

GCI-2G-W-US Single Phase Inverter  
1kW-5kW

# GCI-1kW-5kW



## Leading Features

- ▶ Over 97.8% Max. efficiency
- ▶ 40 point leading three and four MPPT design with precise MPPT algorithm
- ▶ Specific grid-connection controlling algorithm for wind turbine
- ▶ Industry widest input voltage range
- ▶ Industry leading three and four MPPT design with precise MPPT algorithm
- ▶ Integrated AFCI option
- ▶ Compact and light design for one-person easy installation
- ▶ NEMA 4X enclosure with anti-corrosion feature, visually pleasing for indoor and out door installations
- ▶ Rs485 Modbus communications, WiFi/GPRS(optional) interface
- ▶ Web-based data monitoring and 'SolisWeb' APP
- ▶ 10 years standard warranty with optional extensions

**Manufacturer:** Ginlong (Ningbo) Technologies Co.,Ltd., Ningbo, Zhejiang, P.R.China

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# Datasheet

Model	GCI-1K-2G-W-US	GCI-1.5K-2G-W-US	GCI-2K-2G-W-US	GCI-2.5K-2G-W-US	GCI-3K-2G-W-US	GCI-3.6K-2G-W-US	GCI-3.8K-2G-W-US	GCI-4K-2G-W-US	GCI-4.6K-2G-W-US	GCI-5K-2G-W-US	
Energy source	WIND										
<b>DC Values</b>											
Max.DC input power	1.2kW	1.8kW	2.3kW	3kW	3.5kW	4.2kW	4.6kW	4.6kW	5.3kW	5.8kW	
Max.DC input voltage	500V			600V							
Start-up DC voltage	40V										
MPPT voltage range	30-400V			30-540V							
Rated DC voltage	250V			300V							
Max.input current	10A			20A			25A				
MPPT number/Max input strings number	1/1										
<b>AC Values</b>											
Nominal output power (Watt)	1000	1500	2000	2500	3000	3600	3800	4000	4600	5000	
Max. continuous output power (Watt)	1100	1700	2200	2800	3300	4000	4000	4400	5000	5000	
Nominal grid voltage (Volts)	208/240										
Operating voltage range (Volts)	183~228(for 208V rated)/211~264(for 240V rated)										
Operating phase	Single										
Max continuous output current (Amps)	5.2	8.1	10.5	13.3	15.7	16	16	21	23.8	23.8	
Max overcurrent protection device (Amps)	10			20				30			
Rating grid output current (Amps)	4.8/4.2	7.2/6.3	9.6/8.3	12/10.4	14.4/12.5	16/15	16/15.8	19.2/16.7	20.9/20	23.8/20.8	
Output power factor	>0.99										
Grid current THD	<3%										
DC injection current (mAmps)	<20										
Nominal grid frequency (Hertz)	60										
Operating frequency range (Hertz)	59.3-60.5										
<b>Efficiency</b>											
Peak efficiency	96.8%			97.5%			97.8%				
CEC weighted efficiency	96.2%			96.8%			97.0%				
MPPT efficiency	99.9%										
<b>Protection</b>											
Temperature protection	Yes										
DC reverse-polarity protection	Yes										
AC short circuit protection	Yes										
AC output overcurrent protection	Yes										
Output overvoltage protection-Varistor	Yes										
Ground fault monitoring	Yes										
Grid monitoring	Yes										
Islanding protection	Yes										
Integrated DC switch	Yes										
Integrated AFCI(DC arc-fault circuit protection)	Yes										
Rapid shutdown	Optional										
<b>General data</b>											
Dimensions(W*H*D)	13.3*25.9*6.5in			13.3*25.9*6.8in							
Weight	21.6lb			33.1lb			38.6lb				
Topology	Transformerless										
Internal consumption	<1W(Night)										
Ambient operating temperature range	-25°C~-60°C/-13°F~140°F										
Enclosure type	NEMA 4X										
Noise emission(typical)	<30 dBA										
Cooling type	Natural convection										
Max.operating altitude without derating	13120ft										
Designed lifetime	>20 years										
Compliance	CAN/CSAC22.2 N107.1, UL1741, IEEE1547, UL1998, UL1699B, FCC part15,Class B										
Operating surroundings humidity	0~100%										
<b>Features</b>											
Conduit connention	Plugged 3/4" openings for bottom and side										
Display	LCD, 2 x 20 Z.										
Interface	RS 485, WiFi/GPRS (optional)										
Warranty Terms	10 years										