Manufacturer: KACO new energy

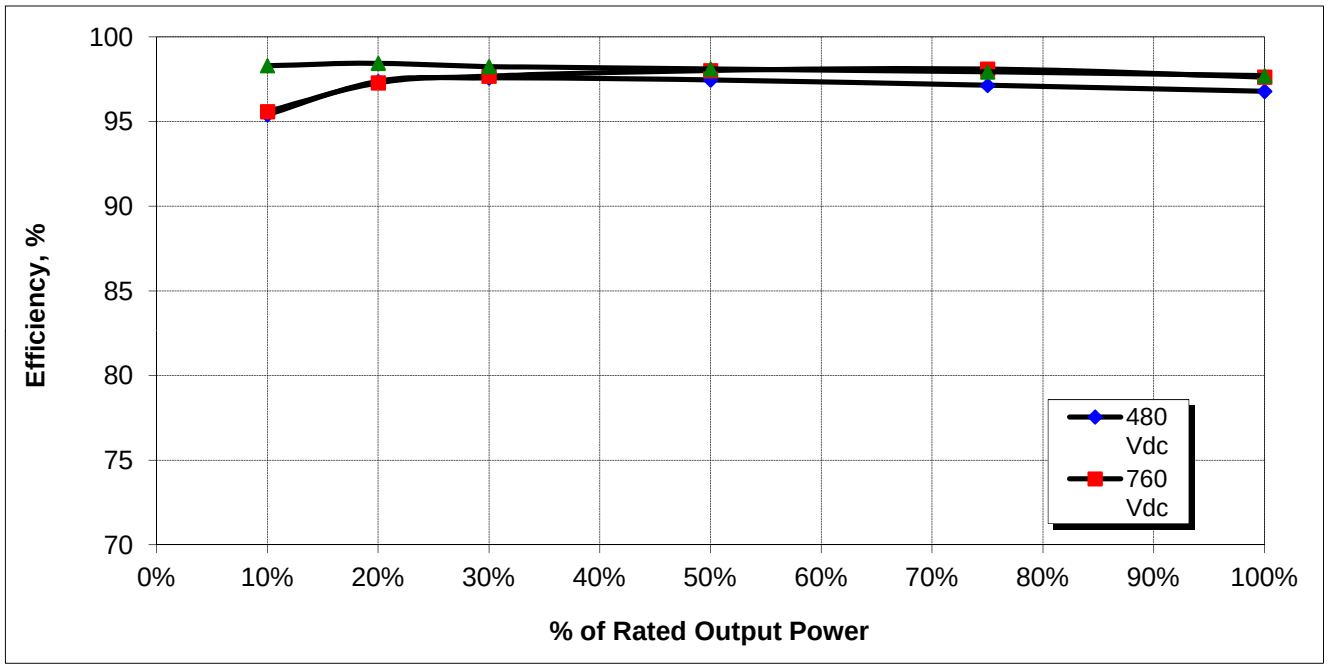
Model #: KACO BluePlanet 50.0 TL3

Rated Maximum Continuous Output Power: 51.28 kW Night Tare Loss: 1.42 W

Vmin: 480 Vdc Vnom: 760 Vdc Vmax: 850 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		5.13	10.26	15.38	25.64	38.46	51.28	Wtd
Vmin	480	95.4	97.4	97.6	97.5	97.1	96.8	97.2
Vnom	760	95.6	97.3	97.7	98.0	98.1	97.6	97.9
Vmax	850	98.3	98.4	98.2	98.1	97.9	97.7	98.0

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	5143	481.02	95.435	51444	481.02	95.507	5131	481.04	95.142	5143	481.04	95.595	5135	481.09	95.322
20%	Vmin	10090	481.02	97.347	10078	479.69	97.372	10079	479.71	97.278	10079	479.71	97.372	10090	479.74	97.450
30%	Vmin	15178	481.02	97.501	15177	479.70	97.570	15184	479.73	97.565	15179	479.69	97.564	15183	479.66	97.621
50%	Vmin	25273	481.02	97.504	25268	479.65	97.417	25273	479.64	97.493	25268	479.59	97.387	25271	479.64	97.485
75%	Vmin	37773	481.02	97.153	37764	479.53	97.097	37768	479.55	97.127	37775	479.56	97.178	37769	479.60	97.093
100%	Vmin	50403	481.02	96.838	50395	467.52	96.787	50402	479.56	96.800	50400	479.54	96.752	50395	479.55	96.757
10%	Vnom	5082	760.10	95.419	5076	760.14	95.774	5080	760.15	95.687	5079	760.12	95.722	5078	760.22	95.362
20%	Vnom	10078	760.66	97.164	10073	760.77	97.342	10070	760.83	97.193	10075	760.71	97.361	10072	760.57	97.361
30%	Vnom	15162	760.78	97.674	15165	760.81	97.813	15163	760.63	97.618	15163	760.82	97.549	15159	760.75	97.718
50%	Vnom	25116	766.16	98.056	25109	766.17	98.067	25100	765.86	98.032	25096	766.11	97.947	25096	766.27	97.962
75%	Vnom	38140	760.61	98.170	38143	760.71	98.122	38143	760.69	98.089	38144	760.76	98.024	38141	760.68	98.084
100%	Vnom	51156	759.78	97.613	51109	760.13	97.575	51159	760.05	97.647	51155	759.85	97.637	51155	759.67	97.635
10%	Vmax	5100	849.45	98.799	5098	849.39	97.513	5095	849.40	98.378	5097	849.42	98.436	5097	849.57	98.397
20%	Vmax	10200	849.55	98.304	10197	849.62	98.256	10200	849.60	98.780	10196	849.64	98.398	10198	849.58	98.484
30%	Vmax	15264	849.61	98.338	15261	849.53	98.179	15263	849.49	98.369	15261	849.48	98.160	15259	849.64	98.192
50%	Vmax	25516	849.69	98.033	25507	849.81	98.217	25517	849.60	97.977	25518	849.60	98.244	25515	849.50	98.067
75%	Vmax	38049	849.67	97.893	38051	849.73	97.911	38049	849.72	97.923	38051	849.47	97.941	38050	849.58	97.979
100%	Vmax	51123	849.72	97.652	51116	849.88	97.688	51121	849.80	97.727	51147	849.46	97.715	51135	849.57	97.744

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															