Manufacturer: **Ingeteam Power Technology**

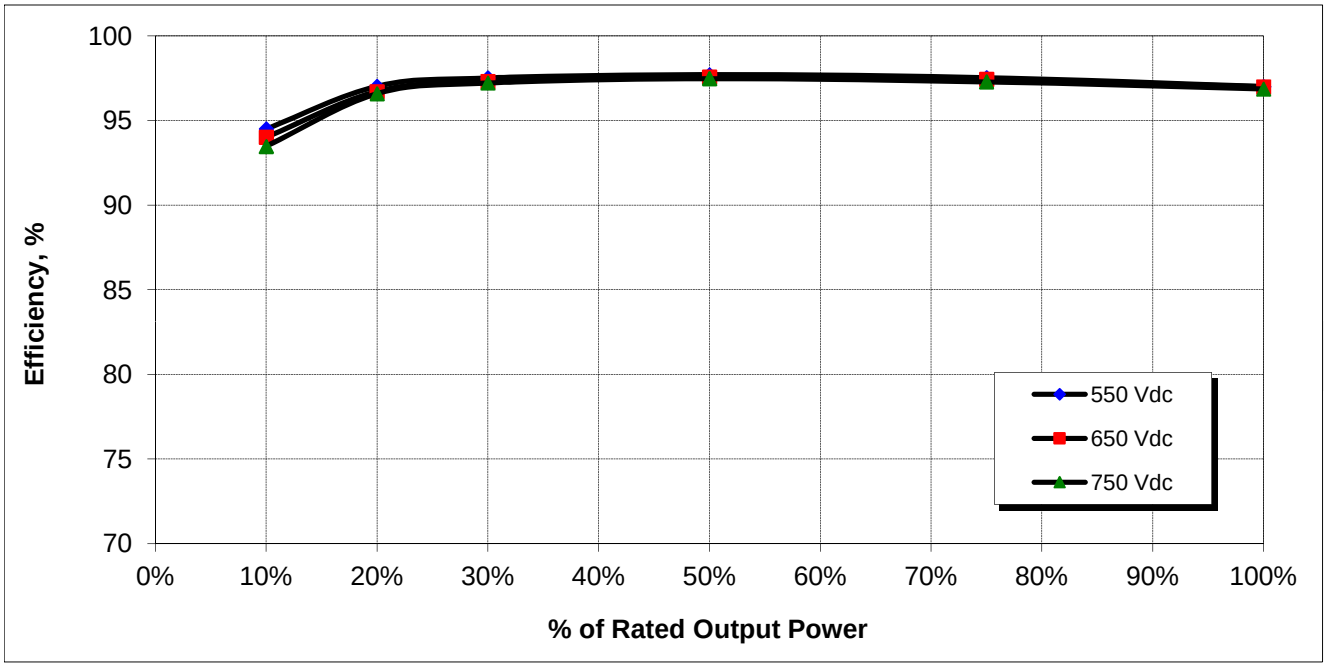
Model #: **Ingecon Sun 200 TL U 330 Outdoor**

Rated Maximum Continuous Output Power: 200.00 kW Night Tare Loss: 1.00 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		20.00	40.00	60.00	100.00	150.00	200.00	Wtd
Vmin	550	94.5	97.0	97.5	97.7	97.5	97.0	97.4
Vnom	650	94.0	96.7	97.3	97.6	97.4	97.0	97.2
Vmax	750	93.5	96.6	97.2	97.5	97.3	96.9	97.1

CEC Efficiency = 97.5%



Transformer Efficiency

	Power Level (%; kW)						
	10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)	20.00	40.00	60.00	100.00	150.00	200.00	Wtd
Vmin	95.4	97.7	98.2	98.5	98.4	98.3	98.3
Vnom	95.4	97.7	98.2	98.5	98.4	98.3	98.3
Vmax	95.4	97.7	98.2	98.5	98.4	98.3	98.3

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)	(%)	(W)	(Vdc)	(%)
10%	Vmin	19,567	550.7	94.529	19,373	550.7	94.481	19,373	550.7	94.479	19,472	550.8	94.484	19,600	550.75	94.55
20%	Vmin	43,115	550.5	96.993	43,210	550.5	97.004	43,415	550.5	97.022	43,666	550.5	97.023	43,745	550.515	97.03
30%	Vmin	64,087	549.3	97.507	64,269	549.4	97.514	64,318	549.3	97.507	64,333	549.4	97.511	64,123	549.372	97.50
50%	Vmin	91,792	551.7	97.707	91,878	551.7	97.707	91,592	551.7	97.701	91,302	551.7	97.701	91,331	551.76	97.70
75%	Vmin	141,887	551.7	97.518	142,828	551.7	97.533	142,609	551.7	97.528	142,891	551.7	97.531	141,597	551.763	97.52
100%	Vmin	194,255	550.7	97.039	192,329	550.8	97.013	191,105	550.7	96.997	190,996	550.7	96.985	192,600	550.636	96.99
10%	Vnom	19,567	650.3	94.005	19,373	650.3	94.033	19,373	650.3	94.021	19,472	650.3	94.021	19,600	650.352	93.97
20%	Vnom	43,079	649.1	96.718	42,912	649.1	96.727	42,677	649.1	96.714	42,472	649.1	96.695	42,613	649.131	96.68
30%	Vnom	62,827	650.2	97.287	62,713	650.1	97.278	62,832	650.1	97.291	63,212	650.1	97.301	63,458	650.074	97.32
50%	Vnom	91,137	651.4	97.567	90,901	651.4	97.569	90,753	651.5	97.57	90,496	651.5	97.56	90,583	651.532	97.56
75%	Vnom	142,324	649.7	97.423	142,788	649.8	97.443	142,570	649.8	97.44	142,361	649.8	97.442	141,892	649.869	97.43
100%	Vnom	192,371	651.6	97.001	191,945	651.6	97	190,802	651.6	96.98	190,428	651.5	96.965	191,804	651.508	96.97
10%	Vmax	18,966	749.7	93.494	18,992	749.7	93.518	18,932	749.8	93.49	18,811	749.8	93.456	18,684	749.778	93.38
20%	Vmax	42,872	748.9	96.583	42,614	748.9	96.569	42,842	748.9	96.557	42,960	748.9	96.598	43,223	748.868	96.62
30%	Vmax	63,782	749.4	97.211	63,864	749.4	97.214	64,279	749.4	97.228	64,228	749.4	97.23	64,034	749.424	97.21
50%	Vmax	91,608	751.2	97.474	92,002	751.2	97.488	92,235	751.1	97.49	91,667	751.1	97.478	91,240	751.123	97.47
75%	Vmax	141,410	751.2	97.296	141,420	751.2	97.301	141,689	751.1	97.301	141,750	751.1	97.292	141,268	751.123	97.27
100%	Vmax	199,927	748.9	96.878	199,830	748.9	96.861	199,717	748.9	96.846	199,694	748.9	96.861	201,392	748.878	96.85

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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(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															