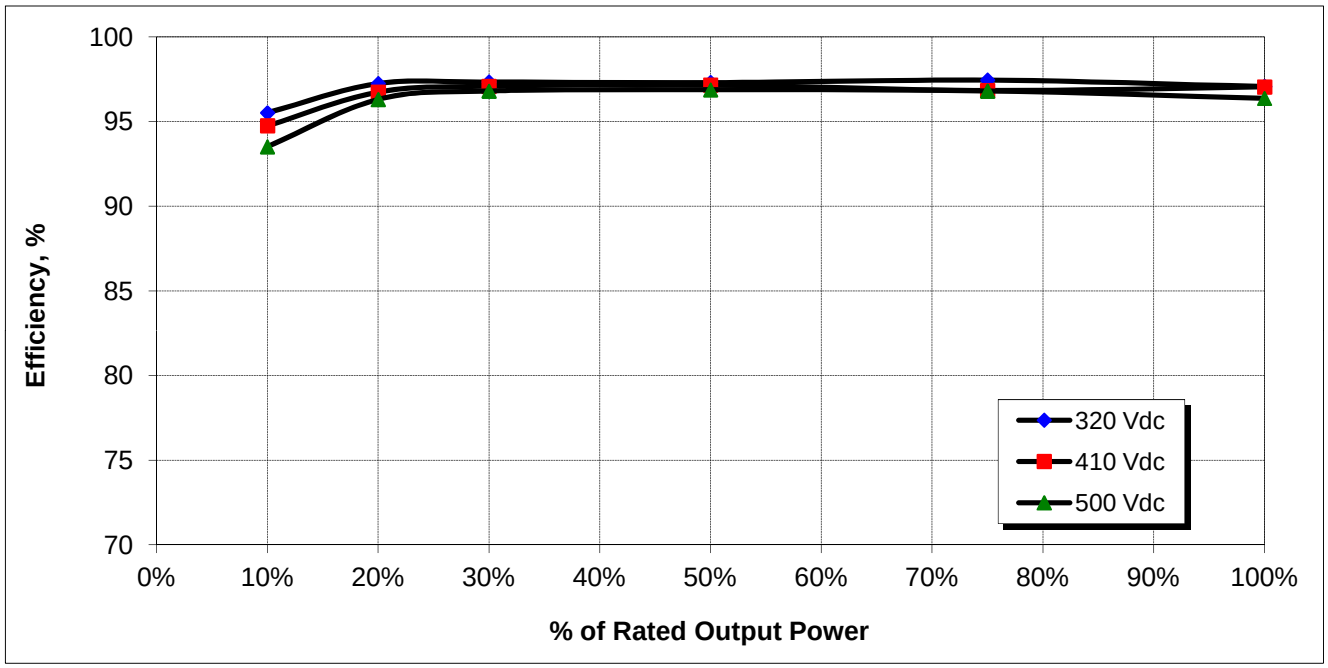
Model #: SE3800 (208V)

Rated Maximum Continuous Output Power: 3.99 kW Night Tare Loss: -5.10 W

Vmin: 320 Vdc Vnom: 410 Vdc Vmax: 500 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.40	0.80	1.20	2.00	2.99	3.99	Wtd
Vmin	320	95.5	97.2	97.3	97.3	97.4	97.1	97.3
Vnom	410	94.8	96.7	97.1	97.2	96.8	97.0	96.9
Vmax	500	93.5	96.3	96.8	96.9	96.8	96.4	96.6

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	0.3092	320.65	95.49005	0.309	320.63	95.55616	0.308	320.64	95.45648	0.308	320.66	95.58366	0.308	320.67	95.50294
20%	Vmin	0.7065	319.96	97.62387	0.704	320.06	97.16464	0.705	319.85	97.27206	0.704	319.79	97.15165	0.702	319.91	97.02136
30%	Vmin	1.1857	322.38	97.39711	1.19	322.4	97.47155	1.188	322.57	97.32597	1.191	322.29	97.27626	1.192	322.24	97.20129
50%	Vmin	1.8271	318.74	97.28741	1.827	318.85	97.2544	1.829	318.87	97.20076	1.832	318.76	97.39455	1.834	318.65	97.36331
75%	Vmin	3.0892	320.82	97.35524	3.087	320.93	97.40659	3.088	321.01	97.43974	3.089	320.88	97.50109	3.091	321.03	97.54495
100%	Vmin	3.7642	319.66	97.02235	3.764	319.53	97.0281	3.763	319.8	97.05195	3.765	319.64	97.09945	3.766	319.66	97.15544
10%	Vnom	0.3066	411.13	94.80624	0.306	411.23	94.69035	0.306	411.14	94.79955	0.306	411.17	94.68526	0.306	411.17	94.77814
20%	Vnom	0.6987	409.71	96.67742	0.7	409.61	96.81245	0.7	409.5	96.68973	0.7	409.67	96.66721	0.701	409.57	96.83069
30%	Vnom	1.1662	409.03	97.09371	1.167	408.96	97.13731	1.155	409.61	97.10799	1.15	409.92	96.97136	1.166	408.75	97.1154
50%	Vnom	1.8819	408.81	97.14955	1.882	408.78	97.16422	1.882	408.71	97.14541	1.882	409.1	97.18004	1.882	408.77	97.1526
75%	Vnom	3.0592	408.18	96.89629	3.06	408.15	96.86589	3.06	408.32	96.80908	3.059	408.28	96.77573	3.059	407.96	96.8175
100%	Vnom	3.7614	410.53	96.88503	3.761	410.6	96.96225	3.764	410.71	97.06294	3.767	410.78	97.14652	3.77	410.96	97.15425
10%	Vmax	0.3046	494.24	93.60461	0.305	494.21	93.72241	0.304	494.27	93.47729	0.303	494.21	93.2686	0.304	494.28	93.50101
20%	Vmax	0.6978	482.8	96.31161	0.698	483.87	96.34772	0.696	483.6	96.2868	0.696	483.82	96.26371	0.696	483.76	96.29026
30%	Vmax	1.1599	486.38	96.79071	1.155	492.71	96.77797	1.155	492.44	96.82006	1.154	493.15	96.78048	1.152	495.62	96.82418
50%	Vmax	1.8603	493.54	96.89469	1.862	493.86	96.88207	1.863	494.4	96.86086	1.862	494.19	96.87394	1.862	493.93	96.86609
75%	Vmax	3.0463	491.79	96.63938	3.045	491.73	96.72662	3.048	491.78	96.84637	3.051	492.09	96.92258	3.051	492.3	96.86906
100%	Vmax	3.687	489.9	96.47958	3.684	489.79	96.36065	3.68	489.7	96.28813	3.679	489.57	96.32084	3.678	489.68	96.40633

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															