Manufacturer: KACO new energy GmbH

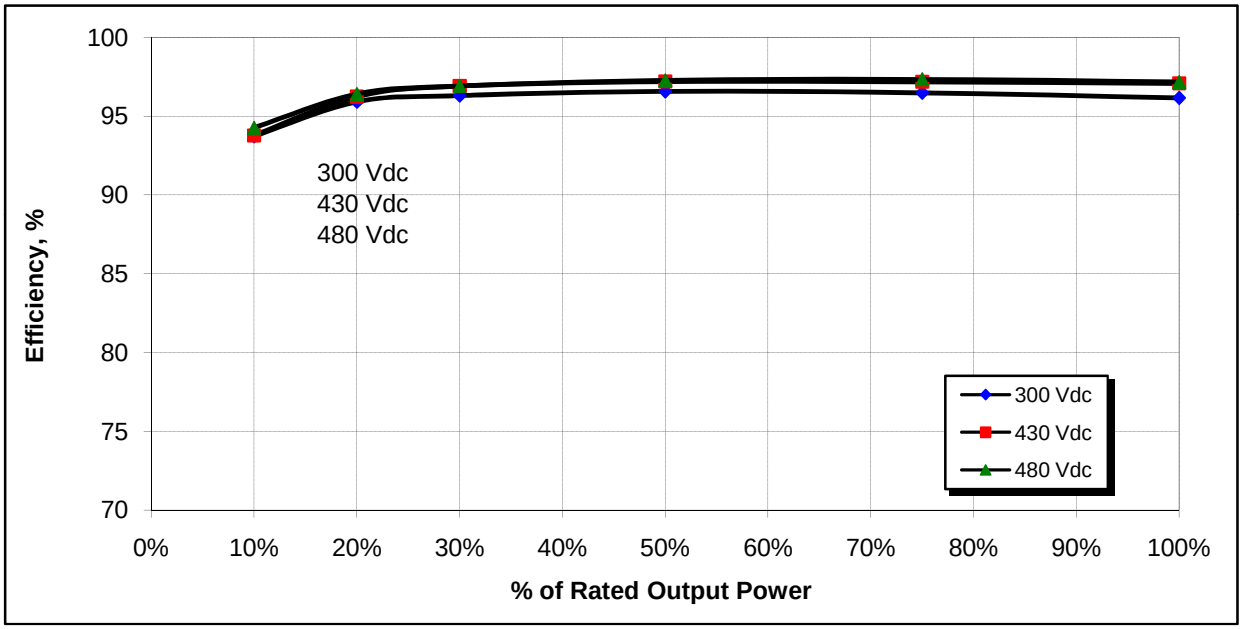
Model #: XP10U-H4

Rated Maximum Continuous Output Power: 9.99 kW Night Tare Loss: -1.59 W

Vmin: 300 Vdc Vnom: 430 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		1.00	2.00	3.00	4.99	7.49	9.99	Wtd
Vmin	300	93.7	95.9	96.3	96.6	96.5	96.2	96.3
Vnom	430	93.8	96.2	96.9	97.2	97.2	97.1	97.0
Vmax	480	94.3	96.4	96.9	97.3	97.3	97.2	97.1

CEC Efficiency = 97.0%



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)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	0.9224	301.56	93.849	0.924	301.62	94.119	0.917	301.52	93.337	0.921	301.13	93.907	0.916	301.07	93.412
20%	Vmin	2.11	302.15	96.115	2.1	302.27	95.855	2.11	302.37	95.943	2.1	302.21	95.619	2.11	302.13	96.028
30%	Vmin	3.17	302.66	96.288	3.17	302.73	96.301	3.17	302.73	96.458	3.16	302.81	96.228	3.17	302.82	96.253
50%	Vmin	5.4	303.08	96.501	5.4	303.02	96.555	5.41	303.04	96.694	5.4	303.13	96.545	5.41	303.08	96.592
75%	Vmin	6.95	302.94	96.464	6.94	302.91	96.433	6.95	302.92	96.466	6.95	302.9	96.464	6.96	302.92	96.614
100%	Vmin	9.33	303.88	96.137	9.33	303.82	96.163	9.33	303.88	96.109	9.33	303.87	96.177	9.34	303.85	96.213
10%	Vnom	0.9274	443.6	93.682	0.93	443.25	93.966	0.92	443.49	92.867	0.932	443.4	94.130	0.934	443.64	94.292
20%	Vnom	2.11	443.66	96.009	2.11	443.56	96.254	2.11	443.64	96.405	2.11	443.7	96.368	2.11	443.58	96.203
30%	Vnom	3.19	443.78	97.003	3.19	443.91	96.907	3.19	443.99	96.927	3.19	443.98	96.920	3.19	443.87	96.871
50%	Vnom	5.44	444.21	97.161	5.44	443.95	97.273	5.44	443.93	97.195	5.44	444.1	97.204	5.44	444.14	97.196
75%	Vnom	7.01	444.21	97.173	7.01	444.06	97.158	7.01	444.07	97.219	7.01	444.05	97.202	7.01	444.07	97.207
100%	Vnom	9.43	444.02	97.123	9.43	444.22	97.072	9.42	444.17	97.058	9.43	444.07	97.104	9.43	443.96	97.091
10%	Vmax	0.9326	481.31	94.310	0.939	481.1	94.972	0.928	481.21	93.776	0.931	481.2	94.226	0.93	481.56	94.052
20%	Vmax	2.11	480.89	96.369	2.11	481.1	96.532	2.12	481.02	96.672	2.11	480.95	96.447	2.1	480.9	96.006
30%	Vmax	3.19	481.56	96.854	3.19	481.22	96.870	3.2	481.24	97.020	3.19	481.28	96.827	3.2	481.35	97.032
50%	Vmax	5.44	482.02	97.268	5.44	482	97.295	5.44	482.29	97.283	5.44	482.24	97.244	5.44	482.29	97.293
75%	Vmax	7.04	481.52	97.403	7.03	481.34	97.333	7.03	481.64	97.366	7.03	481.54	97.328	7.03	481.7	97.308
100%	Vmax	9.71	482.09	97.173	9.72	482.25	97.216	9.71	482.14	97.183	9.71	482.39	97.135	9.71	482.42	97.182

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															