Manufacturer: **Ingeteam Power Technology**

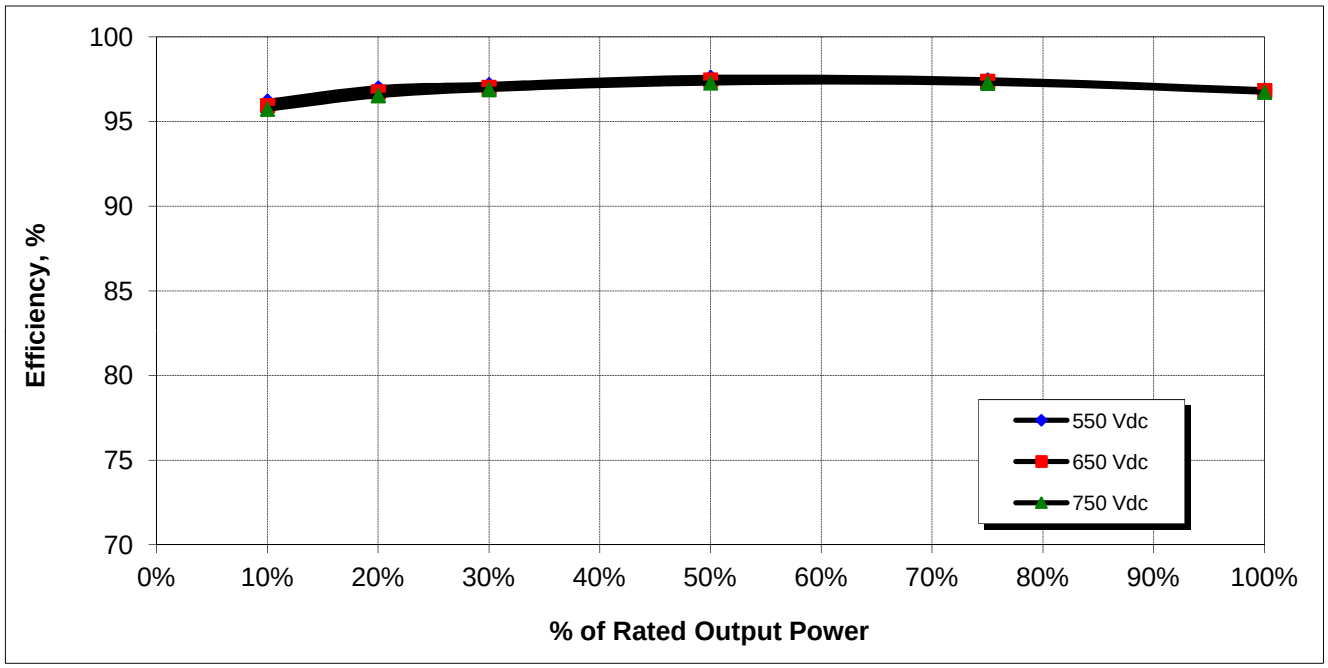
Model #: **Ingecon Sun 600TL U X330 Outdoor**

Rated Maximum Continuous Output Power: 600 kW Night Tare Loss: 90.0 W

Vmin: 550 Vdc Vnom: 650 Vdc Vmax: 750 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		60	120	180	300	450	600	Wtd
Vmin	550	96.2	97.0	97.2	97.6	97.5	96.9	97.4
Vnom	650	95.9	96.7	97.0	97.5	97.4	96.8	97.2
Vmax	750	95.7	96.5	96.9	97.3	97.3	96.7	97.1

CEC Efficiency = 97.0%



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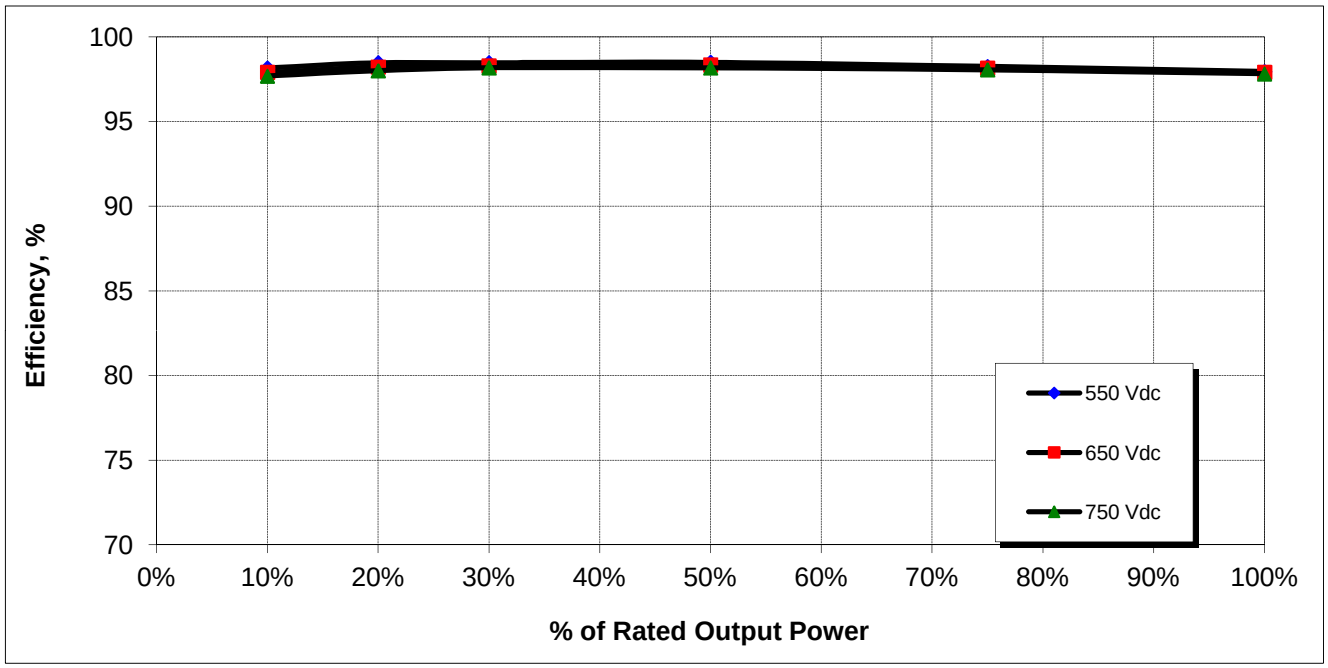
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		60.00	120.00	180.00	300.00	450.00	600.00	Wtd
Vmin	550	98.2	98.5	98.5	98.5	98.3	97.9	98.3
Vnom	650	97.9	98.2	98.3	98.3	98.2	97.9	98.2
Vmax	750	97.7	98.0	98.2	98.2	98.1	97.8	98.1

Inverter Efficiency w/o Transformer= 98.0%



Transformer Efficiency

	Power Level (%; kW)						
	10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)	60.00	120.00	180.00	300.00	450.00	600.00	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	58.9932	549.78	98.141	59.0752	549.59	98.165	58.9454	549.72	98.218	57.0388	549.7	98.153	57.1151	549.65	98.141
20%	Vmin	130.694	549	98.464	130.135	549.04	98.463	130.715	549.11	98.469	130.312	548.94	98.467	130.319	549.14	98.478
30%	Vmin	192.3	550.33	98.469	192.258	550.46	98.470	193.015	550.3	98.473	192.945	550.4	98.471	192.847	550.37	98.483
50%	Vmin	274.553	552.95	98.490	274.279	552.84	98.486	274.455	552.94	98.492	273.989	552.95	98.486	275.035	552.85	98.499
75%	Vmin	427.358	551.84	98.253	427.313	551.75	98.250	428.068	551.74	98.253	428.029	551.73	98.255	426.943	551.84	98.247
100%	Vmin	573.916	549.93	97.946	576.56	550.01	97.956	576.39	550.01	97.952	576.85	550.07	97.944	576.429	549.92	97.946
10%	Vnom	57.215	653.11	97.883	59.3694	651	97.896	59.165	650.88	97.896	59.4794	651.11	97.897	59.3832	650.95	97.959
20%	Vnom	129.101	650.54	98.221	129.337	650.56	98.219	129.36	650.46	98.235	129.512	650.53	98.217	129.123	650.5	98.221
30%	Vnom	188.482	651.93	98.294	188.168	652.01	98.294	188.601	652.06	98.294	192.151	652	98.292	192.693	651.94	98.300
50%	Vnom	277.935	650.85	98.335	277.784	650.74	98.341	278.826	650.76	98.333	279.482	650.7	98.343	278.411	650.96	98.343
75%	Vnom	425.321	651.96	98.158	424.531	651.74	98.157	427.014	651.75	98.160	426.346	651.87	98.158	427.039	651.78	98.160
100%	Vnom	579.857	650.23	97.917	579.236	650.37	97.917	579.201	650.29	97.916	578.051	650.38	97.915	579.007	650.05	97.921
10%	Vmax	57.1637	750.45	97.686	57.1695	750.33	97.682	57.175	750.42	97.686	56.9556	750.41	97.690	56.6315	750.38	97.679
20%	Vmax	130.456	749.97	97.986	130.348	749.92	97.986	131.15	749.97	98.011	130.62	750.02	97.997	130.767	749.87	97.998
30%	Vmax	189.811	749.53	98.169	189.5	749.38	98.167	188.689	749.59	98.166	188.382	749.43	98.179	188.772	749.27	98.170
50%	Vmax	279.451	750.61	98.163	280.102	750.38	98.161	280.312	750.41	98.172	279.575	750.32	98.174	274.731	750.48	98.166
75%	Vmax	424.071	751.96	98.054	423.699	751.82	98.052	424.412	751.69	98.056	422.369	751.78	98.050	424.42	751.66	98.051
100%	Vmax	579.41	748.35	97.810	579.769	748.28	97.809	580.941	748.36	97.807	579.373	748.45	97.810	580.191	748.42	97.807

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															