



Ginlong Technologies

# INVERTER **B**ROCHURE



Verona, Italy  
9-11 May 2012  
Stand Number: Hall 7-D10.2



Atlanta, USA  
3-6 June 2012  
Stand Number: Booth 2361



Munich, Germany  
13-15 June 2012  
Stand Number: C4.470



Clean Energy Council  
Sydney, Australia  
25-28 July 2012



Orlando, FL  
10-13 September 2012  
Stand Number: Hall A-657



Husum, Germany  
18-22 September 2012  
Stand Number: 2F24



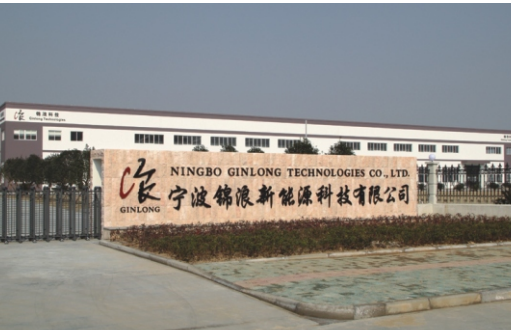
Frankfurt, Germany  
25-28 September 2012  
Stand Number: Hall 5



Melbourne, Australia  
10-11 October 2012  
Stand Number: F175



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# Introduction

Ningbo Ginlong Technologies, which started as one person who wanted to make a difference, is headquartered in Zhejiang, China and now has two representative offices in Europe and Australia respectively.

With the machine and electrical products manufacturing background going back over 20 years, and years of efforts that a team of dedicated engineers experienced in renewable energy put into research and development, Ginlong has grown up as a highly specilized renewable company devoted to providing you with top quality renewable products for wind or photovoltaic applications.

Inverters are technologically the most important component in solar systems, which converts DC current into AC current suitable for the grid. Ginlong has a strong research and development team consists of several Ph.D. holders and industry experts to spearhead the team. They all have many years of experience in their respective areas of research and expertise which is crucial to the solving of the clients R&D and production problems, some of it resulting in new patents for the company in order to protect the product and design. As a result, Ginlong inverters have already passed several certifications to meet the requirements of various countries.

Furthermore, Ginlong has introduced some advanced manufacturing technologies in the production, such as Surface Mount Technology (SMT) and Wave Soldering (WS), up-to-date production management and extremely strict quality control procedure to ensure the high quality and reliability of Ginlong inverters.

In the meantime, Ginlong also focuses on providing customers with local point of contact to assist them with good aftersales services and technical support for Ginlong products.

All these efforts put in has led Ginlong to become one of the world's most competitive manufacturers on solar and wind grid-tie inverters.

## GCI-1.5K

GCI-1.5K inverter provides our customers with superior performance and reliability through the most advanced design and application of inverter technology. This inverter complies with AS4777, G83/1 and otherrelated international standards.



Model	GCI-1.5K	
Energy source	Wind	PV
Max. DC inputvoltage	450V	
MPPT operating range	30-400V	100-400V
Max. DC inputcurrent	9A	
Number of MPP/Max stringsper MPPT	1/1	
Rated output power	1.5kW	
Max. transient Power	1.7kW	
Rated ACgrid voltage	230V	
AC grid voltage range	180~270V (adjustable)	
Operating phase	Single	
Rated ACgrid output current	6.25A	
Output power factor	>0.99	
Grid current THD	Total THD<4%	
DC injection current	<10mA	
Rated grid frequency	50/60Hz	
Max. Efficiency	>95%	
Protection	DC reverse-polarity protection; AC short circuit protection; islanding protection; temperature protection, Etc.	
Size	520W×385H×120D( mm)	
Weight	12.7kG	
Topology	Transformerless	
Internal consumption	<5W( no wind)	<1W(Night)
Operating environment temperature	-25~60℃	
Ingress protection	IP65	
Interface	RS485	
Designed lifetime	>20 years	
Operating range utility frequency (Hz)	47-52 or 57-62 (ajustable)	
Utility monitoring	Islanding protection V <sub>AC</sub> , F <sub>AC</sub> in accordance with UL 1741, G83/1, AS4777, VDE 0126-1-1	
Operating surroundings humidity	0~95%	
EMC	EN61000-6-1:2007 EN61000-6-3:2007	

# GCI-2K

Every month, there are more than 5 megawatts of photovoltaic and wind turbine applications choose GCI-2K inverter as their grid-tie solution. With its smart and advanced technology, GCI-2K provides our customers with superior performance and reliability. This inverter is also certified to UL 1741, AS4777, G83/1 and other related international standards.



# GCI-3K

GCI-3K inverter is in a popular size and perfect for home use. It is light, compact and quiet whilst provides high efficiency and good performance to our customers. With its IP65 rating, it can be installed either indoor or outdoor. The operation keys and the digital display of the inverter allow easy access to programing and monitoring functions.



Mode		GCI-2K
Energy source	Wind	PV
Max. DC inputvoltage	600V	
MPPT operating range	30-540V	100-500V
Max. DC inputcurrent	9A	
Number of MPP/Max stringsper MPPT	1/1	
Rated output power	2kW	
Max. transient power	2.2kW	
Rated ACgrid voltage	230V	
AC grid voltage range	180~270V (adjustable)	
Operating phase	Single	
Rated ACgrid output current	8.7A	
Output power factor	>0.99	
Grid current THD	Total THD<4%	
DC injection current	<10mA	
Rated grid frequency	50/60Hz	
Max. Efficiency	>95%	
Protection	DC reverse-polarity protection; AC short circuit protection; islanding protection; temperature protection. Etc.	
Size	520W×385H×120D( mm)	
Weight	12.7kG	
Topology	Transformerless	
Internal consumption	<6W(no wind)	<1W(Night)
Operating environment temperature	-25~60°C	
Ingress protection	IP65	
Interface	RS485	
Designed lifetime	>20 years	
Operating range utility frequency (Hz)	47-52 or 57-62 (ajustable)	
Utility monitoring	Islanding protection V <sub>AC</sub> , F <sub>AC</sub> in accordance with UL 1741, G83/1, AS4777, VDE 0126-1-1	
Operating surroundings humidity	0~95%	
EMC	EN61000-6-1:2007 EN61000-6-3:2007	

Model		GCI-3K
Energy source	Wind	PV
Max. DC inputvoltage	600V	
MPPT operating range	30-540V	100-500V
Max. DC inputcurrent	20A	10A+10A
Number of MPP/Max stringsper MPPT	1/1	2/1
Rated output power	3kW	
Max. transient power	3.3kW	
Rated ACgrid voltage	230V	
AC grid voltage range	180~270V (adjustable)	
Operating phase	Single	
Rated ACgrid output current	13.0A	
Output power factor	>0.99	
Grid current THD	Total THD<4%	
DC injection current	<20mA	
Rated grid frequency	50/60Hz	
Max. Efficiency	>96.5%	
Protection	DC reverse-polarity protection; AC short circuit protection; islanding protection; temperature protection. Etc.	
Size	520W×385H×150D( mm)	
Weight	16kG	
Topology	Transformerless	
Internal consumption	<6W( no wind)	<1W(Night)
Operating environment temperature	-25~60°C	
Ingress protection	IP65	
Interface	RS485 and Bluetooth	
Designed lifetime	>20 years	
Operating range utility frequency (Hz)	47-52 or 57-62 (ajustable)	
Utility monitoring	Islanding protection V <sub>AC</sub> , F <sub>AC</sub> in accordance with UL 1741, G83/1, AS4777, VDE 0126-1-1	
Operating surroundings humidity	0~95%	
EMC	EN61000-6-1:2007 EN61000-6-3:2007	



# GCI-3.6K

GCI-3.6K is transformerless grid tie inverter.

It can be used for both indoor and outdoor application with the operation temperature from -25 to 60. It is quiet, reliable and flexible for multi-units stackable configuration.



# GCI-4.6K

Like the other new Ginlong inverters, GCI-4.6K is equiped with bluetooth wireless technology, by which it can be easily connected to your bluetooth devices. It also provides excellent flexibility for solar system installations with two Maximum Power Point Trackers (MPPT) built in. These new features, as well as the enhanced performance and reliability of Ginlong inverters, will greatly satisfy our customers from beginning to end.



Model		GCI-3.6K
Energy source	Wind	PV
Max. DC inputvoltage	600V	
MPPT operating range	30-540V	100-500V
Max. DC inputcurrent	24A	10A+10A
Number of MPP/Max stringsper MPPT	1/1	2/1
Rated output power	3.6kW	
Max. transient power	3.8kW	
Rated ACgrid voltage	230V	
AC grid voltage range	180~270V (adjustable)	
Operating phase	Single	
Rated ACgrid output current	15.7A	
Output power factor	>0.99	
Grid current THD	Total THD<4%	
DC injection current	<20mA	
Rated grid frequency	50/60Hz	
Max. Efficiency	>97.5%	
Protection	DC reverse-polarity protection; AC short circuit protection; islanding protection; temperature protection. Etc.	
Size	400W×580H×170D( mm)	
Weight	18kG	
Topology	Transformerless	
Internal consumption	<6W( no wind)	<1W(Night)
Operating environment temperature	-25~60°C	
Ingress protection	IP65	
Interface	RS485 and Bluetooth	
Designed lifetime	>20 years	
Operating range utility frequency (Hz)	47-52 or 57-62 (ajustable)	
Utility monitoring	Islanding protection V <sub>AC</sub> , F <sub>AC</sub> in accordance with UL 1741, G83/1, AS4777, VDE 0126-1-1	
Operating surroundings humidity	0~95%	
EMC	EN61000-6-1:2007 EN61000-6-3:2007	

Model		GCI-4.6K
Energy source	Wind	PV
Max. DC inputvoltage	600V	
MPPT operating range	30-540V	100-500V
Max. DC inputcurrent	25A	15A+15A
Number of MPP/Max stringsper MPPT	1/1	2/1
Rated output power	4.6kW	
Max. transient power	5.0kW	
Rated ACgrid voltage	230V	
AC grid voltage range	180~270V (adjustable)	
Operating phase	Single	
Rated ACgrid output current	20A	
Output power factor	>0.99	
Grid current THD	Total THD<4%	
DC injection current	<50mA	
Rated grid frequency	50/60Hz	
Max. Efficiency	>97%	
Protection	DC reverse-polarity protection; AC short circuit protection; islanding protection; temperature protection. Etc.	
Size	400W×740H×170D( mm)	
Weight	23kG	
Topology	Transformerless	
Internal consumption	<6W( no wind)	<1W(Night)
Operating environment temperature	-25~60°C	
Ingress protection	IP65	
Interface	RS485 and Bluetooth	
Designed lifetime	>20 years	
Operating range utility frequency (Hz)	47-52 or 57-62 (ajustable)	
Utility monitoring	Islanding protection V <sub>AC</sub> , F <sub>AC</sub> in accordance with UL 1741, G83/1, AS4777, VDE 0126-1-1	
Operating surroundings humidity	0~95%	
EMC	EN61000-6-1:2007 EN61000-6-3:2007	

# GCI-5K

GCI-5K is a transformerless grid tie inverter suitable for both wind and PV applications. It is light and compact for installtion, also provides immediate "ms" response time for both wind and PV system. A wide input voltage range from 100Vdc to 600Vdc, high efficiency up to 97% and computer-free programming and monitoring function make GCI-5K as a very user-friendly grid tie inverter.



Model		GCI-5K
Energy source	Wind	PV
Max. DC inputvoltage	600V	
MPPT operating range	30-540V	100-500V
Max. DC inputcurrent	25A	15A+15A
Number of MPP/Max stringsper MPPT	1/1	2/1
Rated output power	5kW	
Max. transient power	5.5kW	
Rated ACgrid voltage	230V	
AC grid voltage range	180~270V (adjustable)	
Operating phase	Single	
Rated ACgrid output current	21.74A	
Output power factor	>0.99	
Grid current THD	Total THD<4%	
DC injection current	<50mA	
Rated grid frequency	50/60Hz	
Max. Efficiency	>97%	
Protection	DC reverse-polarity protection; AC short circuit protection; islanding protection; temperature protection. Etc.	
Size	400W×740H×170D( mm)	
Weight	23kG	
Topology	Transformerless	
Internal consumption	<6W( no wind)	<1W(Night)
Operating environment temperature	-25~60°C	
Ingress protection	IP65	
Interface	RS485 and Bluetooth	
Designed lifetime	>20 years	
Operating range utility frequency (Hz)	47-52 or 57-62 (ajustable)	
Utility monitoring	Islanding protection V <sub>AC</sub> , F <sub>AC</sub> in accordance with UL 1741, G83/1, AS4777, VDE 0126-1-1	
Operating surroundings humidity	0~95%	
EMC	EN61000-6-1:2007 EN61000-6-3:2007	

# GCI-10K

A 10kW system is in a perfect size for farm or small business use. Ginlong GCI-10K inverter is extraordinarily light and compact for this capacity size, which allows a very easy mounting on the wall. This three phase invertershhas a considerably wide input voltage range and fairly good efficiency. Definitely one of the best performance-cost ratio inverters in the world at its class!



Model		GCI-10K
Energy source	Wind	PV
Max. DC inputvoltage	1000V	
MPPT operating range	30-750V	250-820V
Max. DC inputcurrent	33A	22A+15A
Number of MPP/Max stringsper MPPT	1/1	2/3
Rated output power	10kW	
Max. transient power	11kW	
Rated ACgrid voltage	400V	
AC grid voltage range	180~270V (adjustable)	
Operating phase	Three phase	
Rated ACgrid output current	14.5A	
Output power factor	>0.99	
Grid current THD	Total THD<4%	
DC injection current	<10mA	
Rated grid frequency	50/60Hz	
Max. Efficiency	>97.5%	
Protection	DC reverse-polarity protection; AC short circuit protection; islanding protection; temperature protection. Etc.	
Size	400W×800H×170D( mm)×2	
Weight	40kG	
Topology	Transformerless	
Internal consumption	<6W( no wind)	<1W(Night)
Operating environment temperature	-25~60°C	
Ingress protection	IP65	
Interface	RS485 and Bluetooth	
Designed lifetime	>20 years	
Operating range utility frequency (Hz)	47-52 or 57-62 (ajustable)	
Utility monitoring	Islanding protection V <sub>AC</sub> , F <sub>AC</sub> in accordance with UL 1741, G83/1, AS4777, VDE 0126-1-1	
Operating surroundings humidity	0~95%	
EMC	EN61000-6-1:2007 EN61000-6-3:2007	