Manufacturer: Ingeteam Power Technology

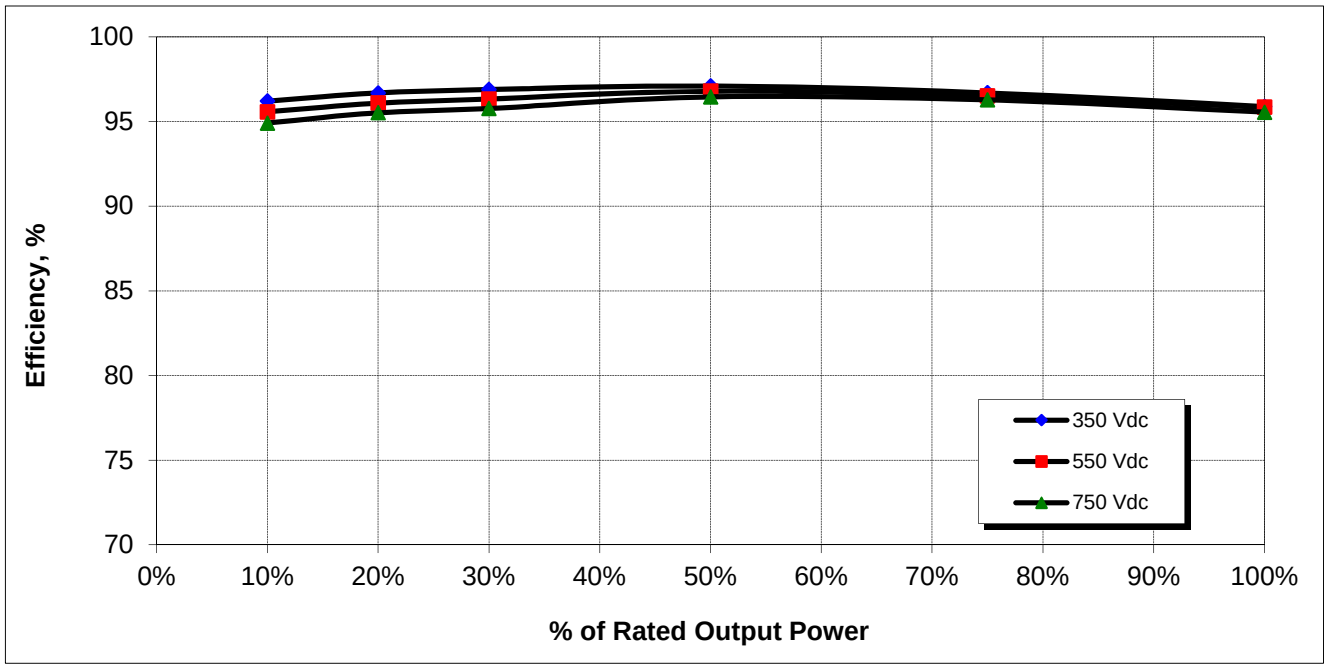
Model #: Ingecon Sun 250TL U X208 Outdoor

Rated Maximum Continuous Output Power: 250 kW Night Tare Loss: 60.0 W

Vmin: 350 Vdc Vnom: 550 Vdc Vmax: 750 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		25	50	75	125	188	250	Wtd
Vmin	350	96.2	96.7	96.9	97.1	96.7	95.9	96.7
Vnom	550	95.6	96.1	96.3	96.8	96.5	95.8	96.5
Vmax	750	94.9	95.5	95.8	96.5	96.3	95.6	96.1

CEC Efficiency = 97%



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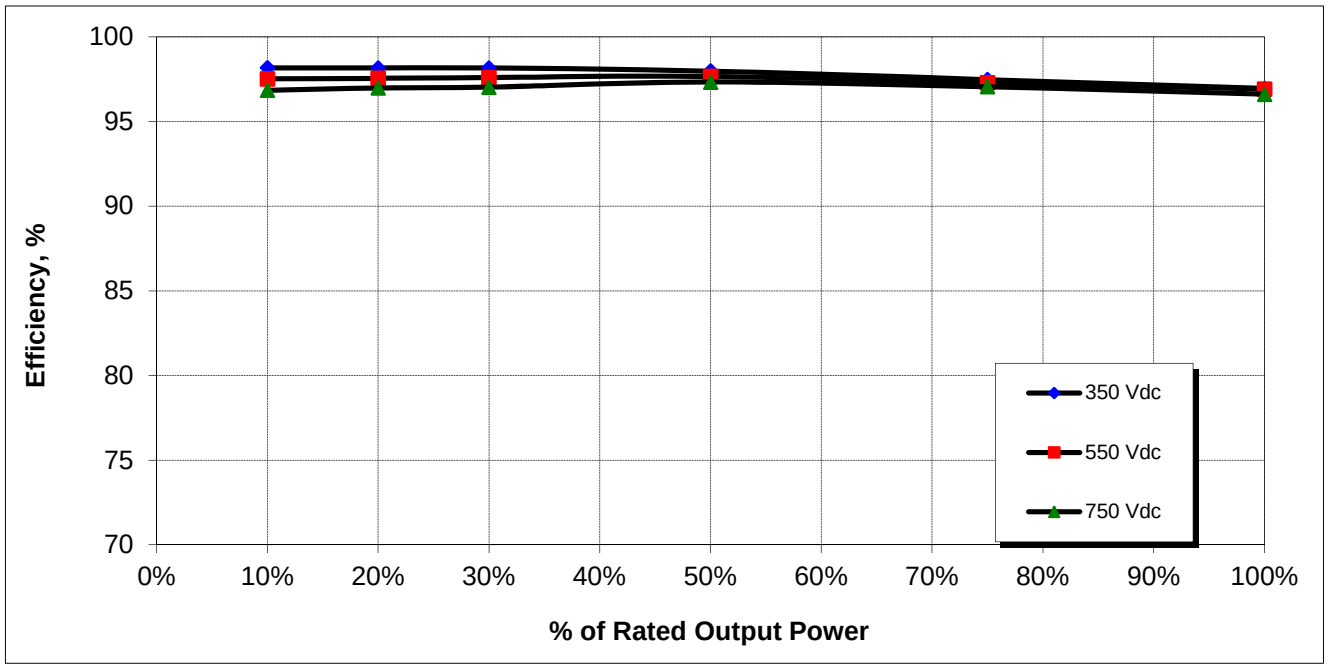
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		25.00	50.00	75.00	125.00	187.50	250.00	Wtd
Vmin	350	98.2	98.2	98.2	98.0	97.5	97.0	97.7
Vnom	550	97.5	97.6	97.6	97.7	97.3	96.9	97.4
Vmax	750	96.8	97.0	97.0	97.3	97.1	96.6	97.1

Inverter Efficiency w/o Transformer= 98%



Transformer Efficiency

	Power Level (%; kW)						
	10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)	25.00	50.00	75.00	125.00	187.50	250.00	Wtd
Vmin	98.0	98.5	98.7	99.1	99.2	98.9	99.0
Vnom	98.0	98.5	98.7	99.1	99.2	98.9	99.0
Vmax	98.0	98.5	98.7	99.1	99.2	98.9	99.0

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	23.95	351.01	98.169	23.858	350.82	98.202	23.826	350.97	98.175	23.957	350.97	98.165	23.879	350.93	98.133
20%	Vmin	54.458	352.79	98.172	54.665	352.89	98.150	54.628	352.85	98.151	54.583	352.85	98.163	54.555	352.85	98.168
30%	Vmin	80.28	353.37	98.160	80.483	353.35	98.175	80.4	353.28	98.163	80.167	353.4	98.157	80.217	353.28	98.162
50%	Vmin	117.319	354.04	97.994	116.999	353.96	97.980	116.892	354.1	97.972	116.949	353.99	97.975	117.776	354.08	97.988
75%	Vmin	179.621	350.77	97.466	179.488	350.49	97.475	179.308	350.89	97.468	179.622	350.99	97.471	180.483	350.29	97.484
100%	Vmin	239.689	351.71	96.943	240.423	351.84	96.948	241.26	351.34	96.958	240.578	351.89	96.952	240.495	351.88	96.965
10%	Vnom	23.818	551.38	97.514	23.824	551.41	97.489	23.799	551.38	97.507	23.688	551.56	97.520	23.631	551.48	97.569
20%	Vnom	52.797	549.97	97.549	52.719	550.05	97.539	52.78	550.05	97.547	52.799	550.08	97.548	52.69	549.99	97.572
30%	Vnom	77.482	550.64	97.608	77.305	550.54	97.608	77.39	550.69	97.590	77.585	550.55	97.577	77.602	550.72	97.594
50%	Vnom	114.811	549.74	97.660	115.079	549.63	97.665	115.381	549.72	97.691	115.145	549.69	97.668	114.898	549.96	97.662
75%	Vnom	178.73	553.37	97.291	178.952	553.56	97.298	178.305	553.35	97.277	178.448	553.45	97.278	179.176	553.82	97.294
100%	Vnom	238.889	553.96	96.924	239.768	553.37	96.918	238.068	553.85	96.899	237.45	553.58	96.892	238.406	553.79	96.916
10%	Vmax	23.472	750.37	96.846	23.424	750.41	96.929	23.382	750.32	96.859	23.369	750.33	96.805	23.352	750.43	96.798
20%	Vmax	52.442	749.41	97.004	52.184	749.35	96.976	52.397	749.42	96.976	52.287	749.42	96.961	52.225	749.45	96.967
30%	Vmax	77.171	749.66	97.069	76.871	749.7	96.998	76.85	749.75	97.042	76.772	749.54	97.002	77.033	749.6	97.047
50%	Vmax	115.615	749.1	97.323	116.054	748.99	97.350	115.842	749.16	97.339	115.309	749.04	97.323	115.435	749.05	97.323
75%	Vmax	178.307	751.09	97.050	178.11	751.2	97.062	176.817	751.45	97.043	177.872	751.58	97.065	178.166	751.44	97.054
100%	Vmax	239.663	752.22	96.638	238.977	752.12	96.609	240.165	752.36	96.630	238.64	752.08	96.609	238.401	752.31	96.595

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															
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															