Manufacturer: **Ingeteam Power Technology**

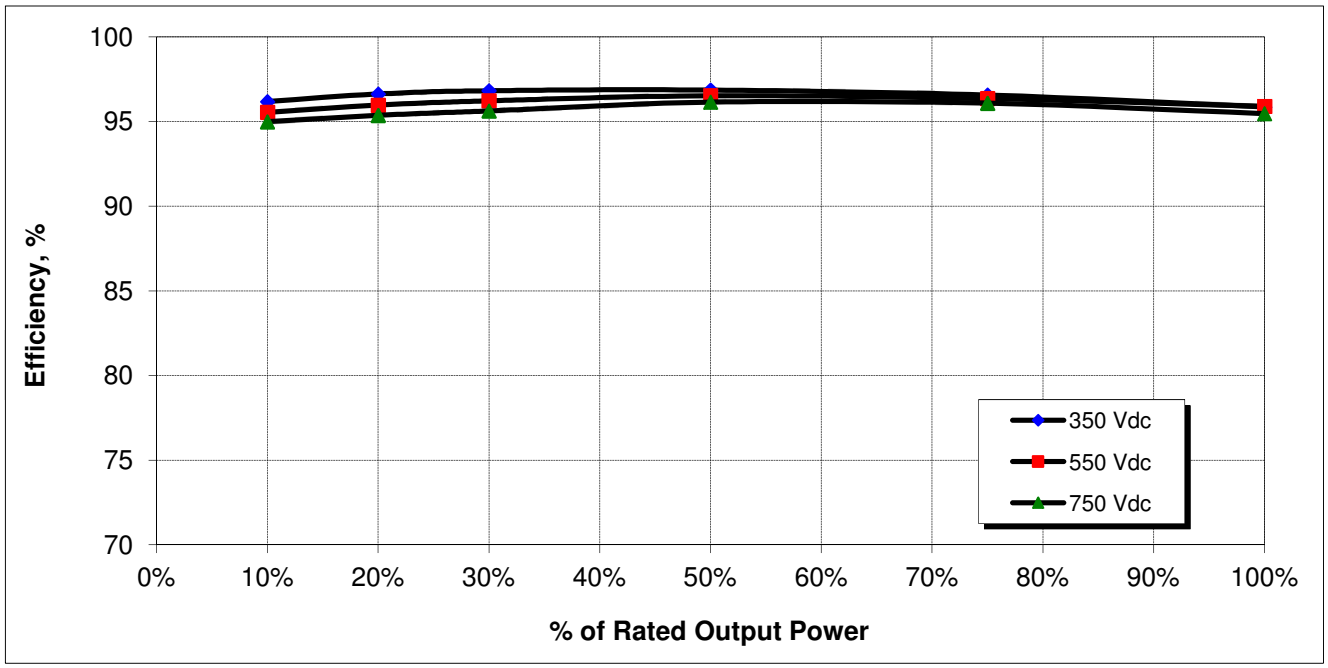
Model #: **Ingecon Sun 500TL U X208 Outdoor**

Rated Maximum Continuous Output Power: 500 kW Night Tare Loss: 120.0 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50	100	150	250	375	500	Wtd
Vmin	350	96.2	96.6	96.8	96.9	96.6	95.9	96.6
Vnom	550	95.5	96.0	96.2	96.5	96.4	95.9	96.3
Vmax	750	95.0	95.4	95.6	96.1	96.1	95.5	95.9

CEC Efficiency = 96.5%



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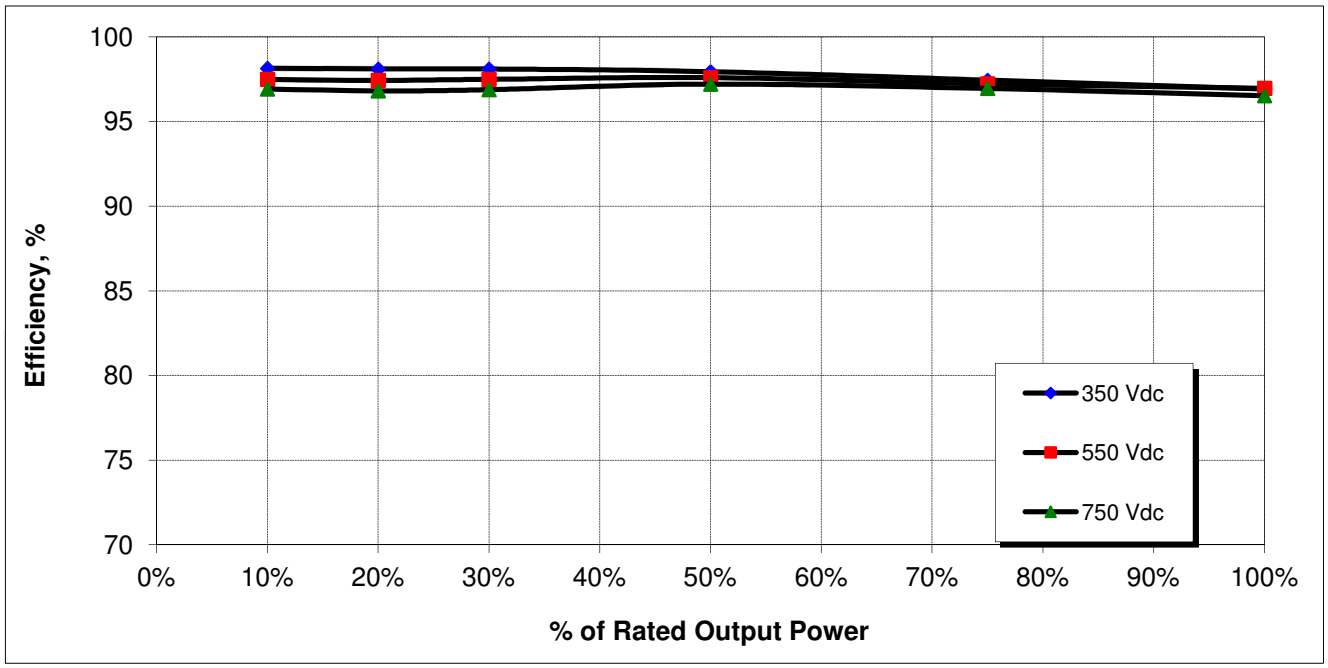
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	350	98.1	98.1	98.1	97.9	97.4	96.9	97.7
Vnom	550	97.5	97.4	97.5	97.6	97.2	97.0	97.3
Vmax	750	96.9	96.8	96.9	97.2	97.0	96.5	97.0

Inverter Efficiency w/o Transformer= 97.5%



Transformer Efficiency

	Power Level (%; kW)						
	10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)	50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	98.0	98.5	98.7	98.9	99.1	98.9	98.9
Vnom	98.0	98.5	98.7	98.9	99.1	98.9	98.9
Vmax	98.0	98.5	98.7	98.9	99.1	98.9	98.9

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	47.6641	350.82	98.126	47.58	350.981	98.133	47.58	351.024	98.142	47.7	350.893	98.163	47.55	350.935	98.132
20%	Vmin	109.488	352.92	98.096	109.7	352.836	98.108	109.3	352.753	98.102	109.6	352.838	98.102	109	352.851	98.089
30%	Vmin	160.744	353.35	98.092	160.6	353.277	98.091	160.4	353.236	98.101	160.4	353.489	98.096	160.8	353.387	98.102
50%	Vmin	235.313	354.08	97.937	235.7	353.894	97.938	235.3	353.994	97.941	235.2	353.924	97.937	236.6	353.959	97.937
75%	Vmin	360.633	350.29	97.443	361.3	350.753	97.443	360.6	350.968	97.439	361	351.082	97.439	361.3	350.756	97.441
100%	Vmin	481.996	351.34	96.924	480.6	351.886	96.914	480.3	351.881	96.910	482.6	351.86	96.924	483.3	351.772	96.930
10%	Vnom	47.5729	551.38	97.487	47.54	551.378	97.481	47.31	551.557	97.486	47.2	551.48	97.535	47.14	551.432	97.479
20%	Vnom	105.341	549.97	97.428	105.2	550.05	97.419	105.3	550.046	97.427	105.4	550.083	97.447	105.1	549.987	97.432
30%	Vnom	154.639	550.64	97.493	154.5	550.691	97.499	154.9	550.72	97.490	154.4	550.56	97.499	154.7	550.627	97.490
50%	Vnom	229.831	549.63	97.591	230.4	549.722	97.609	230	549.694	97.593	230.3	549.698	97.595	230.5	549.743	97.593
75%	Vnom	359.037	553.45	97.243	356.8	553.491	97.231	358.9	553.621	97.239	356.8	553.491	97.231	357.9	553.818	97.225
100%	Vnom	477	553.96	96.855	478.9	553.369	96.858	475.4	553.853	96.836	474.3	553.584	96.836	476.1	553.788	96.849
10%	Vmax	46.8519	750.37	96.925	46.76	750.214	97.006	46.67	750.343	96.942	46.65	750.338	96.882	46.61	750.435	96.882
20%	Vmax	104.002	749.35	96.810	104.3	749.424	96.850	104.1	749.445	96.813	103.8	749.244	96.816	104	749.407	96.811
30%	Vmax	153.813	749.66	96.897	153.2	749.537	96.867	153.7	749.599	96.904	153.5	749.835	96.876	153	749.717	96.883
50%	Vmax	230.688	749.1	97.212	231.5	748.987	97.227	231.1	749.159	97.218	230.1	749.036	97.213	230.9	749.111	97.206
75%	Vmax	355.971	751.09	96.957	355.5	751.201	96.958	355	751.581	96.959	355.6	751.44	96.954	354.2	751.337	96.963
100%	Vmax	478.323	752.22	96.543	477	752.115	96.529	479.3	752.357	96.533	476	752.146	96.521	476.9	752.308	96.527

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															