Manufacturer: NINGBO GINLONG TECHNOLOGIES

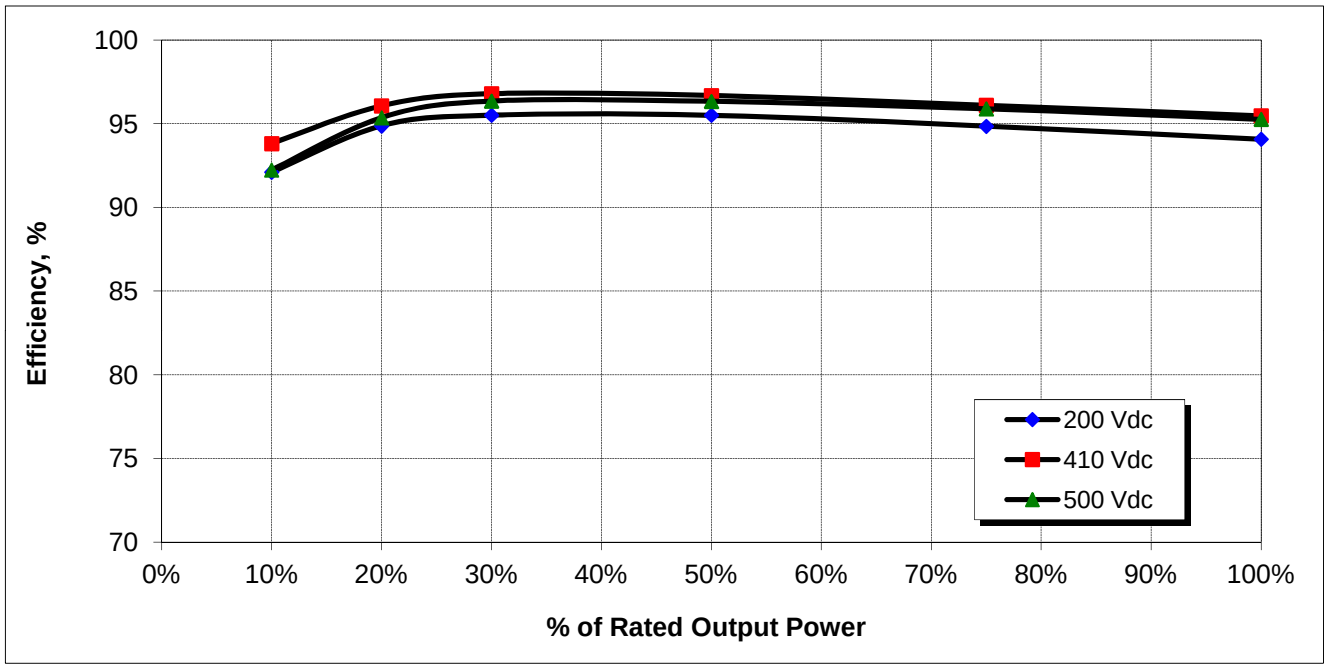
Model #: GCI-5K-DB

Rated Maximum Continuous Output Power: 5.00 kW Night Tare Loss: 0.45 W

Vmin: 200 Vdc Vnom: 410 Vdc Vmax: 500 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.50	1.00	1.50	2.50	3.75	5.00	Wtd
Vmin	200	92.1	94.9	95.5	95.5	94.8	94.1	94.9
Vnom	410	93.8	96.1	96.8	96.7	96.1	95.5	96.2
Vmax	500	92.2	95.4	96.4	96.3	95.9	95.3	95.8

CEC Efficiency = 95.5%



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)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	454.57	22.201	92.100	454.4	200.2	92.123	454.4	200.2	92.120	453.9	200.2	92.070	454.5	200.2	92.111
20%	Vmin	1019.5	199.93	94.889	1019	199.92	94.866	1018	199.92	94.856	1018	199.92	94.861	1019	199.92	94.876
30%	Vmin	1511.3	199.81	95.511	1511	199.81	95.494	1512	199.8	95.503	1512	199.81	95.505	1512	199.81	95.499
50%	Vmin	2516	199.6	95.501	2517	199.59	95.510	2516	199.6	95.500	2516	199.59	95.494	2516	199.59	95.506
75%	Vmin	3811.3	199.3	94.843	3812	199.3	94.847	3812	199.3	94.852	3812	199.3	94.848	3812	199.3	94.853
100%	Vmin	4917.9	199.03	94.082	4918	199.04	94.075	4918	199.04	94.075	4917	199.04	94.069	4917	199.03	94.069
10%	Vnom	479.69	410.36	93.822	479.7	410.37	93.820	479.7	410.37	93.811	479.8	410.36	93.820	479.7	410.37	93.808
20%	Vnom	983.32	410.15	96.064	983.3	410.15	96.065	983.2	410.16	96.058	983.2	410.15	96.061	983.3	410.15	96.061
30%	Vnom	1493.6	410.08	96.923	1494	410.08	96.738	1494	410.08	96.751	1494	410.08	96.762	1494	410.08	96.775
50%	Vnom	2376.5	409.82	96.680	2376	409.82	96.679	2376	409.82	96.679	2376	409.82	96.680	2376	409.82	96.677
75%	Vnom	3704.8	409.88	96.096	3705	409.88	96.095	3705	409.88	96.095	3705	409.88	96.096	3705	409.88	96.096
100%	Vnom	4979.5	407.38	95.468	4980	407.38	95.468	4980	407.39	95.468	4980	407.39	95.468	4980	407.38	95.468
10%	Vmax	470.4	500.35	92.237	470.4	500.35	92.242	470.4	500.35	92.234	470.5	500.35	92.233	470.5	500.35	92.232
20%	Vmax	998.56	500.25	95.357	998.5	500.26	95.353	998.5	500.25	95.355	998.5	500.25	95.357	998.6	500.25	95.355
30%	Vmax	1509.6	500.15	96.345	1509	500.14	96.347	1509	500.15	96.350	1509	500.15	96.360	1509	500.15	96.359
50%	Vmax	2456	500.06	96.334	2456	500.06	96.336	2456	500.06	96.337	2456	500.06	96.335	2456	500.06	96.335
75%	Vmax	3728	499.52	95.882	3728	499.53	95.884	3728	499.53	95.884	3728	499.53	95.884	3726	494.05	95.898
100%	Vmax	4942.1	497.21	95.261	4942	497.21	95.263	4942	497.21	95.262	4942	497.21	95.260	4942	497.21	95.260

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															
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															