Manufacturer: INGETEAM ENERGY SA

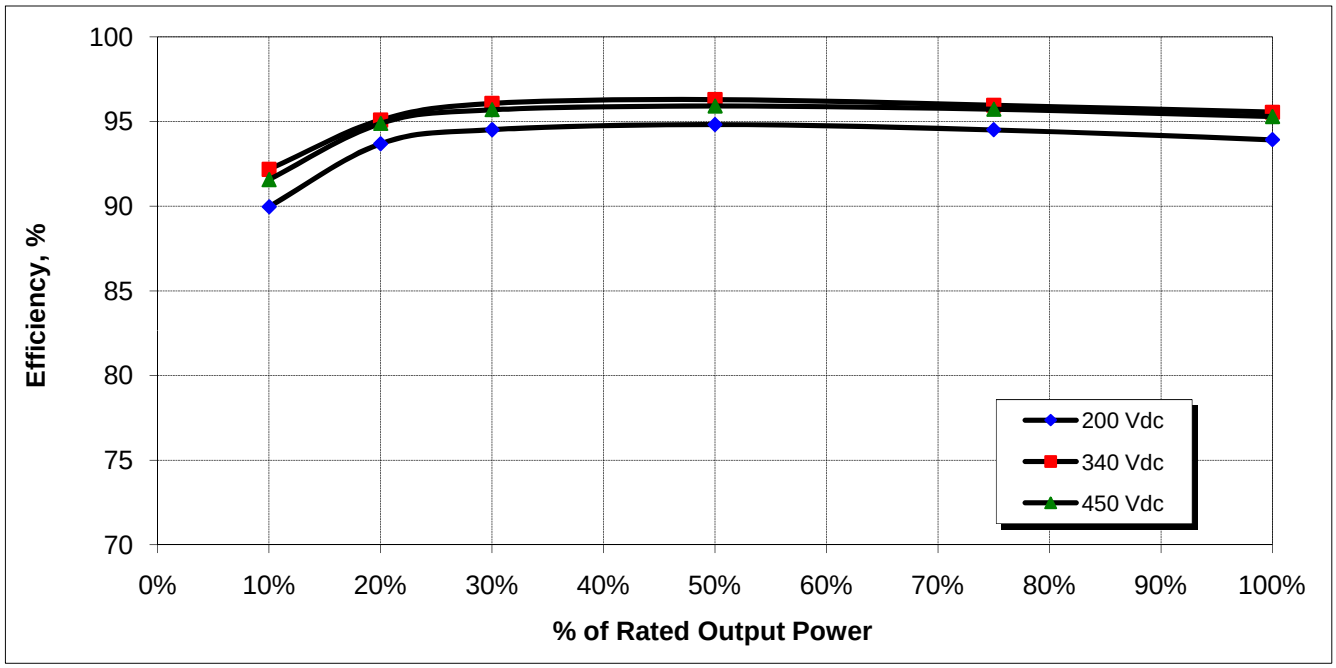
Model #: Ingecon Sun 5U (240V)

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	90.0	93.7	94.5	94.8	94.5	93.9	94.3
Vnom	340	92.2	95.1	96.1	96.3	96.0	95.6	95.8
Vmax	450	91.6	94.9	95.7	95.9	95.7	95.3	95.5

CEC Efficiency = 95.0%



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	0.4761	199.83	90.080	0.467	199.8	90.010	0.452	199.92	89.871	0.447	200.06	89.808	0.454	200.06	89.743
20%	Vmin	1.0916	199.7	93.571	1.089	199.85	93.686	1.081	199.74	93.773	1.067	199.97	93.725	1.068	199.95	93.762
30%	Vmin	1.6233	200.44	94.545	1.607	200.67	94.561	1.6	200.75	94.644	1.596	200.92	94.583	1.61	200.68	94.548
50%	Vmin	2.3999	202.07	94.879	2.396	202.25	94.891	2.4	201.97	94.849	2.42	201.94	94.818	2.429	201.73	94.765
75%	Vmin	3.5346	201.55	94.539	3.552	201.34	94.481	3.559	201.02	94.416	3.561	201.08	94.442	3.546	201.34	94.517
100%	Vmin	4.8139	201.08	93.935	4.83	200.88	93.885	4.815	200.87	93.941	4.811	200.95	93.947	4.805	200.93	93.971
10%	Vnom	0.4485	340.13	92.118	0.448	340.31	92.197	0.453	340.09	92.171	0.461	339.68	92.270	0.462	339.75	92.315
20%	Vnom	1.0662	341.3	95.409	1.066	341.05	95.383	1.066	341.04	92.270	1.065	340.91	95.386	1.066	340.93	95.397
30%	Vnom	1.5742	338.56	96.056	1.576	338.85	96.058	1.578	338.61	96.068	1.574	338.7	96.068	1.575	338.6	96.066
50%	Vnom	2.4436	339.22	96.290	2.445	339.26	96.297	2.445	339.44	96.299	2.448	339.67	96.300	2.446	339.5	96.298
75%	Vnom	3.5237	340.48	95.958	3.525	340.27	95.965	3.524	340.28	95.967	3.524	340.34	95.966	3.524	340.33	95.966
100%	Vnom	4.8115	338.48	95.550	4.809	338.66	95.548	4.805	338.27	95.555	4.806	338.13	95.556	4.808	338.17	95.548
10%	Vmax	0.4888	448.45	91.518	0.49	448.2	91.567	0.491	448	91.607	0.49	448.21	91.520	0.49	448.17	91.588
20%	Vmax	1.0946	449.96	94.853	1.095	449.87	94.908	1.095	450.01	94.840	1.095	449.74	94.878	1.095	449.63	94.880
30%	Vmax	1.6133	448.93	95.685	1.614	448.81	95.688	1.612	448.97	95.674	1.614	-95.7	95.700	1.614	447.8	95.697
50%	Vmax	2.5273	448.59	95.912	2.523	448.47	95.915	2.522	448.47	95.902	2.526	448.52	95.920	2.525	448.45	95.902
75%	Vmax	3.5922	449.86	95.720	3.595	449.91	95.725	3.591	449.8	95.732	3.596	449.82	95.728	3.592	449.75	95.722
100%	Vmax	4.8052	449.91	95.290	4.811	448.87	95.298	4.807	448.91	95.292	4.802	449.09	95.284	4.809	448.91	95.300

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	0.4687	199.79	90.065	0.478	199.71	90.001	0.483	199.63	89.996	0.478	199.71	90.107	0.468	199.72	89.928
20%	Vmin	1.0649	199.96	93.759	1.071	199.74	93.720	1.083	199.6	93.636	1.091	199.59	93.619	1.09	199.35	93.658
30%	Vmin	1.6173	200.88	94.485	1.624	200.68	94.414	1.623	200.63	94.435	1.61	200.9	94.464	1.603	200.65	94.559
50%	Vmin	2.4349	201.78	94.744	2.433	201.69	94.747	2.42	202.01	94.828	2.406	202.32	94.881	2.399	202.26	94.886
75%	Vmin	3.5311	201.52	94.567	3.528	201.53	94.571	3.533	201.38	94.548	3.528	201.23	94.560	3.55	200.93	94.529
100%	Vmin	4.8076	200.88	93.947	4.804	200.98	93.942	4.801	201.08	93.957	4.809	201.13	93.922	4.828	200.67	93.843
10%	Vnom	0.4485	340.11	92.082	0.449	340.09	92.101	0.448	339.99	92.153	0.45	340.16	92.182	0.45	340.53	92.126
20%	Vnom	1.0687	340.74	95.400	1.067	340.92	95.388	1.067	341	95.400	1.066	340.66	95.393	1.066	340.77	95.388
30%	Vnom	1.5741	338.54	96.076	1.574	338.7	96.050	1.575	338.65	96.072	1.573	338.65	96.069	1.573	338.55	96.078
50%	Vnom	2.4473	339.35	96.292	2.449	339.18	96.302	2.449	339.27	96.307	2.447	339.35	96.299	2.449	339.09	96.298
75%	Vnom	3.5293	340.33	95.974	3.524	340.74	95.958	3.523	340.7	95.960	3.525	341.17	95.956	3.523	341.21	95.961
100%	Vnom	4.8059	338.1	95.549	4.808	338.23	95.555	4.81	338.43	95.546	4.812	338.22	95.559	4.807	338.16	95.549
10%	Vmax	0.4895	448.27	91.591	0.49	448.26	91.624	0.491	448.09	91.569	0.491	447.88	91.553	0.49	447.56	91.561
20%	Vmax	1.0952	449.93	94.898	1.096	449.94	94.910	1.095	450.15	94.890	1.095	450.08	94.905	1.096	450.27	94.880
30%	Vmax	1.6162	448.12	95.695	1.615	448.47	95.712	1.614	448.34	95.684	1.614	448.43	95.701	1.614	448.49	95.697
50%	Vmax	2.5244	448.5	95.923	2.522	448.4	95.912	2.521	448.67	95.910	2.525	448.52	95.926	2.523	448.49	95.914
75%	Vmax	3.5907	449.93	95.718	3.59	449.77	95.734	3.595	449.83	95.731	3.596	449.91	95.727	3.595	449.96	95.718
100%	Vmax	4.8102	448.25	95.276	4.818	448.26	95.294	4.814	448.09	95.288	4.818	448.16	95.288	4.814	448.51	95.288