Manufacturer: INGETEAM ENERGY SA

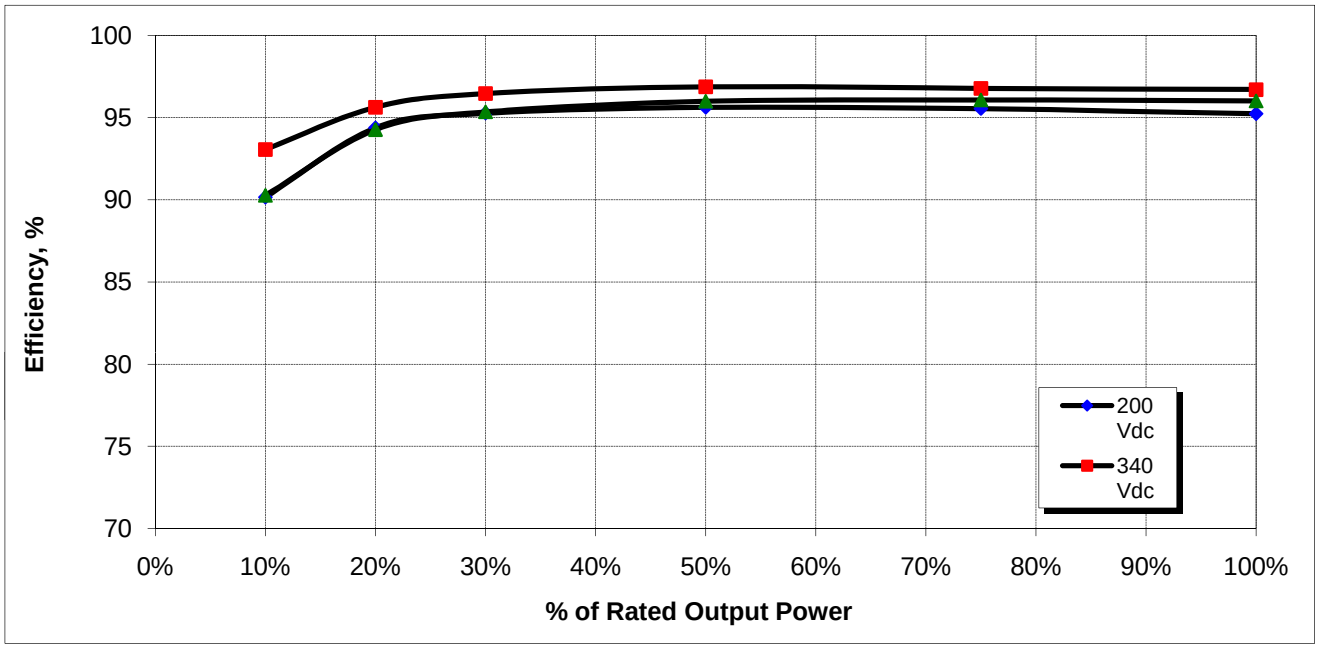
Model #: Ingecon Sun 5TL U (240V)

Rated Maximum Continuous Output Power: 5.00 kW Night Tare Loss: 0.50 W

Vmin: 200 Vdc Vnom: 340 Vdc Vmax: 450 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.50	1.00	1.50	2.50	3.75	5.00	Wtd
Vmin	200	90.2	94.4	95.3	95.6	95.5	95.2	95.2
Vnom	340	93.1	95.6	96.4	96.9	96.8	96.7	96.5
Vmax	450	90.3	94.3	95.3	96.0	96.1	96.0	95.6

CEC Efficiency = 96.0%



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)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	0.4811	201.66	90.440	0.485	201.55	90.370	0.482	201.83	90.235	0.493	201.93	90.091	0.482	202.36	89.901
20%	Vmin	1.0508	201.42	94.440	1.051	201.38	94.446	1.053	201.24	94.463	1.048	201.19	94.440	1.05	201.1	94.311
30%	Vmin	1.6046	199.43	95.264	1.611	199.25	95.245	1.607	199.36	95.324	1.61	199.44	95.286	1.604	199.69	95.388
50%	Vmin	2.4794	199.44	95.587	2.478	199.43	95.558	2.478	199.42	95.573	2.479	199.83	95.681	2.477	199.69	95.694
75%	Vmin	3.5619	200.73	95.530	3.561	200.97	95.566	3.561	200.48	95.559	3.559	200.04	95.579	3.559	199.68	95.603
100%	Vmin	4.7851	200.38	95.266	4.78	200.45	95.265	4.782	200.12	95.229	4.783	199.96	95.233	4.787	199.61	95.203
10%	Vnom	0.4857	340.41	93.197	0.486	340.3	93.257	0.487	340.37	93.201	0.488	340.32	93.245	0.486	340.17	93.275
20%	Vnom	1.051	340.67	95.925	1.051	340.58	95.910	1.052	341.01	93.245	1.053	341.95	95.865	1.051	341.84	95.869
30%	Vnom	1.6023	341.92	96.432	1.603	341.97	96.460	1.602	342.15	96.440	1.603	342.05	96.471	1.601	341.77	96.419
50%	Vnom	2.6913	339.55	96.846	2.691	339.49	96.846	2.693	339.24	96.864	2.695	338.91	96.873	2.695	339.17	96.875
75%	Vnom	3.5586	340.35	96.811	3.558	342.07	96.763	3.556	342.52	96.759	3.553	342.41	96.756	3.552	342.31	96.749
100%	Vnom	4.7873	337.29	96.711	4.786	336.99	96.705	4.783	336.72	96.712	4.791	337.12	96.713	4.791	337.31	96.708
10%	Vmax	0.4857	449.34	89.832	0.486	449.96	90.426	0.489	449.62	90.244	0.486	449.88	90.328	0.487	449.47	90.295
20%	Vmax	1.0814	450.72	94.272	1.085	451.2	94.252	1.081	451.4	94.335	1.084	451.58	94.213	1.084	451.64	94.276
30%	Vmax	1.6055	446.43	95.321	1.605	446.71	95.378	1.602	446.04	95.340	1.605	-95.354	95.354	1.602	446.3	95.351
50%	Vmax	2.7187	449.05	95.988	2.718	449.05	96.007	2.719	447.75	96.018	2.719	448.3	95.992	2.715	448.77	95.996
75%	Vmax	3.5587	449.04	96.085	3.553	449.91	96.087	3.556	449.76	96.055	3.553	449.64	96.064	3.556	450.42	96.059
100%	Vmax	4.7909	449.91	96.019	4.785	447.43	96.026	4.789	447.25	96.013	4.787	447.64	96.018	4.791	447.56	95.992

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	0.4877	202.22	89.850	0.479	202.5	90.252	0.484	202.14	89.815	0.485	202.19	90.481	0.483	202.31	90.109
20%	Vmin	1.0513	201.02	94.299	1.054	200.06	94.282	1.052	199.92	94.278	1.054	200.05	94.383	1.051	200.05	94.451
30%	Vmin	1.6055	199.44	95.280	1.606	199.21	95.220	1.609	199.89	95.162	1.607	200.41	95.180	1.608	200.43	95.306
50%	Vmin	2.4772	199.61	95.681	2.475	199.87	95.618	2.476	200.17	95.629	2.475	200.05	95.624	2.48	199.93	95.587
75%	Vmin	3.5604	199.48	95.574	3.556	199.1	95.553	3.559	198.82	95.512	3.56	198.52	95.500	3.559	197.85	95.491
100%	Vmin	4.7897	199.63	95.209	4.783	199.72	95.229	4.781	199.76	95.261	4.785	199.69	95.234	4.777	199.64	95.209
10%	Vnom	0.4816	344.11	92.992	0.483	345.53	92.939	0.479	346.09	92.789	0.481	345.83	92.794	0.483	345.69	92.894
20%	Vnom	1.0517	341.83	95.877	1.053	341.92	95.879	1.053	341.84	95.870	1.053	341.91	95.888	1.052	341.72	95.880
30%	Vnom	1.6052	341.74	96.455	1.605	341.86	96.441	1.604	341.59	96.476	1.604	341.36	96.472	1.604	342.06	96.432
50%	Vnom	2.6942	338.59	96.873	2.694	338.43	96.871	2.696	339.35	96.850	2.695	339.04	96.881	2.693	339.44	96.867
75%	Vnom	3.5512	342.36	96.757	3.558	341.96	96.771	3.553	342.4	96.762	3.555	342.06	96.766	3.554	341.97	96.766
100%	Vnom	4.7887	337.47	96.698	4.791	337.59	96.704	4.793	337.79	96.700	4.789	337.92	96.682	4.783	337.78	96.672
10%	Vmax	0.4883	449.48	90.399	0.487	449.57	90.239	0.489	449.1	90.386	0.484	448.92	90.241	0.487	448.75	90.384
20%	Vmax	1.0826	451.63	94.252	1.083	451.24	94.302	1.083	450.5	94.223	1.084	450.03	94.308	1.081	451.17	94.255
30%	Vmax	1.6074	445.89	95.342	1.604	446.26	95.324	1.606	446.08	95.385	1.604	446.41	95.329	1.606	445.75	95.299
50%	Vmax	2.7228	448.5	95.977	2.72	448.49	96.006	2.72	448.39	95.994	2.718	447.85	95.949	2.721	448.16	95.986
75%	Vmax	3.5563	449.65	96.073	3.555	449.74	96.046	3.553	448.63	96.092	3.556	448.7	96.054	3.554	448.38	96.090
100%	Vmax	4.7851	447.4	96.009	4.789	447.94	96.000	4.786	447.65	96.027	4.789	447.71	95.997	4.787	447.62	96.012