Manufacturer: **Ingeteam Power Technology**

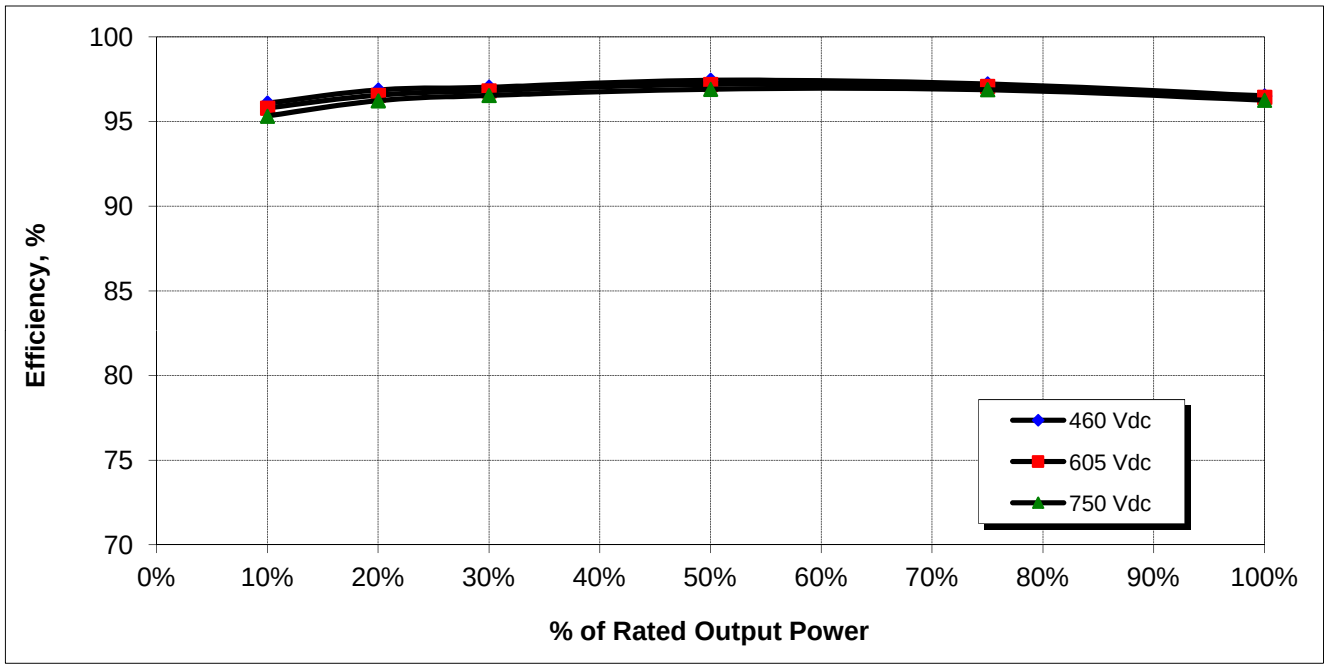
Model #: **Ingecon Sun 500TL U X275 Indoor**

Rated Maximum Continuous Output Power: 500 kW Night Tare Loss: 90.0 W

Vmin: 460 Vdc Vnom: 605 Vdc Vmax: 750 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50	100	150	250	375	500	Wtd
Vmin	460	96.1	96.9	97.0	97.4	97.2	96.5	97.2
Vnom	605	95.8	96.6	96.8	97.2	97.1	96.4	97.0
Vmax	750	95.3	96.2	96.5	96.9	96.9	96.3	96.7

CEC Efficiency = 97.0%



Manufacturer: **Ingeteam Power Technology**

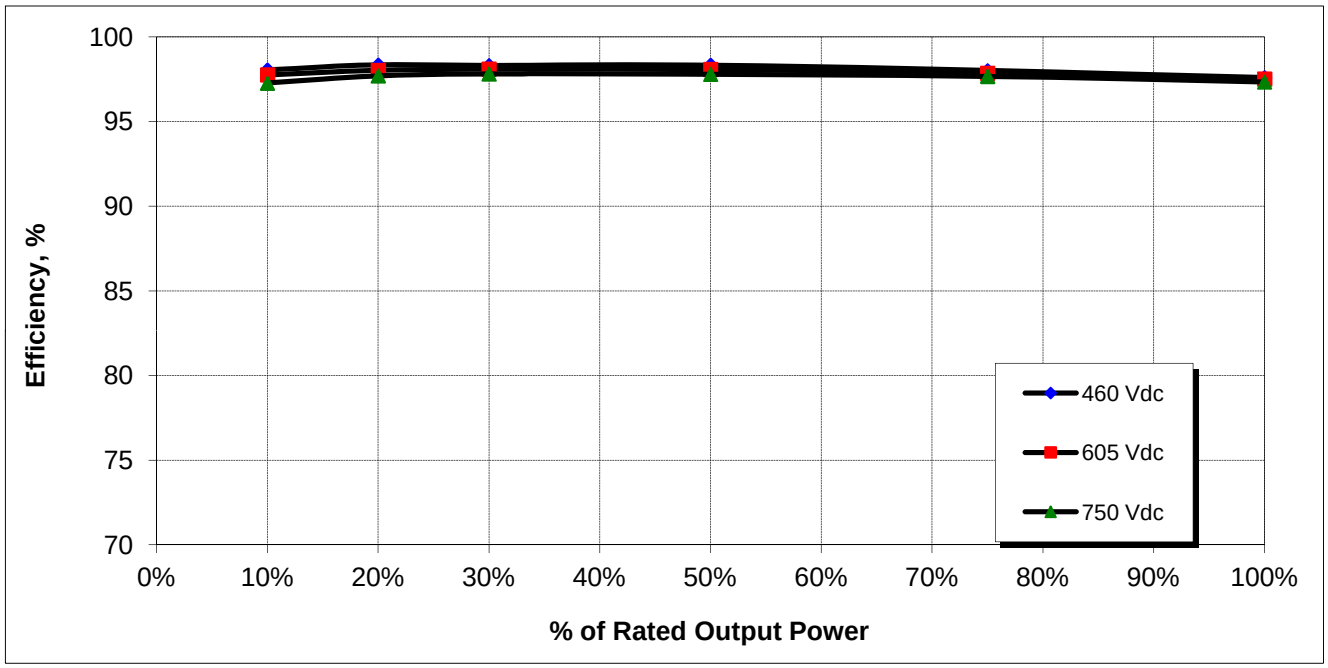
Model #: **Ingecon Sun 500TL U X208 Indoor**

Rated Maximum Continuous Output Power: 500 kW Night Tare Loss: 90.0 W

Vmin: 460 Vdc Vnom: 605 Vdc Vmax: 750 Vdc

		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	460	98.1	98.3	98.3	98.3	98.0	97.6	98.1
Vnom	605	97.8	98.0	98.1	98.1	97.9	97.5	97.9
Vmax	750	97.3	97.7	97.8	97.8	97.7	97.3	97.7

Inverter Efficiency w/o Transformer= 98.0%



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	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	48.9816	462.37	98.071	48.8804	462.31	98.057	48.8913	462.53	98.049	49.1181	462.37	98.045	49.1685	462.44	98.029
20%	Vmin	107.884	461.71	98.355	107.61	461.76	98.347	107.907	461.8	98.349	107.713	461.82	98.346	108.102	461.68	98.349
30%	Vmin	160.829	461.26	98.304	161.008	461.01	98.319	160.817	461.19	98.306	160.473	461.02	98.315	161.291	461.03	98.308
50%	Vmin	231.629	461.57	98.324	232.454	461.5	98.333	232.99	461.45	98.323	233.097	461.47	98.330	233.578	461.4	98.331
75%	Vmin	358.64	462.33	98.012	360.484	462.01	98.008	359.575	461.78	98.009	361.382	462.12	98.015	361.007	462.11	98.021
100%	Vmin	479.656	462.37	97.586	480.141	462.36	97.596	480.18	462.41	97.588	480.775	462.24	97.596	480.567	462.41	97.586
10%	Vnom	48.2177	606.22	97.730	48.2528	606.09	97.748	48.2924	606.15	97.769	48.3225	606.23	97.762	48.2037	606.23	97.776
20%	Vnom	109.953	605.63	98.010	109.475	605.54	98.015	109.608	605.64	98.059	109.867	605.61	98.046	109.956	605.53	98.018
30%	Vnom	158.279	606.97	98.088	158.929	606.95	98.090	159.162	606.98	98.093	158.948	606.99	98.099	158.718	606.96	98.098
50%	Vnom	235.548	603.99	98.073	235.858	603.92	98.075	235.473	605.8	98.071	230.516	605.79	98.078	231.223	605.82	98.080
75%	Vnom	354.282	605.01	97.851	356.566	604.78	97.861	356.547	605.06	97.864	356.199	604.78	97.865	355.686	604.83	97.860
100%	Vnom	484.484	605.48	97.503	484.73	605.53	97.501	480.802	605.69	97.521	481.371	605.55	97.526	481.463	605.52	97.531
10%	Vmax	48.1348	750.47	97.333	48.0474	750.32	97.279	48.0521	750.54	97.253	47.7719	750.39	97.244	47.9125	750.37	97.243
20%	Vmax	107.12	749.93	97.679	107.797	749.95	97.684	107.887	749.87	97.696	107.703	750.02	97.686	94.2234	686.43	97.729
30%	Vmax	158.229	749.7	97.820	158.255	749.59	97.826	158.543	749.68	97.806	157.279	749.62	97.802	157.493	749.68	97.809
50%	Vmax	230.432	750.72	97.790	230.62	750.62	97.793	231.526	750.72	97.791	231.279	750.69	97.796	231.294	750.65	97.790
75%	Vmax	356.704	751.77	97.687	354.833	751.82	97.675	353.761	751.92	97.660	353.106	751.96	97.667	352.885	751.91	97.662
100%	Vmax	479.608	747.05	97.327	480.902	746.93	97.327	479.683	746.97	97.330	481.743	751.01	97.344	481.312	750.86	97.346

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															