Manufacturer: SolarEdge Technologies Ltd

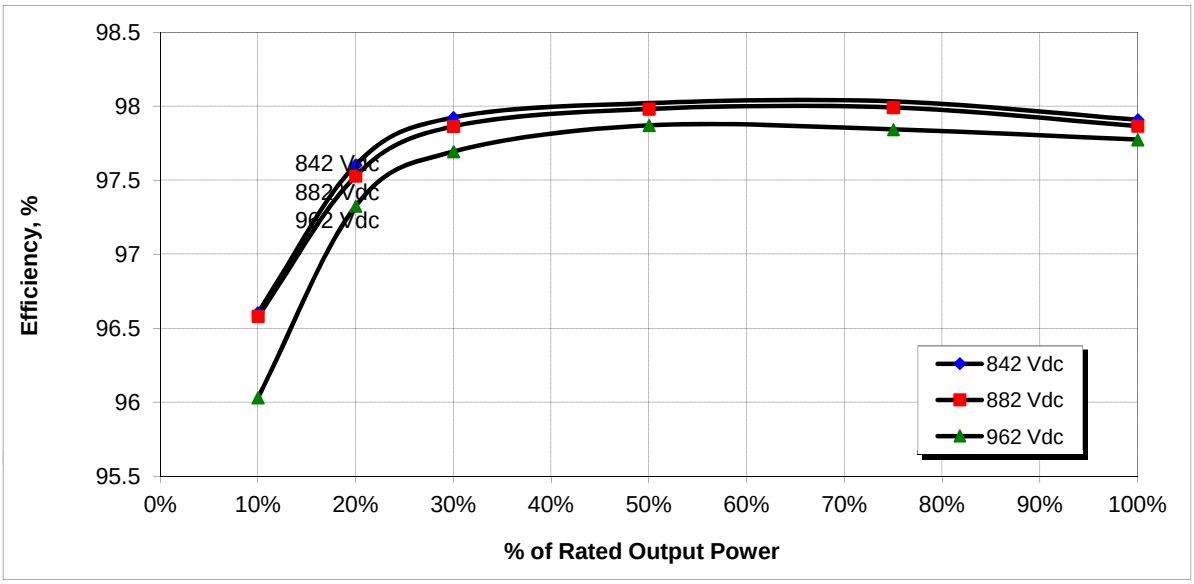
Model #: SE20k

Rated Maximum Continuous Output Power: 20.05 kW Night Tare Loss: 3.48 W

Vmin: 842 Vdc Vnom: 882 Vdc Vmax: 962 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		2.01	4.01	6.02	10.03	15.04	20.05	Wtd
Vmin	842	96.6	97.6	97.9	98.0	98.0	97.9	97.9
Vnom	882	96.6	97.5	97.9	98.0	98.0	97.9	97.9
Vmax	962	96.0	97.3	97.7	97.9	97.8	97.8	97.7

CEC Efficiency = 98.0%



All Efficiency data is within 3 standard deviations from the average? Pass

All output power levels are within tolerances during Efficiency Test? Pass

Equipment Used:

Asset #	Description	Mfg	Model	Serial	Cal Date	Cal Due
None	Power Analyzer	Zimmer	LMG500	8551202	13-May-13	13-May-14
None	Data Logger	Keithley	2701	1199086	16-May-13	16-May-14

Test Engineer: Scott Keefe DATE: 31-May-13

Reviwe Engineer: Steven Pasternack DATE: 31-May-13

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	1.944	845.33	96.602	1.944	845.35	96.603	1.945	845.42	96.607	1.944	845.25	96.604	1.945	845.35	96.605
20%	Vmin	4.0145	845.38	97.603	4.016	845.34	97.601	4.015	845.41	97.601	4.014	845.34	97.594	4.016	845.38	97.616
30%	Vmin	6.0887	846	97.921	6.09	845.99	97.919	6.091	846.03	97.925	6.089	845.44	97.929	6.088	845.38	97.926
50%	Vmin	10.111	846.04	98.019	10.11	846.02	98.022	10.11	845.99	98.018	10.11	845.99	98.021	10.11	845.97	98.026
75%	Vmin	15.088	845.43	98.031	15.09	845.4	98.032	15.09	845.44	98.033	15.09	845.48	98.035	15.09	845.99	98.032
100%	Vmin	20.112	845.5	97.909	20.11	845.46	97.909	20.11	845.47	97.906	20.11	845.51	97.909	20.11	845.47	97.910
10%	Vnom	1.9466	885.22	96.579	1.946	885.23	96.581	1.945	885.23	96.582	1.947	885.3	96.581	1.945	885.26	96.577
20%	Vnom	4.013	885.3	97.531	4.012	885.4	97.526	4.011	885.43	97.526	4.013	885.97	97.529	4.013	886.01	97.531
30%	Vnom	6.0862	885.48	97.870	6.086	885.49	97.862	6.085	885.46	97.863	6.086	885.48	97.866	6.087	885.51	97.857
50%	Vnom	10.108	886.01	97.978	10.11	886.1	97.981	10.11	886.05	97.984	10.11	886.05	97.985	10.11	886.03	97.979
75%	Vnom	15.089	886.12	97.990	15.09	886.14	97.991	15.09	886.12	97.993	15.09	886.09	97.989	15.09	886.14	97.992
100%	Vnom	20.114	886.27	97.867	20.12	886.25	97.864	20.11	886.23	97.866	20.12	885.52	97.868	20.12	885.6	97.865
10%	Vmax	1.9373	965.36	96.026	1.937	965.31	96.031	1.937	965.35	96.020	1.937	965.33	96.029	1.936	965.3	96.042
20%	Vmax	4.007	965.51	97.328	4.007	965.46	97.324	4.007	965.5	97.328	4.006	965.48	97.318	4.006	965.52	97.325
30%	Vmax	6.0757	965.51	97.686	6.077	965.54	97.693	6.079	965.46	97.695	6.075	966.16	97.689	6.076	966.06	97.701
50%	Vmax	10.103	966.23	97.869	10.1	966.17	97.865	10.1	966.24	97.869	10.1	966.13	97.872	10.1	966.2	97.875
75%	Vmax	15.073	966.21	97.845	15.07	966.22	97.840	15.07	966.19	97.840	15.07	966.25	97.844	15.08	966.19	97.845
100%	Vmax	20.106	965.51	97.776	20.11	965.49	97.776	20.11	965.52	97.776	20.11	965.51	97.771	20.11	965.55	97.771

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															