Manufacturer: INGETEAM ENERGY SA

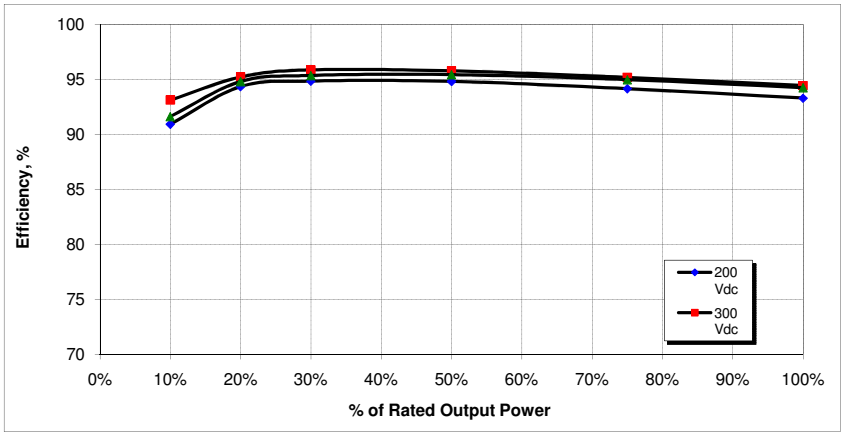
Model #: Ingecon Sun 5U (208V)

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	90.9	94.3	94.8	94.8	94.2	93.3	94.2
Vnom	300	93.1	95.2	95.9	95.8	95.2	94.4	95.3
Vmax	450	91.6	94.8	95.4	95.4	95.0	94.2	94.9

CEC Efficiency = 95%



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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	0.465	199.6	91.027	0.468	199.56	90.927	0.45	199.55	90.807	0.471	199.42	90.848	0.484	199.42	91.048
20%	Vmin	1.0823	199.83	94.282	1.077	200.25	94.342	1.067	200.39	94.364	1.064	200.39	94.410	1.064	200.42	94.432
30%	Vmin	1.5909	200.43	94.899	1.593	200.34	94.887	1.598	200.37	94.872	1.612	200.05	94.815	1.618	200.22	94.759
50%	Vmin	2.2923	201.68	94.762	2.282	201.62	94.849	2.271	201.72	94.862	2.271	201.66	94.884	2.272	201.67	94.844
75%	Vmin	3.5348	200.36	94.171	3.534	200.12	94.173	3.538	200.24	94.164	3.533	200.44	94.177	3.545	200.16	94.116
100%	Vmin	4.7785	200.5	93.195	4.78	200.28	93.307	4.778	200.18	93.323	4.776	200.23	93.304	4.773	200.37	93.309
10%	Vnom	0.4681	298.99	93.078	0.471	298.85	93.107	0.468	299.08	93.049	0.473	299.09	93.116	0.468	299.36	93.088
20%	Vnom	1.0302	300.24	95.448	1.028	300.33	95.423	1.03	300.61	93.116	1.029	300.66	95.460	1.03	300.49	95.432
30%	Vnom	1.5886	301.26	95.852	1.595	301.29	95.869	1.591	301.16	95.863	1.59	301.38	95.856	1.592	301.16	95.869
50%	Vnom	2.2942	300.01	95.764	2.292	300.26	95.758	2.29	300.17	95.746	2.295	300.3	95.775	2.293	300.32	95.764
75%	Vnom	3.5294	300.84	95.186	3.545	300.85	95.199	3.528	301	95.194	3.52	300.91	95.172	3.544	300.47	95.193
100%	Vnom	4.7745	300.81	94.431	4.781	300.99	94.440	4.771	301.09	94.428	4.78	300.91	94.452	4.772	301	94.431
10%	Vmax	0.4771	450.04	91.549	0.477	449.74	91.499	0.477	449.56	91.548	0.489	449.55	91.661	0.484	449.65	91.755
20%	Vmax	1.0612	449.7	94.819	1.066	449.32	94.820	1.063	449.05	94.834	1.065	449.18	94.797	1.062	449.11	94.837
30%	Vmax	1.5998	450.27	95.366	1.602	450.31	95.386	1.603	450.53	95.362	1.6	-95.334	95.334	1.602	450.71	95.350
50%	Vmax	2.291	449.18	95.399	2.293	448.6	95.443	2.292	448.18	95.445	2.295	448.67	95.434	2.294	448.73	95.425
75%	Vmax	3.5099	449.76	94.987	3.512	449.74	94.982	3.509	449.44	94.977	3.505	448.97	94.977	3.511	449.04	94.981
100%	Vmax	4.7799	449.74	94.259	4.777	448.67	94.254	4.776	448.88	94.251	4.778	448.83	94.250	4.778	449.04	94.245

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	0.4861	199.31	90.970	0.481	199.11	90.901	0.464	199.41	90.783	0.463	199.4	90.898	0.469	199.39	90.954
20%	Vmin	1.0632	200.39	94.349	1.066	200.27	94.387	1.077	200.09	94.316	1.083	200.18	94.248	1.077	200.08	94.297
30%	Vmin	1.6209	200.17	94.757	1.616	200.17	94.818	1.604	200.45	94.869	1.591	200.8	94.895	1.593	200.72	94.888
50%	Vmin	2.2674	201.62	94.864	2.286	201.58	94.800	2.296	201.34	94.766	2.296	201.38	94.761	2.285	201.53	94.806
75%	Vmin	3.5492	199.97	94.104	3.533	200.48	94.167	3.538	200.15	94.150	3.535	200.27	94.137	3.54	200.5	94.159
100%	Vmin	4.7766	200.3	93.293	4.779	200.18	93.303	4.776	200.28	93.298	4.773	200.47	93.319	4.781	200.52	93.285
10%	Vnom	0.4737	299.49	93.140	0.471	299.12	93.144	0.478	299	93.164	0.477	299	93.144	0.479	299.2	93.188
20%	Vnom	1.0246	300.66	95.446	1.025	300.48	95.465	1.024	300.01	95.493	1.026	299.93	95.429	1.022	299.92	95.420
30%	Vnom	1.594	301.14	95.853	1.593	301.15	95.857	1.59	300.73	95.859	1.593	301.03	95.851	1.591	301.21	95.850
50%	Vnom	2.2909	300.16	95.764	2.295	300.16	95.770	2.292	300.2	95.756	2.294	300.18	95.765	2.293	300.13	95.758
75%	Vnom	3.5311	300.46	95.179	3.54	300.56	95.186	3.527	300.39	95.171	3.544	300.53	95.196	3.526	300.89	95.167
100%	Vnom	4.77	300.97	94.430	4.776	301.08	94.443	4.772	301.11	94.436	4.78	300.93	94.443	4.778	300.78	94.442
10%	Vmax	0.4839	449.21	91.693	0.48	449.65	91.646	0.48	449.72	91.616	0.486	449.81	91.657	0.477	449.24	91.566
20%	Vmax	1.0632	448.97	94.788	1.062	449.26	94.783	1.059	449.31	94.774	1.053	449.64	94.804	1.057	449.58	94.784
30%	Vmax	1.6023	450.81	95.320	1.602	450.7	95.336	1.603	450.69	95.371	1.603	450.72	95.349	1.603	450.77	95.371
50%	Vmax	2.2946	449.01	95.436	2.296	449.07	95.423	2.295	449.16	95.435	2.294	449.27	95.403	2.294	449.78	95.418
75%	Vmax	3.5115	449.23	94.977	3.507	448.99	94.978	3.51	448.99	94.979	3.51	449.36	94.967	3.51	449.34	94.973
100%	Vmax	4.7798	448.8	94.242	4.781	449.29	94.250	4.778	449.16	94.242	4.78	448.73	94.243	4.772	448.72	94.233