Manufacturer: Shenzhen Byd Auto Co Ltd

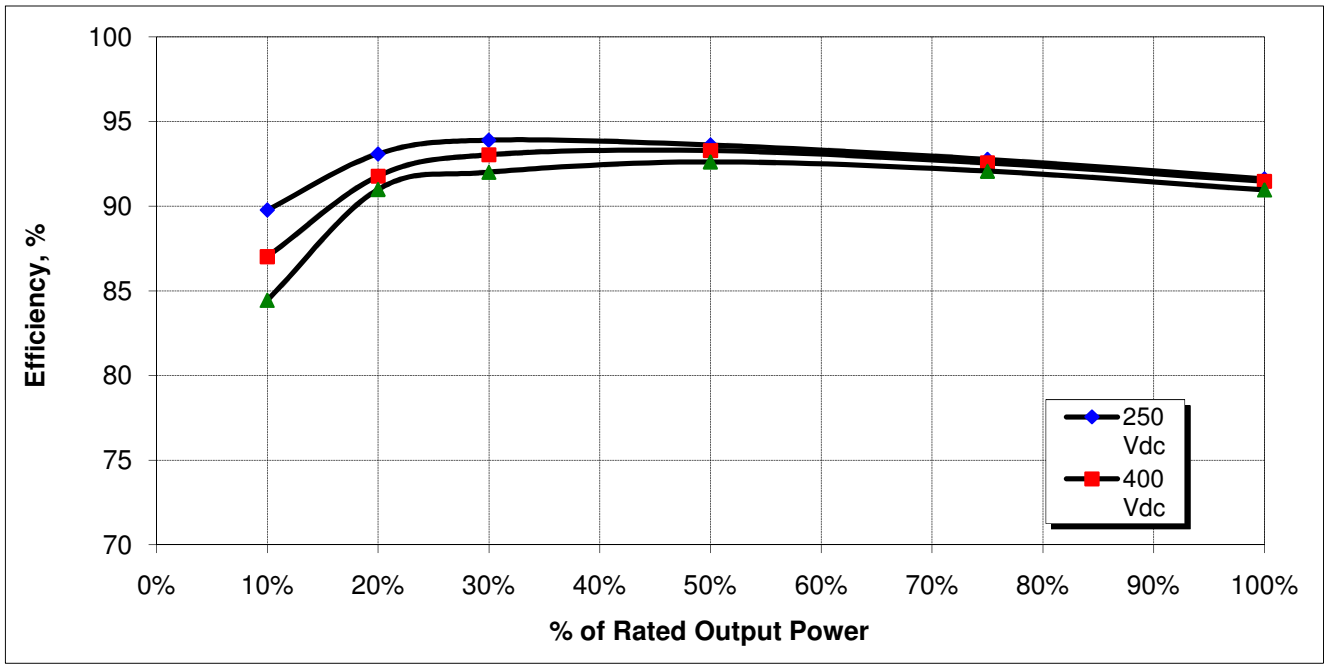
Model #: BSG5000-U

Rated Maximum Continuous Output Power: 4.91 kW Night Tare Loss: 1.32 W

Vmin: 250 Vdc Vnom: 400 Vdc Vmax: 550 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.49	0.98	1.47	2.46	3.69	4.91	Wtd
Vmin	250	89.8	93.1	93.9	93.6	92.8	91.6	92.9
Vnom	400	87.0	91.8	93.0	93.3	92.6	91.5	92.4
Vmax	550	84.4	91.0	92.0	92.6	92.1	91.0	91.8

CEC Efficiency = 92.5%



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	0.497	252.472	90.364	0.498	252.471	90.054	0.482	252.469	89.259	0.481	252.479	89.074	0.485	252.467	89.319
20%	Vmin	1.001	252.459	92.943	1.000	252.458	92.851	1.002	252.461	92.864	1.011	252.463	93.094	1.012	252.461	93.444
30%	Vmin	1.518	252.454	93.994	1.532	252.456	94.045	1.528	252.456	94.031	1.516	252.460	93.928	1.532	252.459	93.643
50%	Vmin	2.489	252.446	93.466	2.512	252.450	93.487	2.506	252.442	93.647	2.492	252.446	93.719	2.494	252.443	93.654
75%	Vmin	3.755	253.254	92.808	3.749	253.271	92.820	3.754	253.258	92.806	3.786	253.222	92.726	3.770	253.241	92.652
100%	Vmin	5.006	252.177	91.769	5.100	251.885	91.694	5.014	252.113	91.496	5.102	251.834	91.352	5.002	252.128	91.394
10%	Vnom	0.446	400.560	86.770	0.448	400.560	86.654	0.441	400.563	86.640	0.458	400.564	88.077	0.459	400.568	87.931
20%	Vnom	0.960	400.549	91.778	0.945	400.555	92.016	0.943	400.546	91.732	0.938	400.548	91.691	0.940	400.550	91.529
30%	Vnom	1.456	400.536	93.393	1.444	400.537	92.862	1.443	400.540	92.977	1.472	400.539	93.165	1.464	400.538	93.071
50%	Vnom	2.482	400.526	93.238	2.452	400.526	93.374	2.480	400.526	93.338	2.453	400.524	93.341	2.453	400.526	93.164
75%	Vnom	3.756	400.534	92.490	3.747	400.538	92.564	3.722	400.534	92.610	3.744	400.543	92.582	3.721	400.535	92.608
100%	Vnom	5.000	400.147	91.525	5.009	400.142	91.572	5.033	400.134	91.559	5.022	400.439	91.559	5.011	400.146	91.542
10%	Vmax	0.419	549.539	84.646	0.410	549.541	84.189	0.409	549.541	83.811	0.403	549.539	83.958	0.426	549.534	84.861
20%	Vmax	1.023	548.953	91.176	1.022	548.953	91.006	1.021	548.953	90.917	1.020	548.954	90.828	1.021	548.953	90.998
30%	Vmax	1.401	549.566	91.929	1.423	549.561	92.223	1.404	549.561	92.005	1.399	549.563	91.858	1.419	549.564	91.904
50%	Vmax	2.409	549.553	92.654	2.443	549.549	92.608	2.414	549.553	92.526	2.413	549.550	92.488	2.420	549.558	92.614
75%	Vmax	3.682	549.534	91.820	3.682	549.534	92.165	3.704	549.534	92.048	3.677	549.533	92.040	3.709	549.537	92.080
100%	Vmax	4.931	549.530	90.047	4.957	549.525	90.887	4.981	549.525	90.961	4.984	549.532	91.249	4.925	549.526	91.221

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	0.483	252.475	89.944	0.497	252.468	90.364									
20%	Vmin	1.030	252.462	93.466	1.017	252.466	92.962									
30%	Vmin	1.515	252.470	93.750	1.533	252.457	93.934									
50%	Vmin	2.494	252.443	93.689	2.519	252.445	93.643									
75%	Vmin	3.785	253.220	92.701	3.780	253.219	92.806									
100%	Vmin	5.016	252.147	91.784	5.006	252.178	91.769									
10%	Vnom	0.443	400.564	86.523	0.436	400.570	86.508									
20%	Vnom	0.948	400.548	91.683	0.960	400.548	91.954									
30%	Vnom	1.450	400.539	92.889	1.445	400.535	92.866									
50%	Vnom	2.487	400.521	93.216	2.454	400.522	93.308									
75%	Vnom	3.745	400.533	92.469	3.719	400.538	92.558									
100%	Vnom	4.966	400.172	91.236	5.010	400.152	91.257									
10%	Vmax	0.419	549.536	85.163	0.420	549.541	84.507									
20%	Vmax	1.022	548.952	91.006	1.022	548.953	91.006									
30%	Vmax	1.419	549.558	92.023	1.404	549.562	92.126									
50%	Vmax	2.424	549.551	92.696	2.444	549.550	92.751									
75%	Vmax	3.679	549.540	92.159	3.712	549.535	92.201									
100%	Vmax	4.938	549.521	91.242	4.929	549.527	91.109									