Manufacturer: KACO new energy

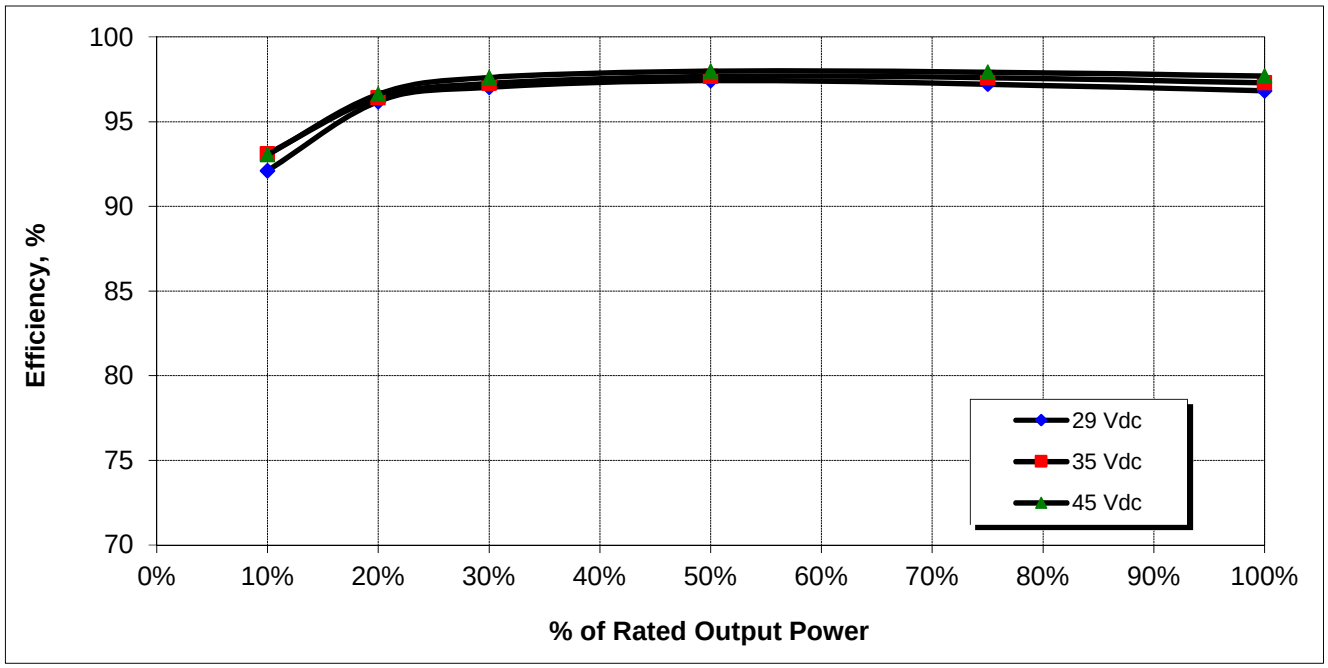
Model #: blueplanet Ultraverter 250 firmware Unique Identifier B7319E78

Rated Maximum Continuous Output Power: 0.25 kW Night Tare Loss: N/A W

Vmin: 29 Vdc Vnom: 35 Vdc Vmax: 45 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.03	0.05	0.08	0.13	0.19	0.25	Wtd
Vmin	29	92.1	96.2	97.0	97.4	97.2	96.8	97.0
Vnom	35	93.1	96.4	97.3	97.7	97.6	97.3	97.3
Vmax	45	93.0	96.6	97.6	98.0	97.9	97.7	97.6

CEC Efficiency = 97.5%



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	0.022	29.052	91.730	0.022	29.051	91.291	0.023	29.05	92.457	0.022	29.051	91.680	0.023	29.051	92.573
20%	Vmin	0.051	29.031	96.194	0.051	29.031	96.208	0.051	29.031	96.202	0.051	29.031	96.199	0.051	29.031	96.203
30%	Vmin	0.0755	29.005	97.060	0.076	29.004	97.070	0.076	29.004	97.072	0.076	29.004	97.073	0.076	29.004	97.067
50%	Vmin	0.1258	28.955	97.432	0.126	28.955	97.418	0.126	28.956	97.434	0.126	28.955	97.431	0.126	28.955	97.432
75%	Vmin	0.1885	28.746	97.234	0.188	28.746	97.230	0.188	28.746	97.123	0.188	28.746	97.228	0.188	28.746	97.227
100%	Vmin	0.2512	28.875	96.767	0.251	28.873	96.838	0.251	28.872	96.835	0.251	28.871	96.833	0.251	28.871	96.833
10%	Vnom	0.0232	35.045	93.000	0.023	35.045	93.047	0.023	35.046	93.066	0.023	35.048	93.131	0.023	35.048	93.135
20%	Vnom	0.0502	35.022	96.427	0.05	35.021	96.430	0.05	35.022	96.429	0.05	35.022	96.411	0.05	35.023	96.404
30%	Vnom	0.0763	34.998	97.291	0.076	34.998	97.283	0.076	34.999	97.295	0.076	34.998	97.062	0.076	34.998	97.291
50%	Vnom	0.1268	34.928	97.673	0.127	34.928	97.673	0.127	34.927	97.672	0.127	34.927	97.673	0.127	34.927	97.675
75%	Vnom	0.1883	35.009	97.507	0.188	35.009	97.621	0.188	35.009	97.614	0.188	35.01	97.616	0.188	35.009	97.616
100%	Vnom	0.2523	34.926	97.298	0.252	34.926	97.294	0.252	34.926	97.295	0.252	34.927	97.292	0.252	34.926	97.293
10%	Vmax	0.024	45.062	92.337	0.024	45.062	92.351	0.024	45.063	93.355	0.025	45.062	93.622	0.025	45.063	93.637
20%	Vmax	0.0511	45.025	96.698	0.051	45.024	96.679	0.051	45.025	96.671	0.051	45.025	96.672	0.051	45.025	96.271
30%	Vmax	0.0759	45.012	97.624	0.076	45.012	97.614	0.076	45.012	97.612	0.076	45.013	97.607	0.076	45.013	97.608
50%	Vmax	0.1262	44.985	97.988	0.126	44.986	97.984	0.126	44.986	97.985	0.126	44.986	97.982	0.127	44.986	97.988
75%	Vmax	0.1872	44.898	97.938	0.187	44.9	97.831	0.187	44.901	97.943	0.187	44.901	97.944	0.187	44.902	97.940
100%	Vmax	0.2528	44.965	97.720	0.253	44.966	97.721	0.253	44.965	97.722	0.253	44.965	97.720	0.253	44.965	97.667

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	0.0225	29.05	92.547	0.023	29.05	92.454									
20%	Vmin	0.051	29.03	96.120	0.051	29.031	96.200									
30%	Vmin	0.0755	29.004	97.067	0.075	29.004	96.809									
50%	Vmin	0.1256	28.956	97.435	0.126	28.955	97.433									
75%	Vmin	0.1884	28.746	97.225	0.188	28.746	97.225									
100%	Vmin	0.251	28.871	96.832	0.251	28.871	96.828									
10%	Vnom	0.023	35.048	93.176	0.023	35.048	93.172									
20%	Vnom	0.0502	35.022	96.400	0.05	35.022	96.408									
30%	Vnom	0.0762	34.998	97.286	0.076	34.998	97.283									
50%	Vnom	0.1267	34.927	97.675	0.127	34.927	97.678									
75%	Vnom	0.1883	35.01	97.613	0.188	35.011	97.613									
100%	Vnom	0.252	34.926	97.292	0.252	34.926	97.290									
10%	Vmax	0.0245	45.063	93.625	0.024	45.063	92.335									
20%	Vmax	0.051	45.025	96.675	0.051	45.026	96.669									
30%	Vmax	0.076	45.013	97.600	0.076	45.013	97.593									
50%	Vmax	0.1266	44.986	97.973	0.127	44.986	97.969									
75%	Vmax	0.1874	44.902	97.943	0.187	44.904	97.941									
100%	Vmax	0.2525	44.965	97.588	0.253	44.966	97.718									