Manufacturer: **Ingeteam S.A.**

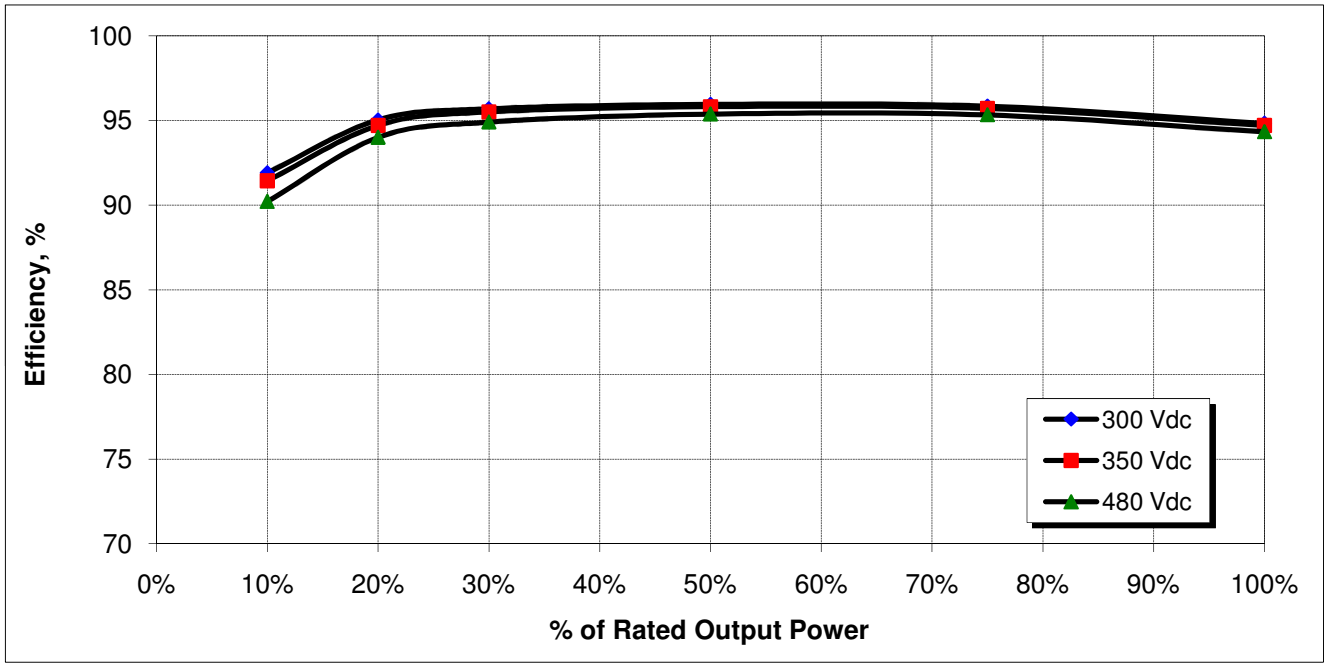
Model #: **INGECON SUN 100UP-480V**

Rated Maximum Continuous Output Power @25°C: 100.0 kW Night Tare Loss: 2.0 W
Rated Maximum Continuous Output Power @40°C: 100.0 kW Night Tare Loss: 2.0 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	91.9	95.0	95.7	96.0	95.8	94.8	95.60
Vnom	350	91.4	94.7	95.5	95.8	95.7	94.7	95.43
Vmax	480	90.2	94.0	94.9	95.4	95.3	94.3	94.97

CEC Efficiency = 95.5%



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)	(%)	(W)	(Vdc)	(%)
10%	Vmin	9793.86	305.69	91.83	9797.89	305.63	91.93	9818.91	305.63	91.90	9828.26	305.61	91.98	9796.01	305.62	91.97
20%	Vmin	21547.73	305.31	94.98	21553.30	305.32	95.03	21546.37	305.35	95.04	21566.90	305.32	95.04	21562.43	305.34	95.01
30%	Vmin	32325.23	305.25	95.70	32267.17	305.23	95.71	32258.20	305.22	95.67	32207.57	305.23	95.68	32281.43	305.18	95.67
50%	Vmin	54506.70	304.64	95.98	54626.30	304.65	95.95	54558.53	304.62	95.97	54580.43	304.60	95.92	54517.63	304.61	95.94
75%	Vmin	70599.67	304.45	95.87	70517.83	304.37	95.85	70546.33	304.44	95.84	70757.30	304.42	95.84	70696.87	304.38	95.84
100%	Vmin	95435.67	304.47	94.81	95228.53	304.50	94.81	95163.27	304.39	94.83	95250.63	304.46	94.82	95175.73	304.47	94.83
10%	Vnom	9788.60	349.91	91.45	9775.09	349.90	91.45	9784.30	349.92	91.46	9748.39	349.90	91.53	9760.89	349.82	91.30
20%	Vnom	21576.70	351.25	94.70	21578.67	351.27	94.67	21636.67	351.20	94.68	21657.50	351.25	94.78	21618.03	351.28	94.66
30%	Vnom	32228.40	351.08	95.54	32180.97	351.06	95.47	32207.50	351.06	95.50	32233.83	351.03	95.52	32303.43	351.10	95.50
50%	Vnom	54219.47	349.23	95.80	54440.43	349.23	95.82	54581.43	349.25	95.83	54584.73	349.30	95.81	54625.17	349.17	95.80
75%	Vnom	70644.23	350.71	95.72	70574.57	350.75	95.73	70548.27	350.56	95.71	70508.83	350.72	95.72	70546.87	350.64	95.70
100%	Vnom	95392.97	349.22	94.69	95448.20	349.21	94.70	95494.20	349.26	94.70	95418.63	349.23	94.71	95650.40	349.15	94.71
10%	Vmax	9857.02	480.13	90.04	9847.29	480.16	90.21	9845.06	480.15	90.16	9844.68	480.15	90.30	9863.51	480.16	90.31
20%	Vmax	21683.23	481.49	94.04	21652.33	481.51	93.99	21707.13	481.47	93.98	21589.37	481.47	93.96	21675.33	481.49	94.05
30%	Vmax	32377.83	480.20	94.98	32048.00	480.24	94.84	32225.17	480.25	94.90	32118.73	480.27	94.96	32249.17	480.28	94.96
50%	Vmax	54282.77	480.08	95.40	54348.47	480.11	95.40	54446.37	480.07	95.37	54445.00	480.05	95.39	54442.13	479.98	95.38
75%	Vmax	70928.33	480.39	95.33	70552.03	480.37	95.35	70659.63	480.36	95.36	70837.00	480.42	95.34	70556.97	480.29	95.33
100%	Vmax	95465.53	480.36	94.32	95370.27	480.37	94.34	95590.53	480.40	94.34	95560.13	480.41	94.32	95640.90	480.23	94.32

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	9792.79	305.57	91.93	9810.91	305.60	91.80									
20%	Vmin	21608.13	305.36	95.07	21537.53	305.37	95.01									
30%	Vmin	32287.60	305.11	95.70	32301.77	305.14	95.69									
50%	Vmin	54721.17	304.59	95.95	54710.23	304.63	95.95									
75%	Vmin	70496.77	304.32	95.83	70558.07	304.48	95.83									
100%	Vmin	95358.33	304.33	94.84	95308.10	304.21	94.84									
10%	Vnom	9784.57	349.83	91.44	9775.03	349.85	91.43									
20%	Vnom	21619.40	351.24	94.73	21610.70	351.24	94.71									
30%	Vnom	32309.27	350.96	95.51	32301.60	350.97	95.48									
50%	Vnom	54545.77	349.20	95.80	54536.70	349.22	95.81									
75%	Vnom	70836.53	350.65	95.70	70696.20	350.62	95.69									
100%	Vnom	95363.83	349.19	94.70	95461.87	349.14	94.71									
10%	Vmax	9861.15	480.15	90.21	9864.02	480.17	90.31									
20%	Vmax	21645.87	481.51	94.04	21654.37	481.53	93.97									
30%	Vmax	32142.30	480.24	94.87	32259.17	480.30	94.84									
50%	Vmax	54624.97	479.99	95.36	54520.83	480.02	95.37									
75%	Vmax	70663.73	480.43	95.32	70511.73	480.30	95.29									
100%	Vmax	95472.50	480.29	94.33	95202.60	480.37	94.34									