Manufacturer: **Ingeteam S.A.**

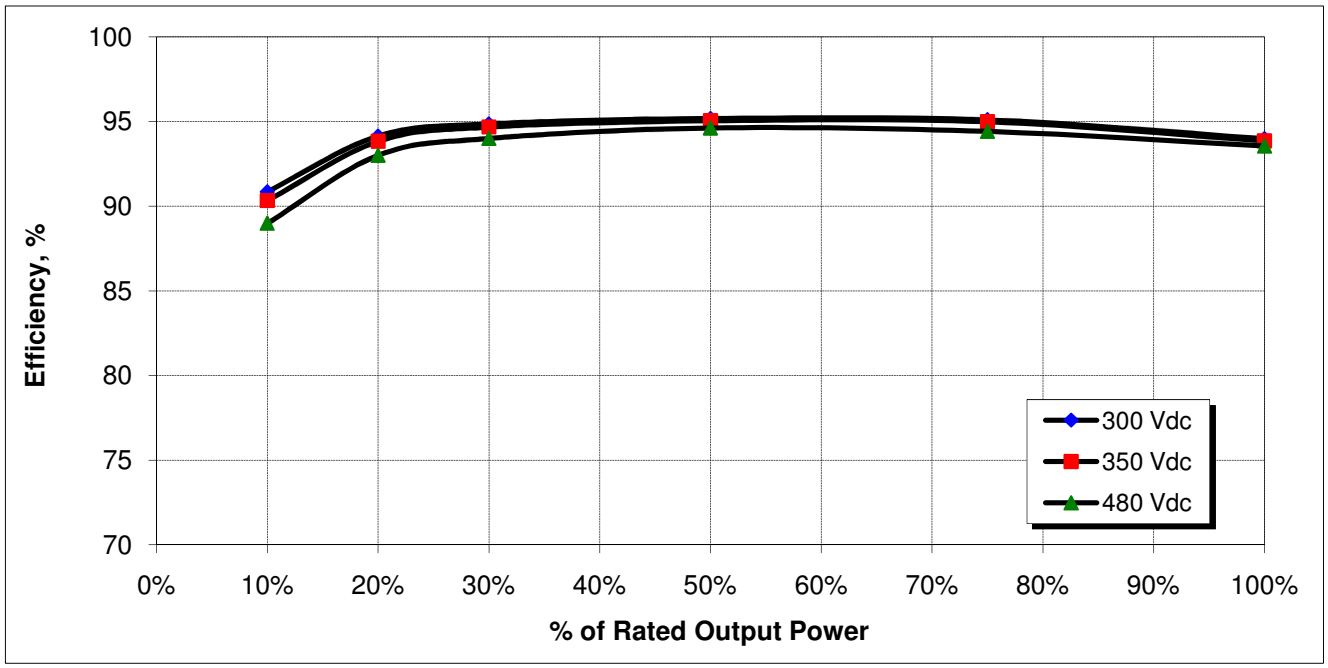
Model #: **INGECON SUN 100U 480V**

Rated Maximum Continuous Output Power: 100.0 kW Night Tare Loss: 3 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	90.9	94.1	94.9	95.2	95.1	94.0	94.8
Vnom	350	90.3	93.8	94.7	95.0	95.0	93.9	94.7
Vmax	480	89.0	93.0	94.0	94.6	94.4	93.5	94.1

CEC Efficiency = 94.5%



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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	9847.03	305.33	90.87	9852.57	305.34	90.87	9856.97	305.36	90.84	9852.00	305.36	90.81	9855.37	305.38	90.88
20%	Vmin	21802.50	305.10	94.15	21792.17	305.10	94.15	21815.73	305.13	94.12	21817.63	305.12	94.13	21805.47	305.13	94.15
30%	Vmin	32427.23	304.46	94.84	32441.20	304.47	94.85	32446.43	304.45	94.84	32462.27	304.45	94.86	32433.03	304.43	94.87
50%	Vmin	54816.73	305.03	95.17	54915.93	305.03	95.21	54931.63	305.05	95.18	54927.90	305.06	95.17	54939.57	305.08	95.20
75%	Vmin	70480.50	305.53	95.11	70306.33	305.57	95.10	70122.60	305.56	95.11	70128.63	305.61	95.08	70119.67	305.65	95.09
100%	Vmin	95245.63	303.15	94.00	95246.73	303.17	93.97	95322.60	303.16	93.97	95306.80	303.11	93.97	95275.70	303.11	93.98
10%	Vnom	9810.93	347.08	90.34	9811.37	347.06	90.30	9816.17	347.06	90.29	9819.53	347.02	90.37	9809.93	346.99	90.38
20%	Vnom	21792.70	347.73	93.82	21800.27	347.74	93.85	21809.73	347.75	93.84	21808.73	347.75	93.83	21810.37	347.78	93.79
30%	Vnom	32156.67	348.14	94.67	32366.53	348.13	94.68	32370.03	348.10	94.69	32380.63	348.09	94.66	32384.83	348.04	94.66
50%	Vnom	54918.50	348.00	95.07	54909.33	347.94	95.05	54898.20	347.93	95.05	54936.97	347.90	95.07	54968.13	347.87	95.04
75%	Vnom	70326.83	347.68	95.01	70284.80	347.69	94.99	70331.97	347.64	95.00	70297.93	347.59	94.98	70322.50	347.58	94.97
100%	Vnom	95151.03	345.37	93.85	95114.70	345.41	93.85	95135.00	345.39	93.85	95140.77	345.34	93.86	95134.10	346.28	93.88
10%	Vmax	9957.87	483.23	88.99	9966.87	483.22	88.97	9957.67	483.25	88.86	9960.33	483.26	89.03	9962.43	480.36	89.04
20%	Vmax	21819.67	481.16	93.05	21811.73	481.18	92.95	21806.47	481.18	92.99	21803.43	481.18	92.92	21809.27	481.19	93.07
30%	Vmax	32189.70	482.70	94.01	32184.07	481.26	94.01	32223.47	481.28	93.95	32205.43	480.24	93.97	32206.27	481.32	93.98
50%	Vmax	54816.30	481.43	94.67	54816.60	480.46	94.60	54804.97	480.50	94.60	54824.80	480.49	94.59	54850.60	480.47	94.61
75%	Vmax	70296.93	480.16	94.35	70315.87	480.19	94.62	70297.03	480.21	94.63	70329.53	480.24	94.62	70308.70	480.27	94.57
100%	Vmax	95309.33	480.98	93.56	95273.97	480.97	93.55	95338.97	481.00	93.54	95338.60	481.07	93.54	95335.40	481.02	93.55

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	9861.73	305.36	90.85	9858.00	305.35	90.85									
20%	Vmin	21802.93	305.12	94.15	21805.50	305.12	94.11									
30%	Vmin	32447.80	304.41	94.83	32466.53	304.41	94.89									
50%	Vmin	54914.87	305.08	95.15	54943.77	305.11	95.14									
75%	Vmin	70131.33	305.70	95.09	70136.40	305.69	95.07									
100%	Vmin	95278.47	303.07	93.98	95286.47	303.03	93.99									
10%	Vnom	9812.00	346.97	90.33	9819.40	346.93	90.31									
20%	Vnom	21806.10	347.80	93.86	21815.07	347.82	93.84									
30%	Vnom	32388.30	347.93	94.70	32377.00	347.85	94.69									
50%	Vnom	54958.07	347.90	95.03	54959.90	347.96	95.04									
75%	Vnom	70316.07	347.56	94.98	70316.47	347.52	94.98									
100%	Vnom	95165.17	346.80	93.88	95092.07	346.80	93.87									
10%	Vmax	9964.17	480.38	89.01	9974.77	480.37	89.03									
20%	Vmax	21823.90	481.19	93.00	21803.00	481.20	92.98									
30%	Vmax	32204.93	481.32	94.02	32207.13	481.35	94.02									
50%	Vmax	54829.57	480.46	94.60	54826.23	480.48	94.62									
75%	Vmax	70321.13	480.30	94.58	70053.20	480.22	93.49									
100%	Vmax	95324.87	481.03	93.53	95354.93	481.07	93.54									