Manufacturer: **Ingeteam S.A.**

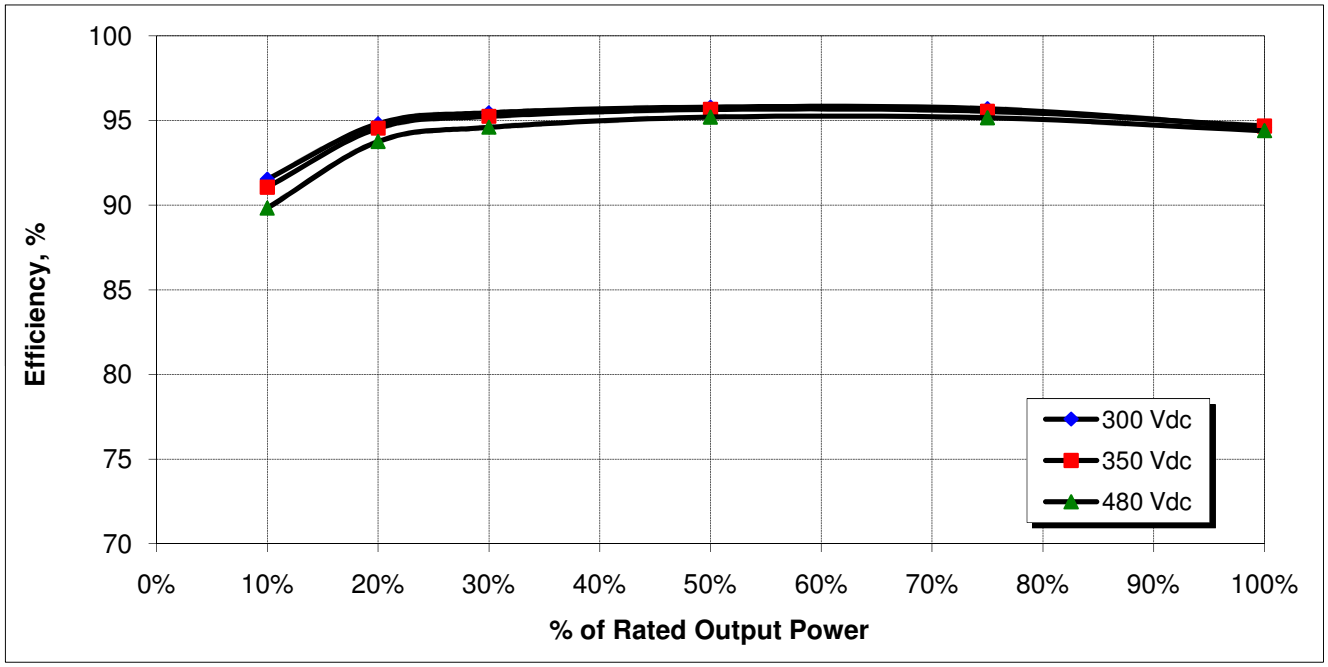
Model #: **INGECON SUN 100UP-208V**

Rated Maximum Continuous Output Power @25°C: 100.0 kW Night Tare Loss: 1.0 W
Rated Maximum Continuous Output Power @40°C: 100.0 kW Night Tare Loss: 1.0 W

Vmin: 300 Vdc Vnom: 350 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		10.00	20.00	30.00	50.00	75.00	100.00	Wtd
Vmin	300	91.5	94.8	95.4	95.8	95.7	94.6	95.41
Vnom	350	91.1	94.5	95.2	95.7	95.5	94.7	95.26
Vmax	480	89.8	93.8	94.6	95.2	95.2	94.4	94.78

CEC Efficiency = 95.0%



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	9797.22	304.20	91.53	9790.19	304.13	91.52	9801.31	304.11	91.46	9812.82	304.13	91.60	9804.66	304.12	91.56
20%	Vmin	21862.13	305.83	94.82	21881.37	305.79	94.82	21902.07	305.83	94.80	21860.70	305.76	94.81	21888.63	305.80	94.79
30%	Vmin	32204.70	305.62	95.44	32244.23	305.56	95.47	32192.30	305.58	95.45	32176.63	305.55	95.44	32163.50	305.56	95.44
50%	Vmin	54649.77	304.91	95.81	54621.77	304.90	95.78	54584.73	304.98	95.78	54687.00	304.99	95.78	54750.40	304.90	95.78
75%	Vmin	70950.17	304.93	95.69	71092.73	304.88	95.71	71147.57	304.86	95.69	70946.60	304.84	95.70	71030.30	304.78	95.69
100%	Vmin	95025.60	304.36	94.55	95146.67	304.41	94.57	95207.43	304.37	94.56	95272.53	304.30	94.57	95235.53	304.20	94.59
10%	Vnom	9784.85	349.95	91.06	9766.87	349.91	90.97	9792.51	349.91	91.08	9787.39	349.88	91.03	9789.25	349.84	91.12
20%	Vnom	21889.30	350.11	94.55	21890.67	350.11	94.52	21866.87	350.12	94.58	21895.37	350.09	94.54	21899.27	350.10	94.55
30%	Vnom	32013.10	350.09	95.25	32056.13	350.07	95.21	32086.67	350.02	95.23	32065.27	350.02	95.22	32081.83	349.95	95.30
50%	Vnom	54688.03	349.35	95.66	54618.20	349.35	95.68	54625.80	349.31	95.65	54636.00	349.33	95.64	54675.67	349.33	95.65
75%	Vnom	70920.87	349.91	95.55	70808.77	349.86	95.56	70729.43	349.85	95.56	70802.00	349.84	95.53	70800.23	349.84	95.57
100%	Vnom	95396.93	349.27	94.64	95420.73	349.19	94.66	95381.17	349.29	94.67	95185.37	349.28	94.67	95446.03	349.27	94.66
10%	Vmax	9846.01	478.96	89.84	9867.06	478.90	89.87	9857.02	478.88	89.67	9860.59	478.81	89.85	9850.53	478.79	89.80
20%	Vmax	21867.33	480.53	93.78	21840.93	480.53	93.71	21818.03	480.49	93.76	21824.63	480.54	93.78	21823.60	480.54	93.78
30%	Vmax	31914.53	480.59	94.66	31927.77	480.57	94.56	31955.67	480.58	94.57	31908.90	480.55	94.64	31994.07	480.53	94.62
50%	Vmax	54665.90	480.65	95.20	54740.63	480.58	95.23	54720.27	480.58	95.18	54805.20	480.59	95.20	54790.87	480.51	95.20
75%	Vmax	71160.97	482.19	95.20	70804.57	482.16	95.17	70262.30	482.06	95.19	70189.83	482.10	95.18	70166.03	482.05	95.14
100%	Vmax	95270.50	480.39	94.39	95268.37	480.35	94.39	95308.87	480.37	94.40	95226.63	480.30	94.40	95262.63	480.21	94.38

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	9801.64	304.13	91.52	9788.06	304.10	91.51									
20%	Vmin	21873.97	305.78	94.75	21917.50	305.79	94.82									
30%	Vmin	32229.47	305.57	95.44	32182.97	305.55	95.47									
50%	Vmin	54730.53	304.88	95.80	54608.90	304.93	95.76									
75%	Vmin	71030.17	304.83	95.69	71082.77	304.91	95.68									
100%	Vmin	95081.90	304.18	94.57	95156.33	304.27	94.59									
10%	Vnom	9785.77	349.83	91.01	9778.61	349.82	91.16									
20%	Vnom	21929.40	350.10	94.54	21894.23	350.10	94.55									
30%	Vnom	32109.87	349.97	95.25	32156.50	349.96	95.25									
50%	Vnom	54695.87	349.31	95.64	54666.67	349.28	95.65									
75%	Vnom	70886.20	349.92	95.55	70802.17	349.78	95.52									
100%	Vnom	95405.20	349.31	94.68	95430.63	349.26	94.68									
10%	Vmax	9859.70	478.77	89.94	9848.74	478.73	89.81									
20%	Vmax	21815.97	480.48	93.70	21788.50	480.50	93.79									
30%	Vmax	31979.13	480.51	94.57	31962.83	480.51	94.55									
50%	Vmax	54852.97	480.50	95.18	54789.23	480.50	95.18									
75%	Vmax	70240.63	482.08	95.13	70371.80	482.15	95.12									
100%	Vmax	95204.63	480.35	94.41	95413.33	480.21	94.39									