Manufacturer: Ingeteam Power Technology

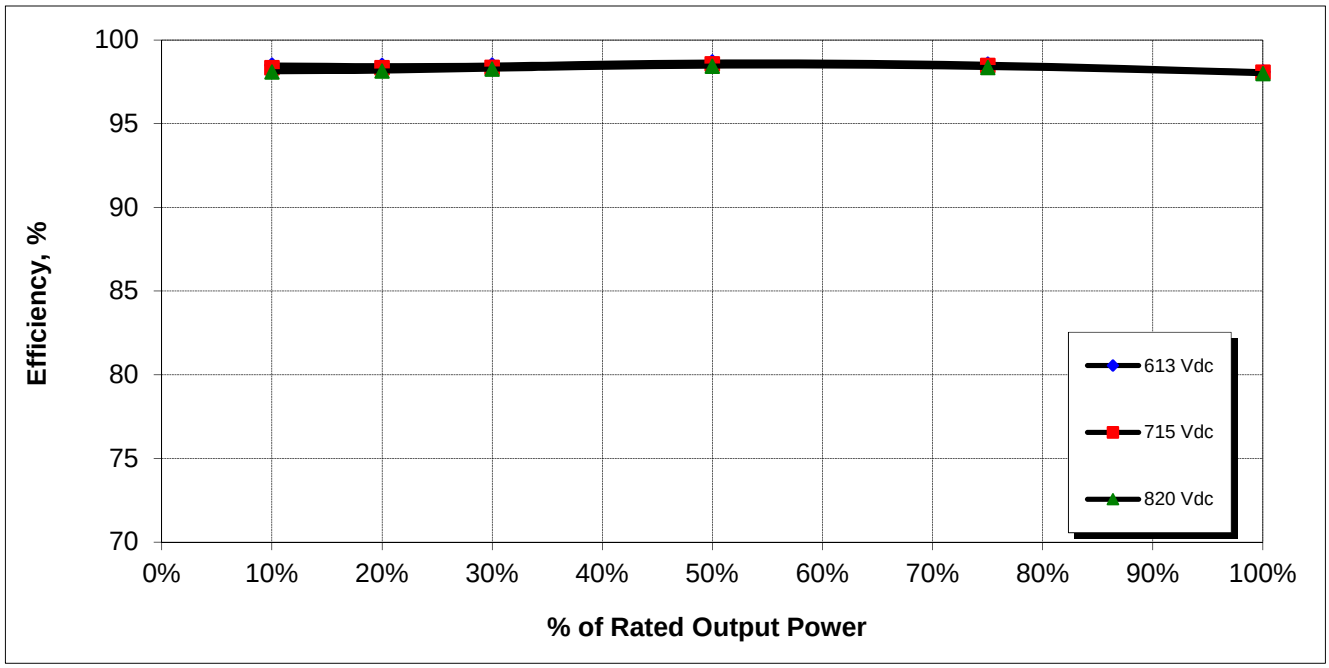
Model #: Ingecon Sun 1070TL U X420 Outdoor

Rated Maximum Continuous Output Power: 1070 kW Night Tare Loss: 120.00 W

Vmin: 613 Vdc Vnom: 715 Vdc Vmax: 820 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		107.00	214.00	321.00	535.00	802.50	1070.00	Wtd
Vmin	613	98.5	98.5	98.5	98.7	98.6	98.1	98.5
Vnom	715	98.3	98.3	98.4	98.6	98.5	98.1	98.4
Vmax	820	98.1	98.1	98.3	98.4	98.4	98.0	98.3

CEC Efficiency = 98.5%



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	102.392	616.5	98.518	101.918	616.63	98.490	101.704	616.46	98.491	101.072	614.59	98.501	101.891	614.41	98.489
20%	Vmin	217.684	615.82	98.463	218.138	615.97	98.468	218.888	615.82	98.459	218.382	615.98	98.468	219.573	615.73	98.470
30%	Vmin	326.89	615.05	98.494	327.735	615.1	98.495	327.116	615.28	98.506	328.288	614.97	98.492	327.899	615.29	98.496
50%	Vmin	570.67	615.82	98.684	573.846	615.42	98.677	575.471	615.51	98.683	574.408	615.56	98.683	571.821	613.84	98.680
75%	Vmin	760.216	613.84	98.552	759.639	613.6	98.553	755.269	614.49	98.558	759.908	613.53	98.548	756.98	613.96	98.569
100%	Vmin	1016.25	615.65	98.093	1043.98	618.07	98.087	1056.79	617.04	98.096	1048.71	615.57	98.089	1023.14	615.19	98.100
10%	Vnom	106.546	713.69	98.339	106.864	713.51	98.353	106.917	713.6	98.353	106.592	713.51	98.309	106.075	713.62	98.372
20%	Vnom	225.969	716.98	98.337	226.038	716.94	98.329	226.365	716.95	98.328	225.272	716.96	98.334	225.594	716.97	98.332
30%	Vnom	339.79	716.32	98.361	339.299	716.41	98.364	339.427	716.35	98.354	339.784	716.22	98.366	339.177	716.19	98.363
50%	Vnom	581.607	715.14	98.564	586.559	714.55	98.576	584.562	714.85	98.567	584.127	714.61	98.577	583.892	714.81	98.573
75%	Vnom	767.297	715.6	98.474	766.855	715.15	98.466	763.419	715.51	98.470	762.183	715.44	98.473	762.815	715.79	98.458
100%	Vnom	1028.15	713.3	98.082	1027.61	712.88	98.050	1029.15	713.42	98.084	1029.5	713.25	98.079	1030	713.78	98.066
10%	Vmax	105.048	824.39	98.078	104.803	820.14	98.111	105.019	820.19	98.110	104.878	820.21	98.072	104.524	820.12	98.124
20%	Vmax	221.188	823.99	98.130	221.109	823.87	98.156	220.435	824.03	98.139	219.98	823.74	98.133	219.358	823.94	98.157
30%	Vmax	334.221	823.3	98.248	334.266	823.3	98.272	334.525	823.23	98.272	333.776	823.36	98.277	332.647	823.22	98.206
50%	Vmax	573.675	822.35	98.445	573.419	822.02	98.458	573.551	822.28	98.457	576.742	822.27	98.418	576.644	822.3	98.407
75%	Vmax	759.194	820.94	98.363	757.883	820.73	98.364	755.161	820.89	98.367	754.333	821.17	98.371	754.97	820.91	98.347
100%	Vmax	1026.71	819.71	98.003	1026.76	819.02	98.002	1025.48	819.14	97.974	1027.23	819.31	97.994	1025.71	818.47	97.983

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															