Manufacturer: **Ingeteam Power Technology**

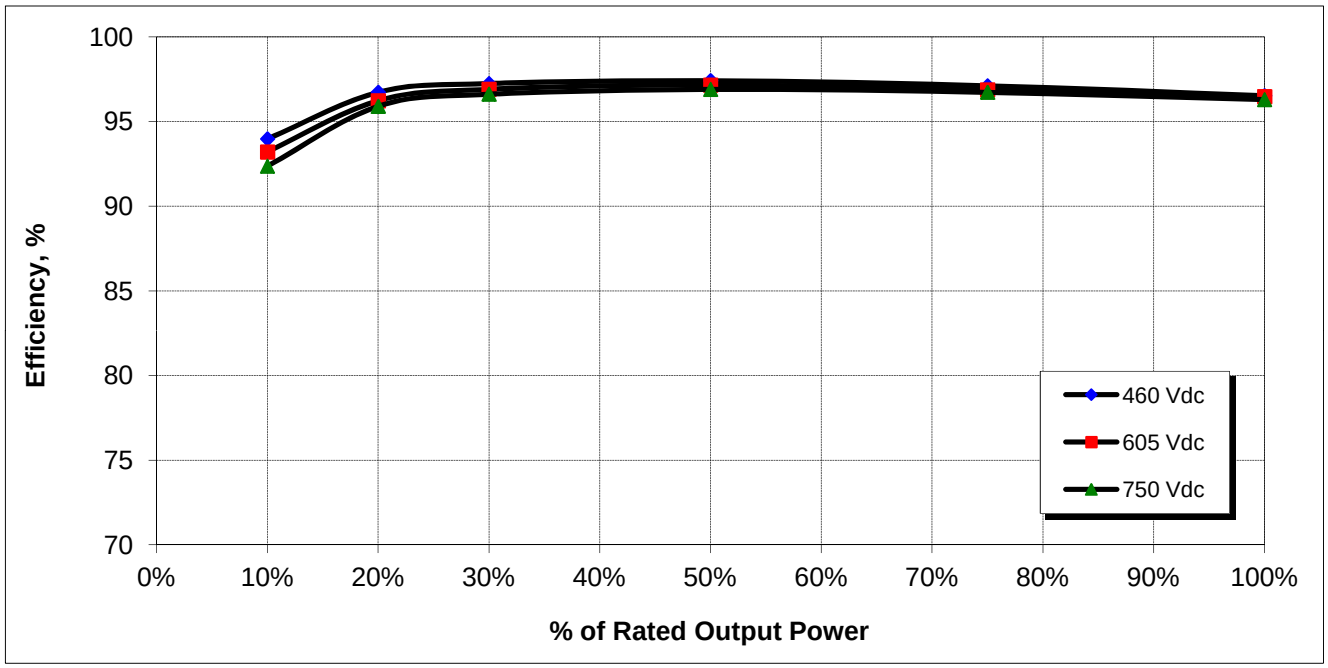
Model #: **Ingecon Sun 165 TL U 275 Outdoor**

Rated Maximum Continuous Output Power: 165.00 kW Night Tare Loss: 1.00 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		16.50	33.00	49.50	82.50	123.75	165.00	Wtd
Vmin	460	94.0	96.7	97.2	97.4	97.1	96.5	97.0
Vnom	605	93.2	96.2	96.9	97.2	96.9	96.5	96.7
Vmax	750	92.4	95.9	96.6	96.9	96.7	96.3	96.5

CEC Efficiency = 97.0%



Transformer Efficiency

	Power Level (%; kW)						
	10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)	16.50	33.00	49.50	82.50	123.75	165.00	Wtd
Vmin	95.6	97.8	98.3	98.5	98.4	98.2	98.3
Vnom	95.6	97.8	98.3	98.5	98.4	98.2	98.3
Vmax	95.6	97.8	98.3	98.5	98.4	98.2	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	15,751	459.5	94.048	15,747	459.5	94.025	15,596	459.5	93.969	15,524	459.5	93.903	15,583	459.478	93.929
20%	Vmin	35,855	459.8	96.732	35,787	459.8	96.732	35,678	459.8	96.727	35,780	459.8	96.735	35,677	459.828	96.719
30%	Vmin	52,747	461.4	97.237	52,875	461.4	97.244	53,052	461.4	97.254	52,925	461.4	97.248	53,123	461.434	97.265
50%	Vmin	76,009	460.3	97.403	76,544	460.3	97.416	76,423	460.4	97.411	76,779	460.3	97.422	76,554	460.364	97.417
75%	Vmin	117,488	458.6	97.149	116,653	458.6	97.117	116,430	458.6	97.110	116,816	458.6	97.116	116,165	458.652	97.105
100%	Vmin	158,860	457.9	96.530	157,917	458	96.518	158,559	457.9	96.511	159,199	457.9	96.520	158,937	457.959	96.551
10%	Vnom	16,063	606.2	93.257	16,008	606.2	93.216	16,100	606.1	93.243	15,991	606.2	93.189	15,877	606.185	93.151
20%	Vnom	35,158	604.6	96.229	34,905	604.6	96.189	34,983	604.6	96.226	34,855	604.7	96.225	35,230	604.704	96.253
30%	Vnom	52,348	606.2	96.904	52,408	606.2	96.902	52,118	606.2	96.901	51,861	606.3	96.894	52,096	606.274	96.911
50%	Vnom	74,747	606.5	97.153	74,814	606.5	97.159	74,998	606.5	97.147	75,235	606.4	97.162	75,682	606.433	97.177
75%	Vnom	117,142	607.8	96.904	116,249	607.9	96.883	116,216	607.9	96.868	116,123	607.9	96.860	116,753	607.9	96.886
100%	Vnom	158,418	606.1	96.491	159,172	606	96.512	157,575	606.1	96.465	157,175	606.2	96.461	157,217	606.192	96.463
10%	Vmax	15,525	752.4	92.308	15,575	752.3	92.348	15,603	752.4	92.392	15,586	752.4	92.359	15,711	752.345	92.429
20%	Vmax	35,354	749.8	95.908	35,235	749.8	95.906	35,079	749.8	95.900	35,192	749.8	95.890	35,239	749.783	95.905
30%	Vmax	51,700	749.4	96.605	51,782	749.4	96.621	52,005	749.4	96.628	51,852	749.4	96.612	51,877	749.424	96.619
50%	Vmax	75,071	750.9	96.901	75,043	750.9	96.886	75,312	750.9	96.906	75,834	750.9	96.915	75,660	750.897	96.908
75%	Vmax	116,035	751.7	96.739	116,182	751.7	96.720	116,641	751.7	96.716	116,916	751.7	96.728	117,191	751.703	96.747
100%	Vmax	159,295	749.6	96.339	158,850	749.7	96.336	156,940	749.7	96.291	156,756	749.7	96.267	157,420	749.689	96.246

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															