Manufacturer: Shenzhen Byd Auto Co Ltd

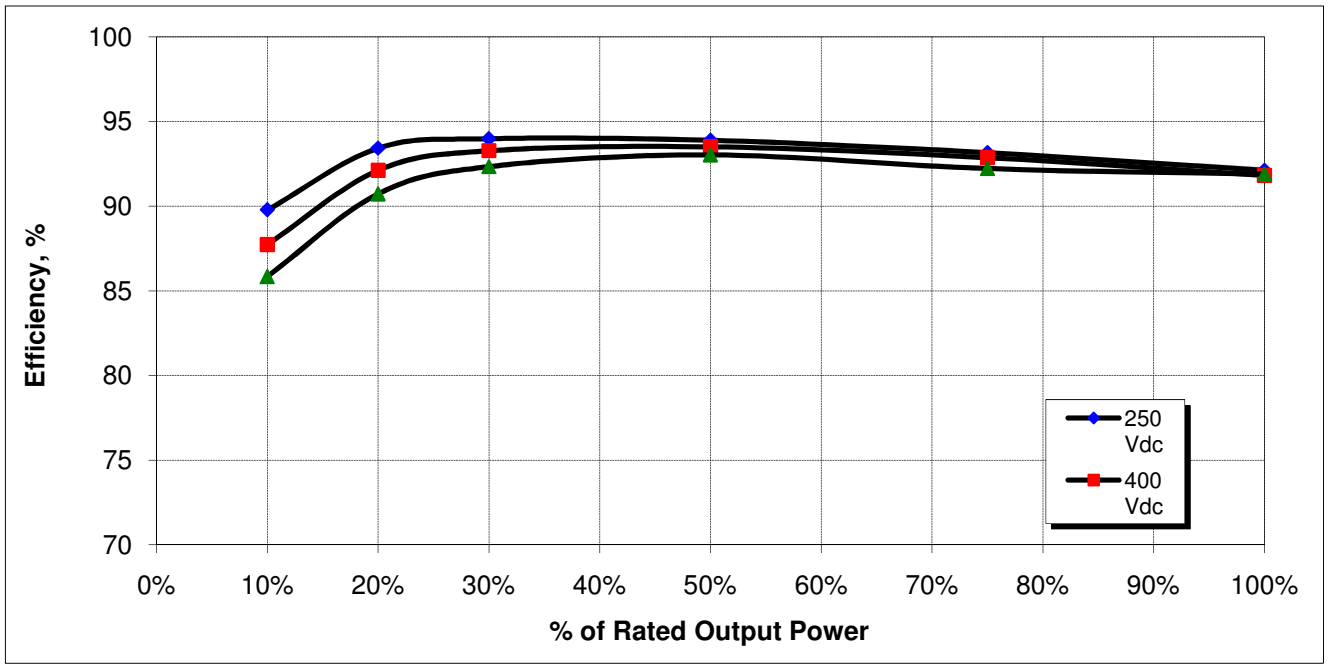
Model #: BSG5000-U

Rated Maximum Continuous Output Power: 4.88 kW Night Tare Loss: 1.75 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	1.46	2.44	3.66	4.88	Wtd
Vmin	250	89.8	93.4	94.0	93.9	93.2	92.1	93.2
Vnom	400	87.7	92.1	93.3	93.5	92.9	91.8	92.8
Vmax	550	85.8	90.7	92.3	93.0	92.2	91.9	92.1

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	0.487	252.969	89.522	0.479	252.969	89.533	0.479	252.962	90.038	0.485	252.960	90.317	0.488	252.960	90.538
20%	Vmin	1.015	252.962	93.635	1.019	252.964	93.658	1.009	252.967	93.081	1.001	252.968	93.116	1.015	252.968	93.462
30%	Vmin	1.513	252.961	93.859	1.513	252.962	94.151	1.505	252.961	94.121	1.513	252.957	94.151	1.494	252.962	93.785
50%	Vmin	2.523	252.943	93.966	2.504	252.951	93.748	2.526	252.954	93.799	2.510	252.959	93.937	2.527	252.962	93.975
75%	Vmin	3.747	252.741	93.186	3.767	252.693	93.035	3.732	252.746	93.137	3.771	252.703	93.180	3.752	252.720	93.194
100%	Vmin	5.065	251.333	92.208	5.011	251.502	92.165	5.031	251.457	92.160	5.072	251.335	92.168	5.016	251.508	92.240
10%	Vnom	0.463	400.948	88.190	0.462	400.962	87.335	0.466	400.949	87.103	0.469	400.955	87.175	0.482	400.946	88.117
20%	Vnom	1.013	400.962	91.840	0.998	400.940	91.982	1.009	400.937	92.315	0.994	400.939	92.379	1.003	400.936	92.272
30%	Vnom	1.503	400.949	93.354	1.496	400.930	93.325	1.488	400.932	93.350	1.475	400.929	93.295	1.499	400.930	93.106
50%	Vnom	2.491	400.955	93.576	2.510	400.913	93.378	2.509	400.909	93.410	2.509	400.912	93.584	2.513	400.905	93.559
75%	Vnom	3.756	400.946	92.787	3.736	400.925	92.866	3.737	400.924	92.937	3.727	400.925	92.873	3.770	400.924	92.903
100%	Vnom	4.965	400.951	91.927	4.987	400.505	91.960	4.978	400.505	92.015	5.075	400.449	91.689	4.976	400.506	91.724
10%	Vmax	0.471	549.917	85.481	0.477	549.914	86.413	0.478	549.908	86.438	0.476	549.909	86.076	0.493	549.915	85.590
20%	Vmax	1.002	549.936	89.305	1.002	549.932	91.174	1.006	549.929	91.206	1.024	549.936	90.780	0.987	549.931	90.634
30%	Vmax	1.477	549.940	92.255	1.483	549.938	92.514	1.490	549.938	92.547	1.486	549.935	92.470	1.486	549.944	92.126
50%	Vmax	2.482	549.931	92.716	2.502	549.932	93.708	2.494	549.934	92.921	2.522	549.935	92.960	2.525	549.936	92.968
75%	Vmax	3.736	549.909	92.407	3.736	549.905	92.315	3.738	549.909	91.978	3.759	549.911	92.110	3.777	549.904	92.099
100%	Vmax	4.997	549.907	92.383	4.973	549.903	91.939	5.041	549.902	91.389	5.033	549.901	91.542	5.014	549.913	91.563

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	0.477	252.962	89.326	0.479	252.956	89.199									
20%	Vmin	0.998	252.997	93.533	0.993	252.973	93.503									
30%	Vmin	1.493	252.960	93.840	1.509	252.962	94.019									
50%	Vmin	2.534	252.950	93.887	2.503	252.959	93.956									
75%	Vmin	3.735	252.752	93.189	3.734	252.745	93.210									
100%	Vmin	5.015	251.484	91.968	5.053	251.331	91.923									
10%	Vnom	0.468	400.951	88.302	0.467	400.948	87.947									
20%	Vnom	1.006	400.932	92.040	0.990	400.938	92.007									
30%	Vnom	1.482	400.931	93.208	1.498	400.930	93.333									
50%	Vnom	2.519	400.912	93.469	2.511	400.906	93.624									
75%	Vnom	3.730	400.918	92.809	3.733	400.922	92.930									
100%	Vnom	5.069	400.451	91.730	5.062	400.449	91.703									
10%	Vmax	0.469	549.907	85.428	0.466	549.913	85.505									
20%	Vmax	0.993	549.937	90.685	1.024	549.930	91.266									
30%	Vmax	1.500	549.941	92.081	1.503	549.937	92.322									
50%	Vmax	2.490	549.941	92.772	2.498	549.933	93.105									
75%	Vmax	3.762	549.916	92.138	3.748	549.915	92.498									
100%	Vmax	4.992	549.902	92.736	5.042	549.901	91.639									