Manufacturer: Ingeteam Power Technology

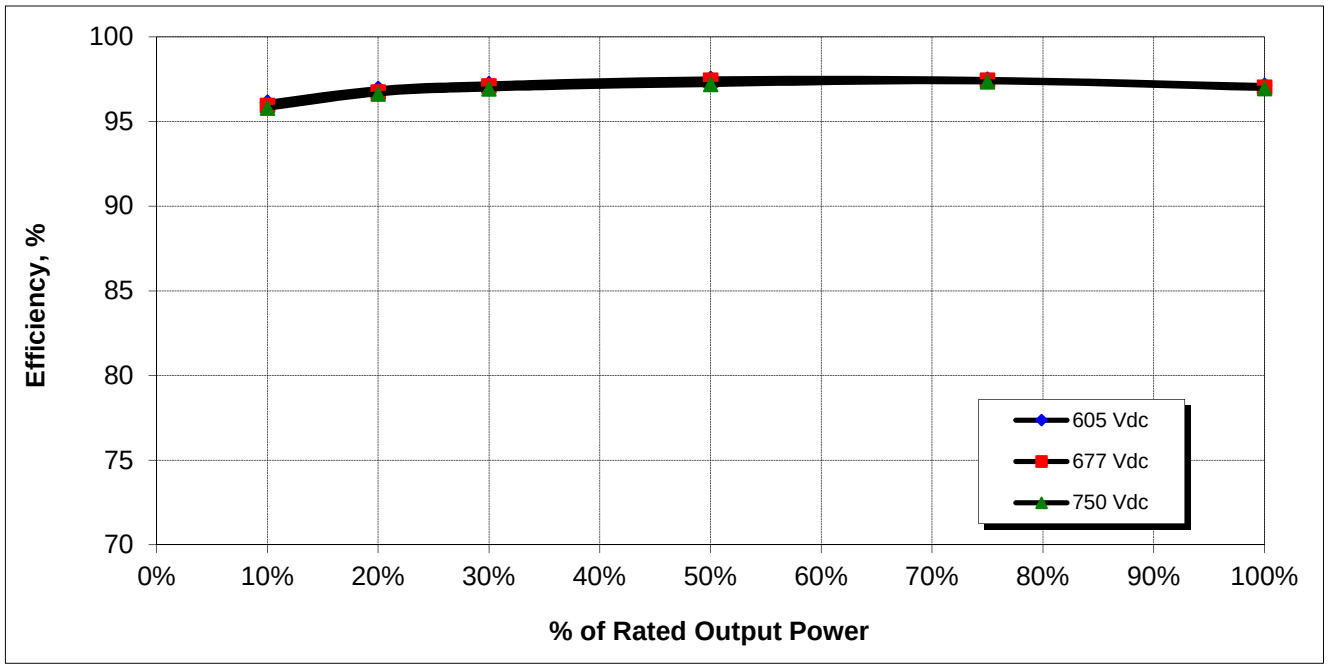
Model #: Ingecon Sun 440TL U X360 Indoor

Rated Maximum Continuous Output Power: 440 kW Night Tare Loss: 60.0 W

Vmin: 605 Vdc Vnom: 677 Vdc Vmax: 750 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		44	88	132	220	330	440	Wtd
Vmin	605	96.1	96.9	97.2	97.5	97.5	97.1	97.4
Vnom	677	95.9	96.7	97.1	97.4	97.4	97.0	97.3
Vmax	750	95.8	96.6	96.9	97.2	97.3	97.0	97.1

CEC Efficiency = 97.5%



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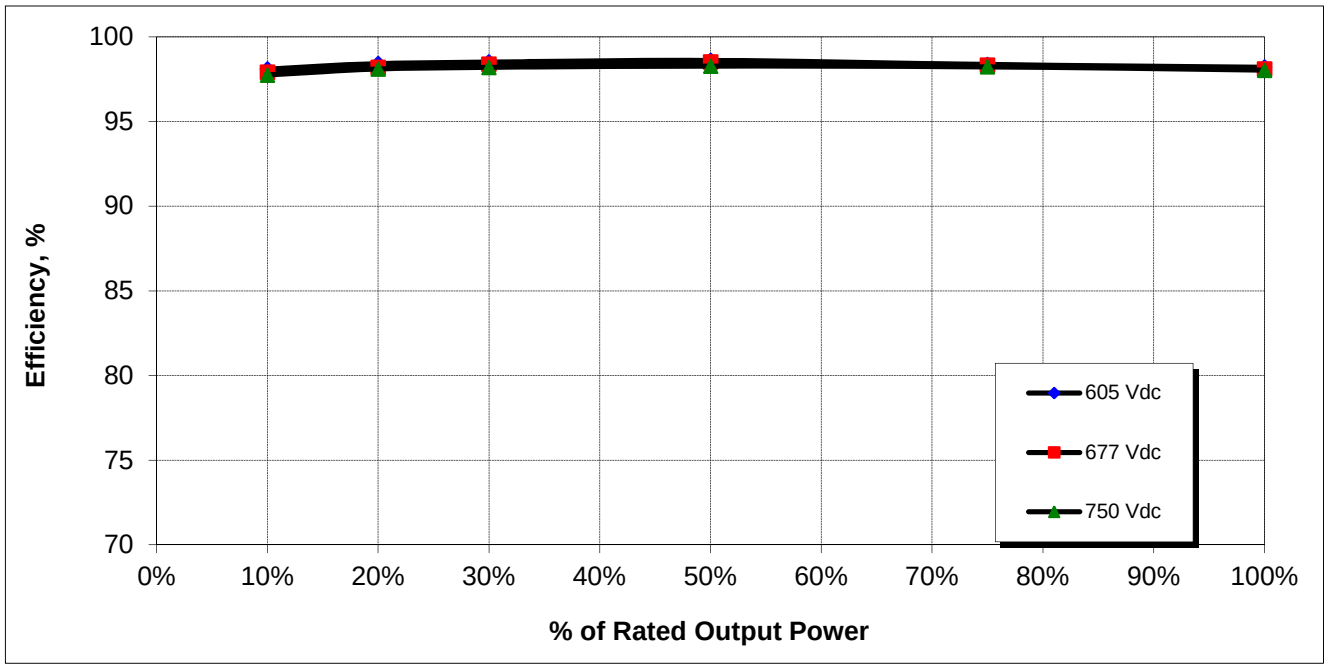
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		44.00	88.00	132.00	220.00	330.00	440.00	Wtd
Vmin	605	98.1	98.4	98.5	98.6	98.4	98.2	98.4
Vnom	677	97.9	98.2	98.4	98.5	98.3	98.1	98.3
Vmax	750	97.7	98.1	98.2	98.3	98.2	98.0	98.2

Inverter Efficiency w/o Transformer= 98.5%



Transformer Efficiency

	Power Level (%; kW)						
	10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)	44.00	88.00	132.00	220.00	330.00	440.00	Wtd
Vmin	98.0	98.5	98.7	98.9	99.1	98.9	98.9
Vnom	98.0	98.5	98.7	98.9	99.1	98.9	98.9
Vmax	98.0	98.5	98.7	98.9	99.1	98.9	98.9

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)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	38.506	551.5	98.092	38.547	551.44	98.089	38.701	551.81	98.089	38.77	551.56	98.109	38.654	551.15	98.103
20%	Vmin	95.97	606.56	98.40	95.50	606.67	98.43	95.80	606.55	98.45	95.90	606.61	98.40	96.08	606.56	98.41
30%	Vmin	140.61	606.39	98.48	140.99	606.48	98.52	141.30	606.34	98.51	141.18	606.40	98.54	140.79	606.38	98.49
50%	Vmin	203.59	608.59	98.55	203.37	608.69	98.59	202.82	608.60	98.64	202.79	608.75	98.61	203.58	608.58	98.64
75%	Vmin	312.41	606.67	98.38	312.92	606.67	98.38	312.48	606.68	98.38	311.42	606.71	98.36	311.89	606.74	98.37
100%	Vmin	420.77	606.40	98.21	421.95	606.46	98.22	421.26	606.42	98.21	419.66	606.48	98.21	419.40	606.39	98.21
10%	Vnom	38.26	650.40	97.88	38.31	650.42	97.77	38.18	650.46	97.95	38.25	650.27	97.97	38.10	650.47	97.95
20%	Vnom	94.76	676.64	98.23	95.23	676.78	98.20	95.25	676.63	98.19	95.12	676.83	98.15	94.80	676.73	98.25
30%	Vnom	140.65	676.70	98.35	140.00	676.61	98.38	140.00	676.59	98.42	140.47	676.51	98.39	140.69	676.62	98.37
50%	Vnom	201.91	678.61	98.52	202.42	678.68	98.53	202.47	678.67	98.54	201.55	678.76	98.48	201.65	678.53	98.51
75%	Vnom	423.52	678.58	98.33	424.55	678.31	98.33	424.14	678.43	98.33	422.54	678.56	98.33	424.20	678.62	98.33
100%	Vnom	423.68	678.54	98.10	423.20	678.45	98.10	422.67	678.36	98.10	424.18	678.52	98.09	424.59	678.35	98.10
10%	Vmax	38.51	750.58	97.69	38.61	750.31	97.73	38.57	750.43	97.66	38.42	750.56	97.81	38.58	750.62	97.85
20%	Vmax	96.71	748.92	98.09	96.90	749.04	98.13	96.52	748.98	98.08	96.55	749.14	98.14	97.21	749.00	98.08
30%	Vmax	141.21	749.24	98.23	141.74	749.12	98.17	142.20	749.13	98.20	142.53	749.13	98.22	141.98	749.17	98.18
50%	Vmax	199.50	751.70	98.27	199.60	751.80	98.26	200.18	751.72	98.26	200.76	751.76	98.28	200.45	751.75	98.28
75%	Vmax	311.15	752.04	98.24	310.18	752.16	98.23	309.59	751.85	98.23	309.86	752.08	98.23	310.99	752.12	98.22
100%	Vmax	423.31	750.62	98.03	422.61	750.60	98.02	421.78	750.18	98.03	423.86	750.28	98.03	425.17	750.31	98.03

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															