Manufacturer: **Ingeteam Power Technology**

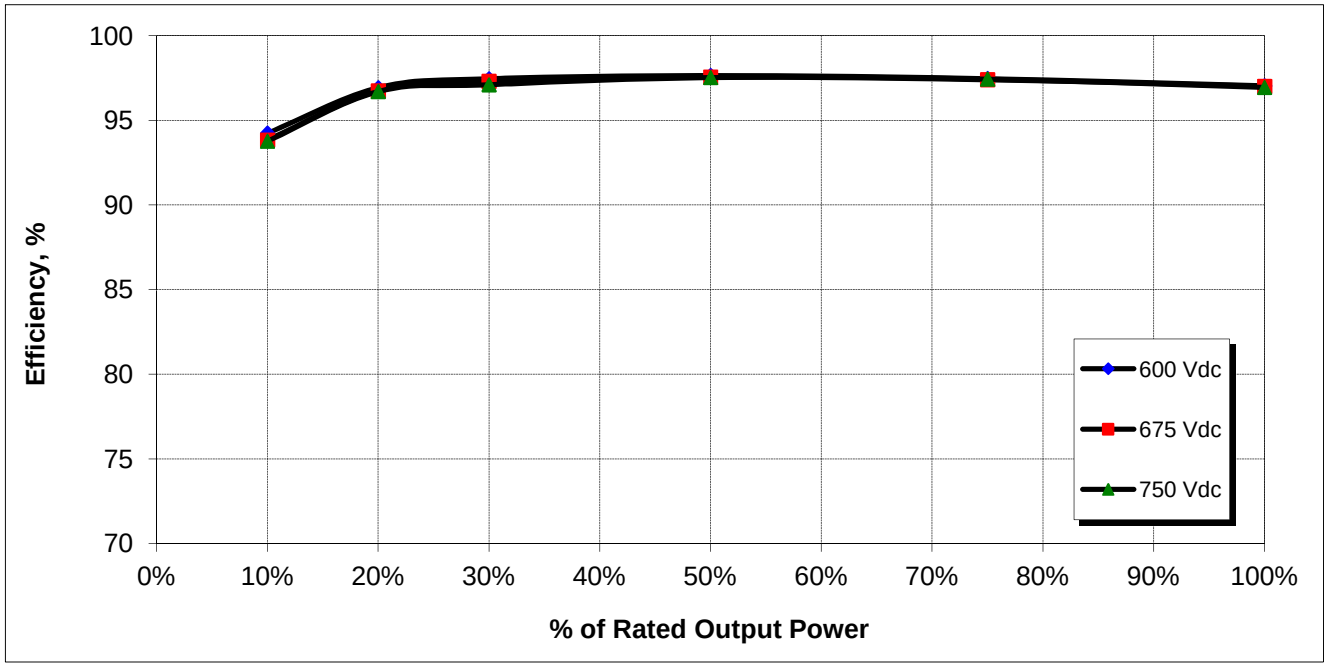
Model #: **Ingecon Sun 220 TL U 360 Outdoor**

Rated Maximum Continuous Output Power: 220.00 kW Night Tare Loss: 1.00 W

Vmin: 600 Vdc Vnom: 675 Vdc Vmax: 750 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		22.00	44.00	66.00	110.00	165.00	220.00	Wtd
Vmin	600	94.2	96.9	97.5	97.6	97.5	97.0	97.33
Vnom	675	93.8	96.7	97.3	97.5	97.4	97.0	97.22
Vmax	750	93.8	96.7	97.1	97.5	97.4	96.9	97.21

CEC Efficiency = 97.5%



Transformer Efficiency

	Power Level (%; kW)						
	10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)	22.00	44.00	66.00	110.00	165.00	220.00	Wtd
Vmin	94.8	97.4	97.9	98.1	98.1	97.8	97.9
Vnom	94.8	97.4	97.9	98.1	98.1	97.8	97.9
Vmax	94.8	97.4	97.9	98.1	98.1	97.8	97.9

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)	(%)	(W)	(Vdc)	(%)
10%	Vmin	21,460	599.3	94.205	21,703	599.1	94.256	21,688	599	94.258	21,643	598.8	94.237	21,554	598.767	94.224
20%	Vmin	48,008	599.4	96.933	47,945	599.4	96.921	47,691	599.4	96.921	47,735	599.4	96.919	47,841	599.409	96.911
30%	Vmin	69,838	598.2	97.444	70,151	598.3	97.467	70,421	598.2	97.471	70,188	598.2	97.458	70,513	598.228	97.464
50%	Vmin	101,132	599.9	97.66	100,710	599.9	97.647	100,626	599.9	97.643	100,483	599.9	97.638	100,597	599.861	97.633
75%	Vmin	154,737	599	97.457	154,617	599	97.458	155,875	598.9	97.477	156,097	598.9	97.468	156,362	598.943	97.475
100%	Vmin	213,344	600.4	97.068	211,930	600.5	97.04	211,009	600.5	97.037	209,659	600.5	97.023	208,731	600.591	97.007
10%	Vnom	21,714	674.1	93.888	21,796	674	93.874	21,358	674	93.792	21,367	674	93.806	21,395	674.038	93.827
20%	Vnom	47,061	675.6	96.725	47,339	675.7	96.724	47,517	675.7	96.757	47,489	675.7	96.753	47,299	675.755	96.721
30%	Vnom	69,607	674	97.306	69,736	674	97.311	69,606	673.9	97.301	69,151	673.8	97.288	69,237	673.633	97.286
50%	Vnom	99,637	675.9	97.541	99,857	675.9	97.546	100,468	675.8	97.551	100,327	675.9	97.544	100,328	675.896	97.558
75%	Vnom	156,244	674.5	97.398	157,279	674.5	97.405	156,471	674.5	97.4	155,571	674.5	97.391	155,195	674.427	97.383
100%	Vnom	212,541	674.9	97.024	212,397	674.9	97.023	210,676	674.8	97.007	209,668	674.9	96.994	209,366	674.908	96.986
10%	Vmax	21,434	750.6	93.744	21,462	750.7	93.739	21,482	750	93.792	21,350	750.4	93.783	21,284	749.935	93.780
20%	Vmax	47,412	750.3	96.671	47,791	750.3	96.693	48,054	749.5	96.729	48,076	750.6	96.709	47,910	749.994	96.675
30%	Vmax	69,607	749.4	97.108	69,736	749.4	97.113	69,606	749.4	97.103	69,151	749.4	97.09	69,237	749.424	97.089
50%	Vmax	101,218	750.1	97.538	100,793	750.3	97.528	100,795	749.3	97.525	100,727	750.8	97.527	100,971	749.256	97.527
75%	Vmax	155,599	750.1	97.441	155,086	750.3	97.431	155,025	749.3	97.428	155,454	750.8	97.433	156,071	749.256	97.433
100%	Vmax	213,616	748.6	96.96	212,497	748.6	96.966	211,191	748.7	96.944	209,921	748.7	96.928	209,225	748.752	96.923

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															