Manufacturer: INGETEAM ENERGY SA

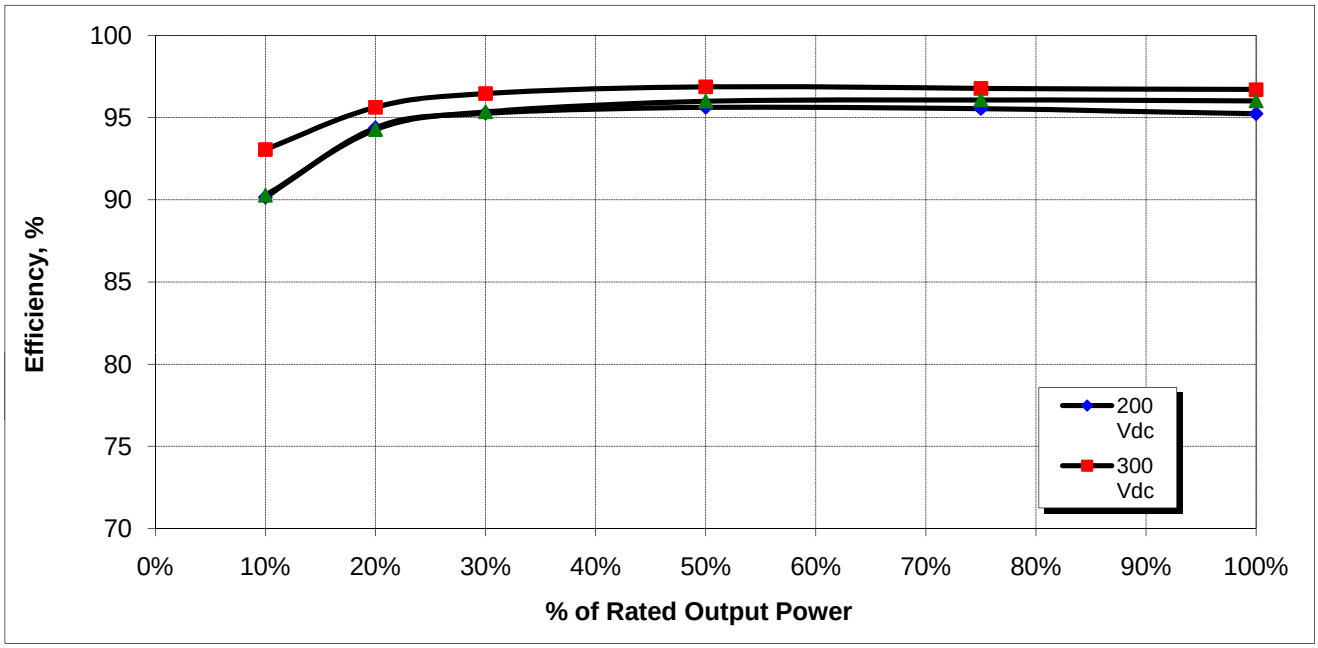
Model #: Ingecon Sun 5TL U (208V)

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

Vmin: 200 Vdc Vnom: 300 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	300	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%



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	0.4604	200.96	91.744	0.47	201.05	91.438	0.465	200.74	91.511	0.467	200.86	91.863	0.467	200.68	92.463
20%	Vmin	1.0423	200.53	94.845	1.039	200.66	94.678	1.042	200.48	94.663	1.041	200.53	94.656	1.043	200.43	94.697
30%	Vmin	1.5804	201.67	95.374	1.584	201.7	95.366	1.585	201.6	95.426	1.585	201.51	95.442	1.585	201.43	95.496
50%	Vmin	2.6438	201.33	95.611	2.643	201.74	95.607	2.643	201.78	95.613	2.643	201.83	95.594	2.643	201.69	95.582
75%	Vmin	3.5775	200.43	95.400	3.581	200.6	95.361	3.573	200.66	95.361	3.579	201.13	95.375	3.579	200.98	95.370
100%	Vmin	4.7808	201.25	95.225	4.778	201.18	95.208	4.779	201.95	95.218	4.783	201.94	95.215	4.784	201.71	95.212
10%	Vnom	0.4945	300	93.515	0.493	300.26	93.425	0.494	299.92	93.443	0.492	299.92	93.464	0.491	299.72	93.465
20%	Vnom	1.0678	299.87	95.760	1.071	299.77	95.792	1.066	299.63	93.464	1.07	299.75	95.800	1.068	299.68	95.770
30%	Vnom	1.5709	303	96.239	1.57	303.21	96.205	1.57	303.25	96.223	1.57	303.13	96.226	1.57	303.3	96.209
50%	Vnom	2.7039	297.98	96.470	2.704	297.73	96.487	2.704	297.9	96.476	2.702	298.05	96.467	2.702	298.13	96.462
75%	Vnom	3.5473	299.22	96.297	3.541	299.1	96.314	3.546	299.18	96.304	3.546	299.6	96.297	3.542	299.78	96.292
100%	Vnom	4.7783	297.35	96.117	4.779	297.3	96.113	4.781	297.52	96.105	4.78	298.13	96.084	4.784	298.1	96.090
10%	Vmax	0.4934	449.57	90.455	0.492	449.1	90.365	0.493	448.92	90.383	0.491	448.75	90.404	0.49	449.33	90.405
20%	Vmax	1.0667	449.17	93.506	1.07	450.91	93.538	1.065	450.72	93.485	1.069	451.2	93.546	1.067	451.4	93.516
30%	Vmax	1.5696	449.96	94.654	1.571	449.62	94.676	1.57	449.88	94.669	1.569	-94.635	94.635	1.569	449.48	94.653
50%	Vmax	2.704	449.07	95.187	2.703	448.66	95.197	2.703	448.9	95.220	2.703	448.4	95.204	2.703	448.57	95.221
75%	Vmax	3.5409	449.47	95.565	3.542	449.48	95.587	3.541	449.57	95.585	3.546	449.1	95.578	3.54	448.92	95.595
100%	Vmax	4.7782	449.48	95.618	4.782	450.87	95.615	4.783	451.27	95.612	4.777	451.27	95.608	4.778	451.43	95.604

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	0.4617	200.82	91.846	0.462	201.04	91.980	0.463	200.95	91.935	0.462	201	92.467	0.465	200.96	91.389
20%	Vmin	1.0433	200.36	94.762	1.04	200.53	94.784	1.043	200.41	94.830	1.041	200.51	94.853	1.042	200.53	94.866
30%	Vmin	1.5835	201.61	95.524	1.584	201.35	95.513	1.583	201.14	95.478	1.583	201.01	95.456	1.583	201.12	95.423
50%	Vmin	2.643	201.57	95.547	2.645	201.72	95.543	2.645	201.83	95.549	2.645	201.79	95.579	2.645	201.87	95.599
75%	Vmin	3.5773	201.3	95.401	3.577	201.37	95.405	3.579	201.25	95.409	3.579	201.18	95.386	3.576	201.95	95.406
100%	Vmin	4.7783	201.57	95.208	4.779	201.5	95.204	4.781	201.86	95.196	4.78	201.73	95.175	4.784	203.56	95.181
10%	Vnom	0.495	299.44	93.598	0.492	299.45	93.551	0.493	299.66	93.518	0.492	299.9	93.474	0.493	299.83	93.514
20%	Vnom	1.0678	299.9	95.762	1.07	299.87	95.772	1.07	299.62	95.793	1.071	299.6	95.798	1.068	299.94	95.766
30%	Vnom	1.5703	303.28	96.217	1.57	303.64	96.205	1.57	303.64	96.201	1.571	303.62	96.186	1.57	303.42	96.217
50%	Vnom	2.7044	298.3	96.471	2.701	298.5	96.454	2.705	298.72	96.447	2.707	297.84	96.479	2.706	298.19	96.461
75%	Vnom	3.5355	300.13	96.269	3.537	300.17	96.269	3.54	299.94	96.282	3.546	300.2	96.291	3.54	299.51	96.289
100%	Vnom	4.7837	298.18	96.085	4.775	297.61	96.087	4.78	296.91	96.112	4.779	297.25	96.102	4.779	297.19	96.095
10%	Vmax	0.4939	449.15	90.538	0.491	449.07	90.491	0.492	448.66	90.458	0.491	448.9	90.414	0.492	448.4	90.454
20%	Vmax	1.0667	451.58	93.508	1.069	451.64	93.518	1.068	451.63	93.539	1.07	451.24	93.544	1.067	450.5	93.512
30%	Vmax	1.569	449.57	94.656	1.569	449.1	94.639	1.569	448.92	94.647	1.569	448.75	94.635	1.569	449.33	94.631
50%	Vmax	2.7028	449.17	95.210	2.701	450.91	95.201	2.701	450.72	95.196	2.703	451.2	95.205	2.7	451.4	95.188
75%	Vmax	3.545	448.75	95.585	3.545	449.33	95.578	3.541	449.15	95.573	3.534	449.07	95.550	3.536	448.66	95.550
100%	Vmax	4.78	450.98	95.596	4.779	451.09	95.575	4.783	451.27	95.581	4.783	451.06	95.576	4.774	449.48	95.578