Manufacturer: Shenzhen Byd Auto Co Ltd

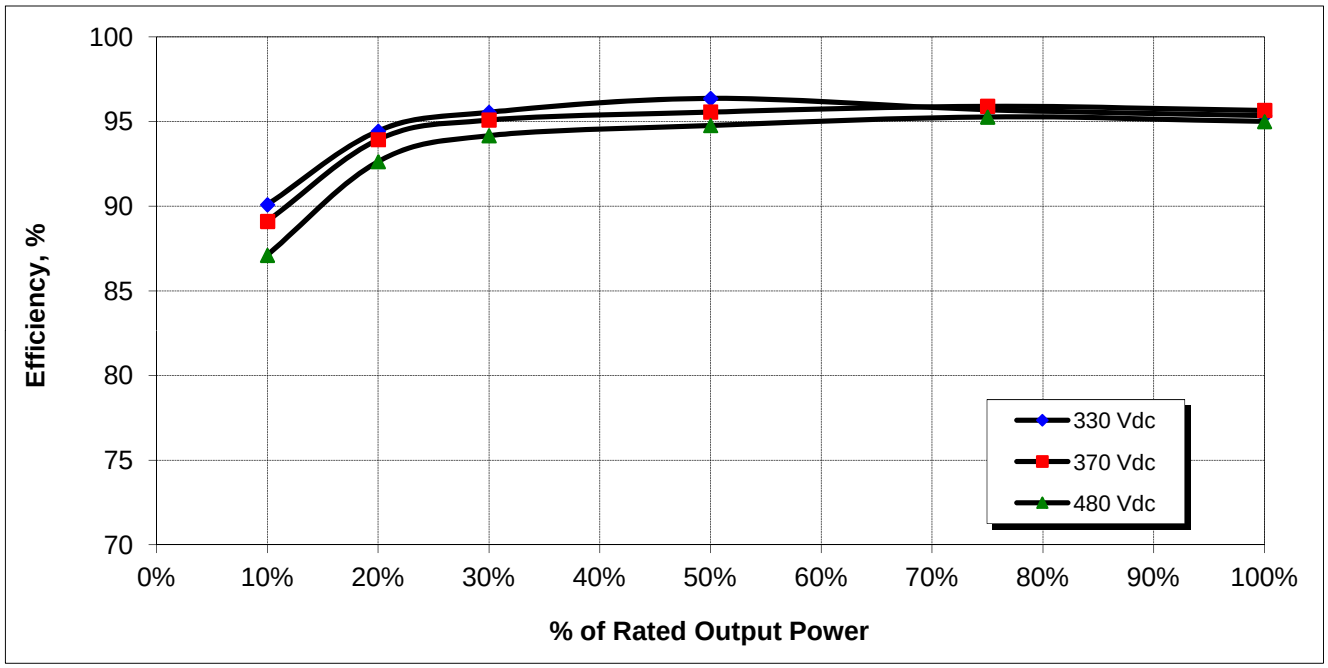
Model #: BSG250K-U; BSG250K-U/N

Rated Maximum Continuous Output Power: 250.37 kW Night Tare Loss: 151.00 W

Vmin: 330 Vdc Vnom: 370 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		25.04	50.07	75.11	125.19	187.78	250.37	Wtd
Vmin	330	90.1	94.4	95.5	96.4	95.7	95.3	95.5
Vnom	370	89.1	93.9	95.1	95.6	95.9	95.7	95.4
Vmax	480	87.1	92.6	94.2	94.8	95.3	95.0	94.6

CEC Efficiency = 95.0%



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	24.56	332.41	90.286	24.54	332.41	90.256	24.42	332.34	89.834	24.49	332.33	90.071	24.48	332.34	90.142
20%	Vmin	54.15	332.01	94.359	54.21	332.15	94.492	54.16	332.09	94.415	54.16	332.1	94.451	54.25	332.18	94.498
30%	Vmin	80.74	331.44	95.620	80.73	331.56	95.586	80.64	331.54	95.483	80.71	331.46	95.556	80.68	331.5	95.521
50%	Vmin	136.8	330.12	96.394	136.7	330.09	96.345	136.8	329.87	96.368	136.7	330.17	96.322	136.7	330.13	96.303
75%	Vmin	176.35	330.35	95.683	176.4	330.32	95.740	176.3	330.42	95.667	176.4	330.18	95.682	176.3	330.14	95.695
100%	Vmin	238.26	329.16	95.355	238.3	328.98	95.355	238.2	329.02	95.321	238.2	328.99	95.320	238.3	328.83	95.331
10%	Vnom	24.53	372.43	89.121	24.56	372.42	89.065	24.52	372.46	88.958	24.53	372.67	89.040	24.53	372.55	89.117
20%	Vnom	54.11	371.93	93.893	54.16	371.91	94.041	54.14	371.88	94.041	54.14	371.73	93.956	54.2	371.67	94.101
30%	Vnom	80.63	371.6	95.142	80.57	371.44	95.083	80.58	371.48	95.050	80.56	371.49	95.075	80.61	371.5	95.128
50%	Vnom	136.94	370.15	95.560	137	370.26	95.564	137	370.2	95.548	137	370.2	95.565	137	370.21	95.557
75%	Vnom	176.14	371.69	95.929	176	371.73	95.910	176	371.88	95.864	176.1	371.95	95.904	176.1	371.86	95.907
100%	Vnom	238.34	370.71	95.640	238.3	370.58	95.643	238.3	370.66	95.645	238.4	370.65	95.642	238.3	370.62	95.672
10%	Vmax	24.62	482.17	87.169	24.6	482.19	87.007	24.59	481.97	87.040	24.59	481.97	87.039	24.59	482.01	87.032
20%	Vmax	54.37	481.13	92.618	54.45	481.16	92.749	54.38	481.03	92.586	54.32	481	92.542	54.37	481.11	92.637
30%	Vmax	80.75	481.14	94.115	80.77	481.21	94.136	80.79	481.22	94.184	80.78	481.29	94.168	80.76	481.18	94.138
50%	Vmax	136.42	480.47	94.730	136.4	480.46	94.723	136.4	480.51	94.691	136.5	480.62	94.734	136.4	480.44	94.747
75%	Vmax	175.62	482.23	95.267	175.7	481.9	95.294	175.8	481.68	95.299	175.7	481.92	95.278	175.7	482.02	95.261
100%	Vmax	238.16	481.24	95.047	238.1	481.19	95.031	238.1	481.22	94.985	238	481.2	94.975	238.1	481.14	94.983

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	24.51	332.33	90.123	24.44	332.27	89.805	24.5	332.23	90.268	24.47	332.29	90.053	24.48	332.36	90.082
20%	Vmin	54.11	332.12	94.332	54.16	332.15	94.397	54.18	332.07	94.527	54.19	332.07	94.482	54.14	332.17	94.396
30%	Vmin	80.71	331.65	95.561	80.66	331.55	95.509	80.74	331.72	95.574	80.62	331.56	95.485	80.64	331.57	95.524
50%	Vmin	136.85	330.08	96.387	136.8	330.23	96.371	136.8	330.09	96.379	136.7	330.19	96.323	136.8	330.15	96.397
75%	Vmin	176.31	330.21	95.671	176.4	330.42	95.739	176.4	330.43	95.712	176.3	330.25	95.677	176.3	330.36	95.685
100%	Vmin	238.18	328.96	95.285	238.4	329.07	95.393	238.2	329.24	95.310	238.3	329.18	95.368	238.2	329.09	95.322
10%	Vnom	24.54	372.72	89.150	24.53	372.68	89.098	24.58	372.63	89.231	24.57	372.63	89.243	24.54	372.48	89.099
20%	Vnom	54.1	371.69	93.935	54.15	371.58	93.899	54.06	371.79	93.786	54.06	371.64	93.766	54.08	371.79	93.906
30%	Vnom	80.5	371.37	94.968	80.53	371.5	95.062	80.64	371.57	95.157	80.57	371.61	95.089	80.64	371.61	95.142
50%	Vnom	136.96	370.33	95.567	137	370.15	95.524	137	370.29	95.527	137	370.25	95.624	137	370.16	95.563
75%	Vnom	176.08	371.74	95.936	176.2	371.66	95.920	176	371.69	95.896	176.1	371.73	95.919	176.1	371.81	95.884
100%	Vnom	238.29	370.68	95.675	238.3	370.92	95.664	238.2	370.67	95.679	238.3	370.74	95.663	238.2	370.8	95.633
10%	Vmax	24.63	482.06	87.209	24.6	482.22	87.104	24.63	482.12	87.199	24.59	481.97	87.115	24.62	482.21	87.162
20%	Vmax	54.4	481.08	92.682	54.36	481.03	92.632	54.36	481	92.629	54.36	481.19	92.634	54.36	481.09	92.576
30%	Vmax	80.73	481.07	94.145	80.82	481.34	94.202	80.8	481.28	94.202	80.78	481.24	94.169	80.78	481.29	94.169
50%	Vmax	136.45	480.56	94.749	136.4	480.45	94.738	136.3	480.26	94.775	136.4	480.36	94.885	136.4	480.32	94.882
75%	Vmax	175.7	481.95	95.249	175.7	481.99	95.262	175.6	482.1	95.238	175.7	482.01	95.270	175.7	482	95.277
100%	Vmax	238.15	481.19	95.004	238.1	481.13	94.996	238	481.3	94.987	238.1	481.24	95.006	238.2	481.09	95.022