Manufacturer: SolarEdge Technologies

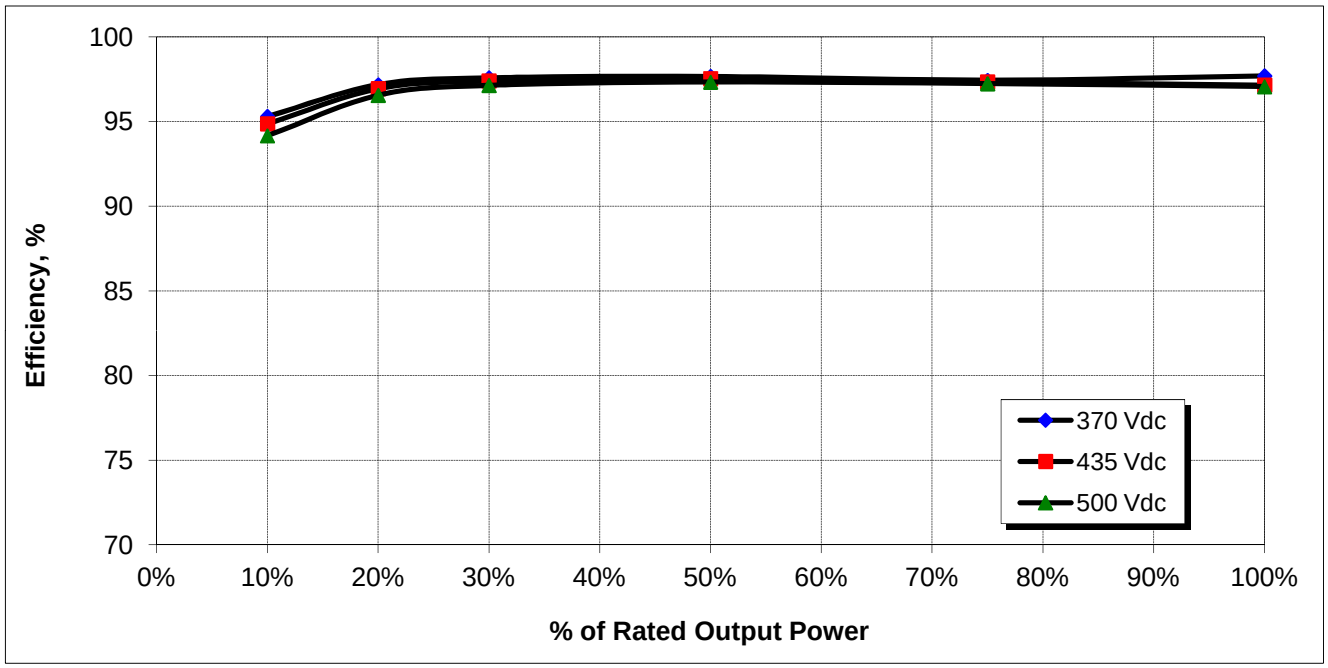
Model #: SE4000 (240V)

Rated Maximum Continuous Output Power: 3.974 kW Night Tare Loss: -5.92 W

Vmin: 370 Vdc Vnom: 435 Vdc Vmax: 500 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.40	0.79	1.19	1.99	2.98	3.97	Wtd
Vmin	370	95.3	97.2	97.6	97.7	97.4	97.7	97.4
Vnom	435	94.9	96.9	97.4	97.5	97.3	97.2	97.3
Vmax	500	94.2	96.5	97.1	97.3	97.2	97.1	97.1

CEC Efficiency = 97.5%



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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	0.3116	369.96	95.30304	0.311	369.64	95.28751	0.31	369.68	95.09752	0.311	369.95	95.42154	0.311	369.69	95.38841
20%	Vmin	0.7023	369.82	97.13232	0.703	369.83	97.19771	0.703	369.81	97.1515	0.703	369.82	97.20575	0.703	369.91	97.21669
30%	Vmin	1.1723	369.09	97.55882	1.173	369.09	97.58039	1.172	368.98	97.47315	1.173	369.08	97.57451	1.174	369.2	97.70845
50%	Vmin	1.8925	369.36	97.67119	1.894	369.3	97.65873	1.895	369.38	97.67133	1.896	369.34	97.65703	1.896	369.26	97.64266
75%	Vmin	2.9604	369.25	97.43806	2.959	369.02	97.44581	2.961	368.73	97.44683	2.96	368.77	97.40792	2.961	369.04	97.47318
100%	Vmin	3.8217	368.59	97.68909	3.825	368.43	97.72627	3.822	368.55	97.66313	3.824	368.57	97.69288	3.823	368.62	97.69187
10%	Vnom	0.3084	418.51	94.93284	0.307	417.36	94.83516	0.306	414.82	94.87192	0.308	418.75	94.83892	0.31	421.99	94.85718
20%	Vnom	0.7008	429.63	96.92047	0.701	429.61	96.90942	0.7	429.61	96.95266	0.701	429.46	97.02372	0.701	429.64	96.88457
30%	Vnom	1.1661	434.47	97.31813	1.167	434.46	97.49951	1.166	434.44	97.35694	1.166	434.47	97.36381	1.166	434.4	97.45683
50%	Vnom	1.8942	434.14	97.54236	1.895	433.87	97.59081	1.894	433.8	97.53145	1.894	433.92	97.52778	1.895	434.01	97.50941
75%	Vnom	2.967	433.66	97.33556	2.966	433.87	97.32405	2.967	433.94	97.35186	2.967	433.78	97.35255	2.965	433.82	97.33509
100%	Vnom	3.822	432.92	97.15001	3.821	432.88	97.15653	3.82	432.9	97.16023	3.821	433.01	97.18797	3.82	432.95	97.15201
10%	Vmax	0.3071	479.09	94.18951	0.307	479.01	94.15688	0.307	478.97	94.15212	0.306	479.1	94.1556	0.306	478.98	94.13965
20%	Vmax	0.6953	486.79	96.45637	0.7	487.04	96.65959	0.698	486.73	96.5476	0.698	486.86	96.52609	0.698	486.59	96.54245
30%	Vmax	1.1588	493.75	97.1149	1.157	496.65	97.13223	1.156	496.33	97.1422	1.155	496.69	97.14136	1.153	496.88	97.1264
50%	Vmax	1.8813	494.43	97.34672	1.88	494.07	97.32333	1.879	494.23	97.32303	1.879	494.28	97.31755	1.878	494.11	97.32547
75%	Vmax	2.9238	491.51	97.25243	2.923	491.82	97.22648	2.921	491.88	97.2169	2.921	491.76	97.23044	2.921	492.17	97.25578
100%	Vmax	3.7777	491.8	97.07337	3.776	491.81	97.04645	3.776	492	97.06374	3.776	492.07	97.0511	3.781	491.93	97.03671

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															