Manufacturer: Kaco new energy GmbH

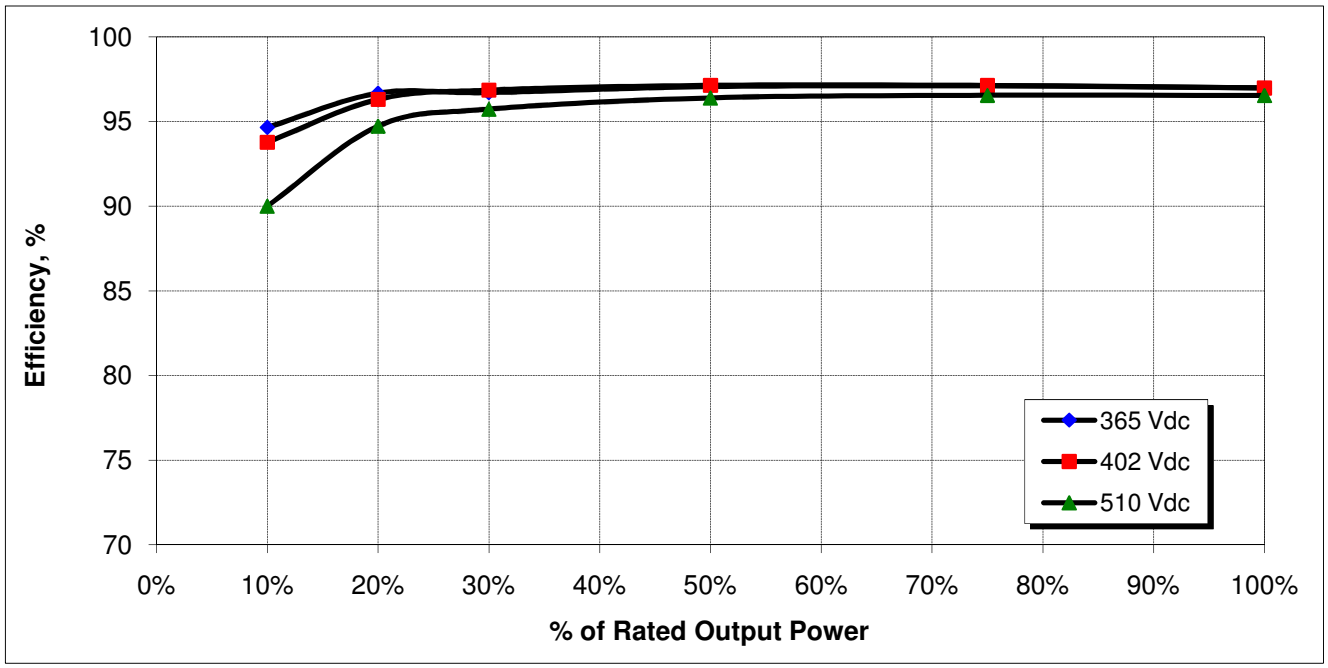
Model #: blueplanet 6400xi supreme (Vac: 240 V)

Rated Maximum Continuous Output Power: 6.40 kW Night Tare Loss: 0.45 W

Vmin: 365 Vdc Vnom: 402 Vdc Vmax: 510 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.64	1.28	1.92	3.20	4.80	6.40	Wtd
Vmin	365	94.6	96.7	96.7	97.1	97.1	97.0	96.9
Vnom	402	93.8	96.3	96.9	97.1	97.1	97.0	96.9
Vmax	510	90.0	94.7	95.7	96.4	96.5	96.5	96.1

CEC Efficiency = 96.5%



Tested by test engineer: Martin Hessenmüller

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	0.63	365	94.633	0.63	365	94.682	0.631	365	94.601	0.63	365	94.653	0.632	365	94.660
20%	Vmin	1.386	365	96.711	1.386	365	96.625	1.386	365	96.673	1.385	365	96.632	1.387	365	96.689
30%	Vmin	2.057	365	96.714	2.055	365	96.691	2.056	365	96.689	2.055	365	96.697	2.057	365	96.715
50%	Vmin	3.502	365	97.062	3.5	365	97.065	3.499	365	97.042	3.502	365	97.056	3.501	365	97.045
75%	Vmin	4.504	365	97.095	4.502	365	97.095	4.502	365	97.097	4.5	365	97.095	4.502	365	97.089
100%	Vmin	6.103	365	96.983	6.103	365	96.982	6.107	365	96.992	6.106	365	96.979	6.106	365	96.981
10%	Vnom	0.622	402	93.841	0.62	402	93.774	0.621	402	93.865	0.62	402	93.662	0.622	402	93.732
20%	Vnom	1.372	402	96.270	1.371	402	96.319	1.371	402	96.306	1.37	402	96.309	1.372	402	96.310
30%	Vnom	2.063	402	96.851	2.063	402	96.841	2.063	402	96.881	2.06	402	96.883	2.062	402	96.817
50%	Vnom	3.502	402	97.140	3.506	402	97.144	3.504	402	97.131	3.508	402	97.132	3.505	402	97.129
75%	Vnom	4.515	402	97.120	4.514	402	97.125	4.512	402	97.126	4.513	402	97.139	4.513	402	97.153
100%	Vnom	6.108	402	96.994	6.108	402	96.930	6.107	402	96.992	6.108	402	96.986	6.107	402	96.995
10%	Vmax	0.624	510	89.967	0.625	510	90.019	0.626	510	90.117	0.621	510	89.902	0.624	510	89.968
20%	Vmax	1.383	510	94.706	1.382	510	94.726	1.383	510	94.688	1.385	510	94.713	1.384	510	94.753
30%	Vmax	2.064	510	95.736	2.052	510	95.721	2.051	510	95.726	2.055	510	95.716	2.056	510	95.727
50%	Vmax	3.496	510	96.399	3.496	510	96.404	3.492	510	96.388	3.49	510	96.377	3.495	510	96.374
75%	Vmax	4.511	510	96.551	4.513	510	96.553	4.5	510	96.542	4.499	510	96.543	4.494	510	96.547
100%	Vmax	6.09	510	96.532	6.091	510	96.530	6.87	510	96.537	6.103	510	96.532	6.114	510	96.538

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															
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															