



## Shandong Lianchuang Gaoke Automation Co., Ltd.

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**Focus on industrial automation products development  
and intelligent manufacturing**



Shandong Lianchuang Gaoke Automation Co., Ltd.





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## About us

Shandong Lianchuang Gaoke Automation Co., Ltd. was established in 2014, and its' main products are industrial frequency converters and other industrial control products.

The company is a professional manufacturer of industrial automation control products which integrates research and development, production, sales, and service. It has fully independent intellectual property rights in industrial automation drive control technology. Relying on strong research and development strength, adopting internationally advanced current vector control technology, and combining years of application experience in automation control, the company has developed domestically leading high, medium, and low voltage inverters, servo controllers, specialized and non-standard customized products. Currently, the company has products of different specifications such as 220V, 380V, 690V, and 220 to 380V, which are widely used in industries such as electric power, petrochemical, steel, oil fields, chemical engineering, building materials, textiles, printing, plastics, machine tools, mining, and other industries.

In 2021, due to the needs of the company's development, the construction of a new factory building of 8700 square meters and a research and development building of 1600 square meters in Phase I was completed and successfully settled.



The company has internationally leading SMT production lines, wave soldering lines, automatic coating lines, assembly lines, complete machine prediction systems, PCBA detection systems, and on-load aging test devices.

Currently, there are 7 regional sales centers and transfer warehouses in Xi'an, Zhengzhou, Wuhan, Shenyang, Xinjiang, and other places nationwide, with a complete sales network layout and timely / effective service response to meet customers' needs. The company has passed the recognition of national "High-Tech Enterprise", "Jinan Specialized and Special New", "Provincial Specialized and Special New", and municipal "Gazelle Enterprise". We have successively received honorary titles such as the "Industrial Enterprise Contribution Award", "Advanced Enterprise in Scientific and Technological Innovation", "Excellent Innovation and Entrepreneurship Enterprise", "One Enterprise One Technology Research and Development Center", and passed various qualification certifications such as "ISO9001 Quality System Certification", "Intellectual Property Management System Certification", "CE Certification" for Export to EU, "Software Copyright Certification", and "Integration of Industrialization and Industrialization", Which has laid a solid foundation for the subsequent development of the company.





## Lianchuang manufacturing

Lianchuang Gaoke Automation Co., Ltd. currently has 1600 square meters of administrative research and development buildings and 8700 square meters of independent industrial manufacturing bases, with a large number of automated production equipments and complete production lines for various accessories.

The workshop integrates circuit board mounting, plug-in, three proofing adhesive coating, assembly, testing, sheet metal, and heat sink production line. Large, medium, and small power assembly lines are assembled in sections, with simplified procedures and efficient operation to ensure production capacity supply.





Focus on industrial automation products development  
and intelligent manufacturing



## Company qualification

Lianchuang adheres to the service philosophy of "seeking truth and pragmatism, exploring and innovating, intelligent driving, and scientific management", strictly controls product quality, and has won the recognition of society and customers in the highly competitive market.



## Corporate Services

The Lianchuang Service Department has a group of senior frequency converter technical engineers, providing users with professional and fast solutions and technical support. The maintenance centers covering major cities across the country constitute a complete service network and a strong service team.

24 h  
online

30 min  
call

120 min  
Provide solutions



General  
headquarters



# Product line



LP300A Series  
Book structure  
frequency converter



LC410 Series  
High performance  
vector frequency converter



LC630A Series  
Economical  
frequency converter



LC640 Series  
Mini economical  
frequency converter



LP330 Series  
DTC frequency  
converter



LC880 Series  
Fans & pumps  
frequency converter



LC520 Series  
Frequency converter  
for elevator



PLC Series



LP300Q Series  
Frequency converter  
for lifting



LC400T Series  
200V to 380V  
frequency converter



LC400G Series  
Double display  
frequency converter



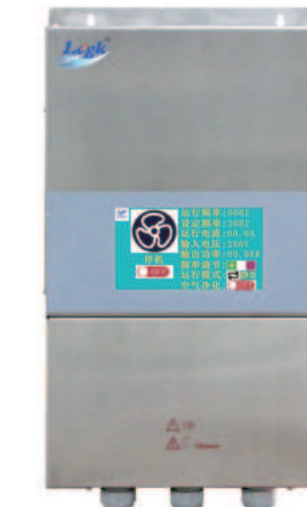
LG300A Series  
690V cabinet  
frequency converter



LP300Y Series  
PMSM frequency  
converter



LC54 Series  
IP54  
frequency converter



LCJ20 Series  
Frequency converter  
for kitchen fan



LF10 Series  
Frequency converter  
for Industrial fan



# LP300A SERIES

Book Structure High-Performance  
Vector Frequency Converter



## Product overview

The LP300A series uses a DSP control system as a platform, adopts current vector control technology, and cooperates with various protection methods. It can be applied to asynchronous motors to provide excellent driving performance. The product has greatly improved customer usability and environmental adaptability in terms of air duct design, hardware configuration, and software functions. Key components are all made from international brands such as TI, ON, and INFINEON to ensure customer experience.

## Capacity range

3PH AC 380V±15%  
1.5-400kw

## Application area

CNC machine tools, textile machinery, roots blower, lifting, plastic machinery, food machinery, petroleum

## Product features

- Book structure design, Modular structure layout ,volume is Max.60% reduced .
- High wind speed design scheme ,High protection reliability structure design
- Higher sealing degree of electronic components
- Stable and reliable performance, support double-row display, and strong adaptability
- Upper and lower straight air duct ,Wide tooth surface heat dissipation structure
- High drive torque characteristics, keep mechanical torque limit .
- EMC protection built in
- PG card expandable for close loop control.
- Powerful and supports multiple field buses
- Standard 485 communication, Can Link expandable.
- Support user programmable control card (PLC card), and the programming method is fully compatible with H1U series PLC

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)	Note
LP300A-1R5G/2R2P	3.8/5.1	1.5/2.2	200*86*185	Built in brake unit
LP300A-2R2G/4P	5.1/9	2.2/4		
LP300A-4G/5R5P	9/13	4/5.5	238*97*185	
LP300A-5R5G/7R5P	13/17	5.5/7.5		
LP300A-7R5G/11P	17/25	7.5/11	320*116*210	
LP300A-11G/15P	25/32	11/15		
LP300A-15G/18R5P	32/37	15/18.5	383*142*257	
LP300A-18R5G/22P	37/45	18.5/22		
LP300A-22G/30P	45/60	22/30		
LP300A-30G/37P	60/75	30/37	440*200*229	
LP300A-37G/45P	75/91	37/45		
LP300A-45G/55P	91/112	45/55	575*270*316	Optional built-in brake unit
LP300A-55G/75P	112/150	55/75		
LP300A-75G/90P	150/176	75/90		
LP300A-90G/110P	176/210	90/110	745*325*349	
LP300A-110G/132P	210/253	110/132		
LP300A-132G/160P	253/304	132/160		
LP300A-160G/185P	304/340	160/185	825*375*369	
LP300A-185G/200P	340/377	185/200	900*440*369	
LP300A-200G/220P	377/415	200/220		
LP300A-220G/250P	415/465	220/250		
LP300A-250G/280P	465/520	250/280	1025*526*369	
LP300A-280G/315P	520/585	280/315		
LP300A-315G/355P	585/650	315/355		
LP300A-355G/400P	650/725	355/400	1000*608*369	
LP300A-400G/450P	725/820	400/450		
Note : LP300A series panel opening size: 133.5mm high and 87.5mm wide				



# LC410 SERIES

High Performance Vector Frequency Converter



### Product overview

LC410 model is an upgrade model of LC400. Based on DSP control system, adopt current vector control technology and cooperate with various protection methods. It supports double line screen display, main components used are all made of international brands. The excellent hardware configuration and mature software installed have been proven to be secure and stable by thousands of clients.

### Capacity range

3PH AC 380V±15%  
1.5-500kw

### Application area

CNC machine tools, forging machine tools, textile machinery, Roots blower, lifting and lifting, plastic machinery, petroleum, food machinery

### Product features

- Upgrade version of LC400. Universal frequency converter, covering more than 90% applications
- Double line Screen panel appearance.Panel Removable
- Perfect software and hardware protection function. The output frequency can reach to 500Hz, solved the traditional gear limit problem
- Powerful current vector control performance, low noise, excellent energy-saving effect
- Speed tracking, Instantaneous stop, 0.1S acceleration and deceleration, 22G and below are with built-in brake unit
- 47 kinds of fault detection protection are set to effectively ensure the stable and reliable operation of the system
- Extensive expansion card options
- Powerful and supports multiple field buses
- Support asynchronous motor control
- Support user programmable control card (PLC card), and the programming method is fully compatible with H1U series PLC

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)
LC410-1R5G/2R2P-4T	3.8/5.1	1.5/2.2	186*125*180
LC410-2R2G/4R0P-4T	5.1/9	2.2/4	
LC410-4GS/5R5P-4T	9/13	4/5.5	
LC410-4G/5R5P-4T	9/13	4/5.5	248*160*197
LC410-5R5G/7R5P-4T	13/17	5.5/7.5	
LC410-7R5G/11P-4T	17/25	7.5/11	
LC410-11GS/15P-4T	25/32	11/15	
LC410-11G/15P-4T	25/32	11/15	322*208*204
LC410-15G/18R5P-4T	32/37	15/18.5	
LC410-18R5G/22P-4T	37/45	18.5/22	
LC410-22G/30P-4T	45/60	22/30	
LC410-30G/37P-4T	60/75	30/37	463*285*243
LC410-37G/45P-4T	75/91	37/45	
LC410-45G/55P-4T	91/112	45/55	600*385*280
LC410-55G/75P-4T	112/150	55/75	
LC410-75G/90P-4T	150/176	75/90	
LC410-90G/110P-4T	176/210	90/100	700*473*322
LC410-110G/132P-4T	210/253	100/132	
LC410-132G/160P-4T	253/304	132/160	
LC410-160G/185P-4T	304/340	160/185	930*579*395
LC410-185G/200P-4T	340/377	185/200	
LC410-200G/220P-4T	377/426	200/220	
LC410-220G/250P-4T	426/465	220/250	1060*650*395
LC410-250G/280P-4T	465/520	250/280	
LC410-280G/315P-4T	520/585	280/315	
LC410-315G/355P-4T	585/650	315/355	
LC410-355G/400P-4T	650/725	355/400	1360*800*405
LC410-400G/450P-4T	725/820	400/450	
LC410-450G/500P-4T	820/860	450/500	
LC410-500G/550P-4T	860/950	500/550	1175*840*415
Note : LP410 series panel opening size: 90mm high and 82mm wide			



# LC400G SERIES

Double Display Type Frequency Converter



### Product overview

LC400G model is an upgrade model of LC400 display panel. Double line screen panel appearance. Based on DSP control system, adopt current vector control technology and cooperate with various protection methods. The excellent hardware configuration and mature software installed have been proven to be secure and stable by thousands of clients.

### Capacity range

3PH AC 380V $\pm$ 15%  
1.5-500kw

### Application area

CNC machine tools, Forging Machine, textile machinery ,Roots Blower Lifting, Plastic machinery , petroleum , Food machinery,etc.

### Product features

- Double line Screen panel appearance. Panel Removable
- Universal frequency converter, covering more than 90% applications
- Perfect software and hardware protection function. The output frequency can reach to 500Hz, solved the traditional gear limit problem
- Powerful current vector control performance, low noise, excellent energy-saving effect
- Speed tracking, Instantaneous stop, 0.1S acceleration and deceleration, 22G and below are with built-in brake unit
- 47 kinds of fault detection protection are set to effectively ensure the stable and reliable operation of the system
- Extensive expansion card options
- Powerful and supports multiple field buses
- Support asynchronous motor control
- Support user programmable control card (PLC card), and the programming method is fully compatible with H1U series PLC

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)
LC400G-1R5G/2R2P-4T	3.8/5.1	1.5/2.2	186*125*177
LC400G-2R2G/4R0P-4T	5.1/9	2.2/4	
LC400G-4GS/5R5P-4T	9/13	4/5.5	
LC400G-4G/5R5P-4T	9/13	4/5.5	248*160*192
LC400G-5R5G/7R5P-4T	13/17	5.5/7.5	
LC400G-7R5G/11P-4T	17/25	7.5/11	
LC400G-11GS/15P-4T	25/32	11/15	
LC400G-11G/15P-4T	25/32	11/15	322*208*200
LC400G-15G/18R5P-4T	32/37	15/18.5	
LC400G-18R5G/22P-4T	37/45	18.5/22	
LC400G-22G/30P-4T	45/60	22/30	
LC400G-30G/37P-4T	60/75	30/37	463*285*243
LC400G-37G/45P-4T	75/91	37/45	
LC400G-45G/55P-4T	91/112	45/55	600*385*280
LC400G-55G/75P-4T	112/150	55/75	
LC400G-75G/90P-4T	150/176	75/90	
LC400G-90G/110P-4T	176/210	90/100	700*473*322
LC400G-110G/132P-4T	210/253	100/132	
LC400G-132G/160P-4T	253/304	132/160	
LC400G-160G/185P-4T	304/340	160/185	930*579*395
LC400G-185G/200P-4T	340/377	185/200	
LC400G-200G/220P-4T	377/426	200/220	
LC400G-220G/250P-4T	426/465	220/250	1060*650*395
LC400G-250G/280P-4T	465/520	250/280	
LC400G-280G/315P-4T	520/585	280/315	
LC400G-315G/355P-4T	585/650	315/355	
LC400G-355G/400P-4T	650/725	355/400	1360*800*405
LC400G-400G/450P-4T	725/820	400/450	
LC400G-450G/500P-4T	820/860	450/500	
LC400G-500G/550P-4T	860/950	500/550	1175*840*415
Note : LP400G series panel opening size: 147mm high and 79mm wide			



# LC630A SERIES

Economical Vector Frequency Converter



### Product overview

The LC630A series frequency converter is a general purpose high performance model for controlling small power Ac Asynchronous motors.the configuration of hardware is designed to be on economic basis but with strong power.It's a most popular model for economic frequency converters due to the good performance and low price.

### Capacity range

3PH 380V±15%	1PH 220V±15%
0.75-11kw	0.4-5.5kw

### Application area

Textile, paper making, wire drawing machines, packaging, food, fans, water pumps

### Product features

- 220V input 0.75-5.5KW available
- 380V input 0.75-11KW available.
- Compact good design
- Good dynamic performance
- Super overload capacity
- Rich combination functions
- 485 communication available
- Stable performance

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)
1PH AC 220V±15%			
LC630A-0R4G/0R7P-2T	2.3/4	0.4/0.75	170*85*140
LC630A-0R7G/1R5P--2T	4/7	0.75/1.5	
LC630A-1R5G/2R2P-2T	7/9.6	1.5/2.2	
LC630A-2R2G/4P-2T	9.6/17	2.2/4	
LC630A-4G/5R5P-2T	17/24	4/5.5	245*125*170
LC630A-5R5G/7R5P-2T	24/30	5.5/7.5	
3PH AC 380V±15%			
LC630A-0R75G/1R5P-4T	2.5/4.2	0.75/1.5	170*85*140
LC630A-1R5G/2R2P-4T	3.8/5.1	1.5/2.2	
LC630A-2R2G/4P-4T	5.8/10	2.2/4	
LC630A-4G/5R5P-4T	10/13	4/5.5	194*95*150
LC630A-5R5G/7R5P-4T	13/17	5.5/7.5	
LC630A-7R5G/11P-4T	17/25	7.5/11	245*125*170
LC630A-11G/15P-4T	25/32	11/15	
Note : LC630A series panel opening size: 115mm high and 85mm wide			



# LC640 SERIES

Mini Economical Vector Frequency Converter



### Product overview

The LC640 series frequency converter is a newly designed model to satisfy simple task but strong performance required applications. The volume is small and configurations are based on economic basis. The constant pressure water supply function makes it widely used in water pump applications.

### Capacity range

3PH 380V±15%      1PH 220V±15%  
0.75-5.5kw      0.75-2.2kw

### Application area

Textile, paper making, wire drawing machines, packaging, food, fans, water pump

### Product features

- Single Phase AC 220V ±15% and three phase AC 380V±15% available
- Mini type. Most Economic design at very competitive price
- Compact design
- Constant pressure water supply function
- RS485 communication
- Good dynamic performance
- Super overload capacity
- Rich combination functions
- Stable performance

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)
1PH AC 220V±15%			
LC640-0R75G-2T	4	0.75	142*63*104.5
LC640-1R5G-2T	7	1.5	
LC640-2R2G-2T	9.6	2.2	
3PH AC 380V±15%			
LC640-0R75G-4T	2.1	0.75	142*63*104.5
LC640-1R5G-4T	3.8	1.5	
LC640-2R2G-4T	5.1	2.2	
LC640-4G-4T	9	4	212*65*126.4
LC640-5R5G-4T	13	5.5	
Note : LC640 series panel opening size: 75.4mm high and 49.4mm wide			



### External keyboard

Opening size 75.4mm high and 49.4mm wide





# LC880 SERIES

Fans and Pumps Vector Frequency Converter



## Product overview

The 880 series inverter is the latest current vector inverter developed by our company, which improves low-speed torque and response speed. In terms of software capabilities, it improves the functions of automatic tuning, automatic control, online conversion, and speed tracking of motor parameters. Built-in PID controller and simple PLC. Various fault monitoring and rich terminal configurations meet various industrial transmission requirements.

## Capacity range

3PH AC 380V±15%  
1.5-200kw

## Application area

Food machinery, woodworking machinery, packaging machinery, fans and pumps

## Product features

- Special purpose of Water Pumps and Fans
- MPPT setting, Solar Pump Watering Mode
- Powerful PID adjustment function, removable control panel, convenient for using.
- Built in multiple water supply application macros
- Stepless speed regulation leaves the traditional gear limit, and 0-500Hz can be adjusted arbitrarily
- Powerful current vector control performance, low noise, excellent energy-saving effect
- 485 communication interface, supporting MODBUS international standard communication protocol

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)
LC880-1R5G/2R2P	3.8/5.1	1.5/2.2	212*95*154
LC880-2R2G/4P	5.1/8.5	2.2/4	
LC880-4G/5R5P	8.5/13	4/5.5	
LC880-5R5G/7R5P	13/16	5.5/7.5	
LC880-7R5G/11P	16/24	7.5/11	240*140*180.5
LC880-11G/15P	24/32	11/15	
LC880-15G/18R5P	32/36	15/18.5	322*205*199
LC880-18R5G/22P	36/45	18.5/22	
LC880-22G/30P	45/60	22/30	
LC880-30G/37P	60/75	30/37	
LC880-37G/45P	75/91	37/45	490*270*213
LC880-45G/55P	91/112	45/55	
LC880-55G/75P	112/150	55/75	565*320*283
LC880-75G/90P	150/176	75/90	620*340*294
LC880-90G/110P	176/210	90/110	
LC880-110G/132P	210/253	110/132	660*400*313
LC880-132G/160P	253/304	132/160	
LC880-160G/185P	304/340	160/185	780*530*344
LC880-185G/200P	340/377	185/200	
LC880-200G/220P	377/426	200/220	

Note : LP880 series panel opening size: 90mm high and 82mm wide



# LP330 SERIES

Direct Torque Control Frequency Converter  
(LCD Display)



### Product Overview

The LP330 series has significantly improved usability, maintainability, environmental friendliness, installation space, and design standards from a customer perspective while maintaining excellent basic performance and functionality. High standard design in the industry, based on years of persistent pursuit of driving technology and accumulated experience in multiple industry applications, continuously leading the industry; High performance, high quality, high power density design, more in line with the user's personal experience.

### Capacity range

3PH AC 380V±15%  
1.5-400kw

### Application area

CNC machine tools, textile machinery, roots blower, lifting, plastic machinery, food machinery, petroleum

### Product features

- LCD Display, switch for AC Induction Motor and PMSM motor.
- The industry first promotes IGBT junction temperature real-time monitoring technology, accurately calculating IGBT junction temperature and effectively protecting IGBT
- The sealed design of the entire machine with independent heat dissipation ducts reduces the impact of harsh environments on electronic devices
- The industry is the first to promote full product heavy-duty (120% rated load) high temperature (50 °C)aging testing and inspection, strictly ensuring product quality.

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)	Note	
LP330-1R5G/2R2P	3.8/5.1	1.5/2.2	200*86*185	Built in brake unit	
LP330-2R2G/4P	5.1/9	2.2/4			
LP330-4G/5R5P	9/13	4/5.5	238*97*185		
LP330-5R5G/7R5P	13/17	5.5/7.5			
LP330-7R5G/11P	17/25	7.5/11	320*116*210		
LP330-11G/15P	25/32	11/15			
LP330-15G/18R5P	32/37	15/18.5	383*142*257		
LP330-18R5G/22P	37/45	18.5/22			
LP330-22G/30P	45/60	22/30			
LP330-30G/37P	60/75	30/37	440*200*229		
LP330-37G/45P	75/91	37/45			
LP330-45G/55P	91/112	45/55	575*270*316	Optional built-in brake unit	
LP330-55G/75P	112/150	55/75			
LP330-75G/90P	150/176	75/90			
LP330-90G/110P	176/210	90/110	745*325*349		
LP330-110G/132P	210/253	110/132			
LP330-132G/160P	253/304	132/160			
LP330-160G/185P	304/340	160/185	825*375*369		
LP330-185G/200P	340/377	185/200	900*440*369		
LP330-200G/220P	377/415	200/220			
LP330-220G/250P	415/465	220/250			
LP330-250G/280P	465/520	250/280	1025*526*369		
LP330-280G/315P	520/585	280/315			
LP330-315G/355P	585/650	315/355			
LP330-355G/400P	650/725	355/400	1000*608*369		
LP330-400G/450P	725/820	400/450			
Note : LP330 series panel opening size: 133.5mm high and 87.5mm wide					



# LP300Q SERIES

Special Frequency Converter for Lifting



### Product overview

LP300Q is a crane specific frequency converter developed by our company, which can perform V/F control or vector control on AC asynchronous motors. It is suitable for crane equipment with high starting torque, simple debugging, and can achieve 16 speed operation, closed-loop process control, and networking functions of the system.

### Capacity range

3PH AC 380V±15%  
1.5-400kw

### Application area

CNC machine tools, textile machinery, roots blower, lifting, plastic machinery, food machinery, petroleum

### Product features

- Built in professional lifting specialized brake timing control. Ensure smooth start and stop of the load
- When the bus voltage continues to be low, reduce the given frequency of the load to maintain the normal output of the frequency converter, and avoid undervoltage faults during operation
- When the bus voltage momentarily decreases or there is a power outage, the frequency converter quickly stops and restricts the continuation to ensure that the hook does not slip
- Automatically calculate the highest achievable output frequency by detecting the output torque of the frequency converter

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)	Note
LP300Q-1R5G/2R2P	3.8/5.1	1.5/2.2	200*86*185	Built in brake unit
LP300Q-2R2G/4P	5.1/9	2.2/4		
LP300Q-4G/5R5P	9/13	4/5.5	238*97*185	
LP300Q-5R5G/7R5P	13/17	5.5/7.5		
LP300Q-7R5G/11P	17/25	7.5/11	320*116*210	
LP300Q-11G/15P	25/32	11/15		
LP300Q-15G/18R5P	32/37	15/18.5	383*142*257	
LP300Q-18R5G/22P	37/45	18.5/22		
LP300Q-22G/30P	45/60	22/30		
LP300Q-30G/37P	60/75	30/37	440*200*229	
LP300Q-37G/45P	75/91	37/45		
LP300Q-45G/55P	91/112	45/55	575*270*316	
LP300Q-55G/75P	112/150	55/75		
LP300Q-75G/90P	150/176	75/90		
LP300Q-90G/110P	176/210	90/110	745*325*349	
LP300Q-110G/132P	210/253	110/132		
LP300Q-132G/160P	253/304	132/160		
LP300Q-160G/185P	304/340	160/185	825*375*369	
LP300Q-185G/200P	340/377	185/200	900*440*369	
LP300Q-200G/220P	377/415	200/220		
LP300Q-220G/250P	415/465	220/250		
LP300Q-250G/280P	465/520	250/280	1025*526*369	
LP300Q-280G/315P	520/585	280/315		
LP300Q-315G/355P	585/650	315/355		
LP300Q-355G/400P	650/725	355/400	1000*608*369	
LP300Q-400G/450P	725/820	400/450		
Note : LP300Q series panel opening size: 133.5mm high and 87.5mm wide				



# LC400T SERIES

220V Input--380V Output Frequency Converter



### Product overview

LC400T series 220V to 380V frequency converters are specially developed by us for occasions where three-phase power is lacking. With multiple protection methods and excellent driving performance, they can solve the difficulty of users lacking 380V power. The wiring connecting is simple and easy to understand, and the operation is convenient and practical.

### Capacity range

INPUT : 1PH AC 220V±15%  
OUTPUT : 3PH AC 380V±15%  
1.5-45kw

### Application area

Paper making, wire drawing machines, textile machinery, packaging machinery, food machinery, fans and pumps

### Product features

- Good hardware configuration and mature software installed proven to be secure and stable
- Good and stable performance
- Comprehensive protection functions
- Fast response speed, easy to control
- Excellent low-frequency counter output
- High control accuracy
- Convenient wiring

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)
LC400T-1R5G/2R2G	3.8/5.1	1.5/2.2	186*125*177
LC400T-2R2G/4R0P	5.1/9	2.2/4	
LC400T-4R0G/5R5P	9/13	4/5.5	248*160*192
LC400T-5R5G/7R5P	13/17	5.5/7.5	
LC400T-7R5P/11P	17/25	7.5/11	
LC400T-11G/15P	25/32	11/15	322*208*200
LC400T-15G/18R5P	32/37	15/18.5	
LC400T-18R5G/22P	37/45	18.5/22	
LC400T-22G/30P	45/60	22/30	463*285*243
LC400T-30G/37P	60/75	30/37	
LC400T-37G/45P	75/91	37/45	
LC400T-45G/55P	91/112	45/55	600*385*280
Note : LC400T series panel opening size: 147mm high and 79mm wide			



# LG200A SERIES

Cabinet Type High-performance  
Vector Frequency Converter



### Product overview

LG200A is the latest high-performance cabinet type vector frequency converter launched by our company in response to market demand. It can meet the requirements of various industries with high performance, high flexibility, simple operation, and complete functions. With dual digital tube display, it can meet the different needs of customers.

### Capacity range

3PH AC 380V±15%  
110-1000kw

### Application area

Textile machinery, Roots blower, plastic machinery, petroleum, food machinery, paper making

### Product features

- Imported IGBT Infineon Module, with strong carrying capacity and good stability
- Powerful current vector control performance, low noise and excellent energy-saving effect
- Standard built-in reactor, vertical cabinet design, independent air duct heat dissipation
- Humanized design, intelligent control, LED panel dual display, clear and intuitive
- Perfect multiple protection measures for over current, over voltage and lack of voltage
- RS485 serial communication interface, supporting MODBUS international standard communication protocol

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)	Note	
LG200A-110G/132P	210/253	110/132	830*380*335		Incoming method: bottom in and bottom out
LG200A-132G/160P	253/304	132/160			
LG200A-160G/185P	304/340	160/185	1025*525*350	Built in DC reactor	
LG200A-185G/200P	340/377	185/200			
LG200A-200G/220P	377/426	200/220			
LG200A-220G/250P	426/465	220/250			
LG200A-250G/280P	465/520	250/280			
LG200A-280G/315P	520/585	280/315	1150*555*355		
LG200A-315G/355P	585/650	315/355			
LG200A-355G/400P	650/725	355/400			
LG200A-400G/450P	725/820	400/450	1450*650*390		
LG200A-450G/500P	820/860	450/500			
LG200A-500G/560P	860/950	500/560			1600*750*500
LG200A-560G/630P	950/1100	560/630			
LG200A-630G/710P	1100/1250	630/710	1800*800*700	Built in AC reactor	
LG200A-710G/750P	1250/1379	710/750			
LG200A-750G/800P	1379/1420	750/800	1855*1000*800	Built in DC reactor	
LG200A-800G/900P	1420/1610	800/900			
LG200A-900G/1000P	1610/1790	900/1000			
LG200A-1000G/1100P	1790/1960	1000/1100			
Note : LG200A series panel opening size: 133.5mm high and 87.5mm wide					



# LG300A SERIES

690V Input Cabinet Type Strong Power  
Vector Frequency Converter



### Product overview

LG300A is an upgrade high power model of LG200A with 690V voltage input. The main spare parts used are mostly famous brand imported to gurantee the durable performance. The cabinet design and strong powerful performance can satisfy those applications with higher demanding.

### Capacity range

3PH AC 690V±15%  
45-1200kw

### Application area

Textile machinery, Roots blower, plastic machinery, petroleum, food machinery, paper making

### Product features

- 690V Input Voltage
- Power from 45kw-1200kw available
- Imported IGBT Infineon Module, with strong carrying capacity and good stability.
- Powerful current vector control performance, low noise and excellent energy-saving effect.
- Standard built-in reactor, vertical cabinet design, independent air duct heat dissipation.
- Humanized design, intelligent control, LED panel dual display, clear and intuitive.
- Perfect multiple protection measures for over current, over voltage and lack of voltage.
- RS485 serial communication interface, supporting MODBUS international standard communication protocol

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)	Note	
LG300A-45G/55P	50/65	45/55	655*270*315	Incoming method: bottom in and bottom out	Built in DC reactor
LG300A-55G/75P	65/86	55/75			
LG300A-75G/90P	86/100	75/90			
LG300A-90G/110P	100/120	90/110	745*325*350		
LG300A-110G/132P	120/150	110/132			
LG300A-132G/160P	150/175	132/160	830*380*335		
LG300A-160G/200P	175/215	160/200			
LG300A-200G/220P	215/245	200/220			
LG300A-220G/250P	245/260	220/250			
LG300A-250G/280P	260/299	250/280			
LG300A-280G/315P	299/330	280/315	1150*555*355		
LG300A-315G/355P	330/374	315/355			
LG300A-355G/400P	374/410	355/400			
LG300A-400G/450P	410/465	400/450	1450*650*390		
LG300A-450G/500P	465/550	450/500			
LG300A-500G/560P	550/575	500/560			
LG300A-560G/630P	575/680	560/630	1600*750*500		
LG300A-630G/710P	680/712	630/710			
LG300A-710G/800P	712/802	710/800			
LG300A-800G/900P	802/897	800/900			
LG300A-900G/1000P	897/1008	900/1000	1855*1000*800		
LG300A-1000G/1100P	1008/1164	1000/1100			
LG300A-1100G/1200P	1164/1201	1100/1200			
LG300A-1200G/1300P	1201/1310	1200/1300			
Note : LG300A series panel opening size: 133.5mm high and 87.5mm wide					



# LP300Y SERIES

Special Frequency Converter for  
Permanent Magnet Synchronous Motor



### Product overview

The LP300Y series permanent magnet synchronous controller is mainly used to control and adjust the speed and torque of permanent magnet synchronous motors, and is a technology upgrade product of the LP300 series. LP300Y adopts high-performance vector control technology, with low speed and high torque output, good dynamic characteristics, strong overload capacity, added user programmable function and background monitoring software, communication bus function, support for multiple PG cards, etc. The combination function is rich and powerful, with stable performance, and can be used for driving various automated production equipment.

### Capacity range

3PH AC 380V±15%  
1.5-400kw

### Application area

CNC machine tools, textile machinery, roots blower, lifting, plastic machinery, food machinery, petroleum

### Product features

- Suitable for permanent magnet synchronous motor drive control
- High accuracy of self tuning motor parameters
- High stability accuracy and wide speed range
- Low speed with high torque and low torque ripple
- Can achieve complete V/F separation and semi separation
- Can achieve open loop and closed-loop control
- Supports multiple PG cards
- Standard RS485 communication interface

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)	Note	
LP300Y-1R5G/2R2P	3.8/5.1	1.5/2.2	200*86*185	Built in brake unit	
LP300Y-2R2G/4P	5.1/9	2.2/4			
LP300Y-4G/5R5P	9/13	4/5.5	238*97*185		
LP300Y-5R5G/7R5P	13/17	5.5/7.5			
LP300Y-7R5G/11P	17/25	7.5/11	320*116*210		
LP300Y-11G/15P	25/32	11/15			
LP300Y-15G/18R5P	32/37	15/18.5	383*142*257		
LP300Y-18R5G/22P	37/45	18.5/22			
LP300Y-22G/30P	45/60	22/30			
LP300Y-30G/37P	60/75	30/37	440*200*229		
LP300Y-37G/45P	75/91	37/45			
LP300Y-45G/55P	91/112	45/55	575*270*316	Optional built-in brake unit	
LP300Y-55G/75P	112/150	55/75			
LP300Y-75G/90P	150/176	75/90			
LP300Y-90G/110P	176/210	90/110	745*325*349		
LP300Y-110G/132P	210/253	110/132			
LP300Y-132G/160P	253/304	132/160			
LP300Y-160G/185P	304/340	160/185	825*375*369		
LP300Y-185G/200P	340/377	185/200	900*440*369		
LP300Y-200G/220P	377/415	200/220			
LP300Y-220G/250P	415/465	220/250			
LP300Y-250G/280P	465/520	250/280	1025*526*369		
LP300Y-280G/315P	520/585	280/315			
LP300Y-315G/355P	585/650	315/355			
LP300Y-355G/400P	650/725	355/400	1000*608*369		
LP300Y-400G/450P	725/820	400/450			
Note : LP300Y series panel opening size: 133.5mm high and 87.5mm wide					



# LP330 SERIES

Spindle Servo Motor Combination



### Product Overview

The LP330 spindle servo motor set is a specialized servo driver developed for the characteristics of the high-speed machining machine tool industry. The spindle servo driver supports high-speed permanent magnet synchronous servo spindles, which can achieve precise dynamic response control and meet the process requirements of drilling, grinding, engraving and milling, and turning and milling composite. It integrates high-speed command input and feedback output interfaces, which can be combined with mainstream controllers in the market to form machine tool electronic control systems, and can also be seamlessly linked with CNC systems with open architecture.

### Capacity range

3PH AC 380V±15%  
1.5-75kw

### Application area

CNC machine tools, machining centers, and mechanical equipment that requires positioning

### Product features

- Full closed-loop control of current, speed, and position.
- Adopting multi degree of freedom and nonlinear control algorithms to achieve high dynamic response and high-precision current, speed, and position control.
- Supports high-speed pulse+directional input, with analog, network, and control interfaces.
- Supports high-precision sine and cosine encoders, rotary transformer speed feedback, with a single turn resolution of up to 24 bits.
- Supports high-speed local IO and remote expansion IO.



Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)	Note
LP330-1R5G/2R2P	3.8/5.1	1.5/2.2	200*86*185	Built in brake unit
LP330-2R2G/4P	5.1/9	2.2/4		
LP330-4G/5R5P	9/13	4/5.5	238*97*185	
LP330-5R5G/7R5P	13/17	5.5/7.5		
LP330-7R5G/11P	17/25	7.5/11	320*116*210	
LP330-11G/15P	25/32	11/15		
LP330-15G/18R5P	32/37	15/18.5	383*142*257	
LP330-18R5G/22P	37/45	18.5/22		
LP330-22G/30P	45/60	22/30		
LP330-30G/37P	60/75	30/37	440*200*229	
LP330-37G/45P	75/91	37/45		
LP330-45G/55P	91/112	45/55	575*270*316	Optional built-in brake unit
LP330-55G/75P	112/150	55/75		
LP330-75G/90P	150/176	75/90		
Note : LP330 series panel opening size: 133.5mm high and 87.5mm wide				



# LC54 SERIES

IP54 High-protection Level Advanced Frequency Converter



### Product overview

The LC54 series high protection level frequency converter reaches IP54 protection level, and the PCB adopts industrial high protection level UV coating to enhance resistance. Specially designed for harsh environments such as high corrosion, high dust, high humidity, high temperature, and heavy pollution, it is sturdy, durable, and highly protective.

### Capacity range

3PH 380V±15%  
1.5-200kw

### Application area

CNC machine tools, textile machinery, roots blower, lifting, plastic machinery, food machinery, petroleum

### Product features

- Fully enclosed chassis design, using three anti paint, waterproof joints, waterproof fans, etc., waterproof, dustproof, oil stain resistant, corrosion-resistant, suitable for use in harsh environments
- Equipped with various motor protection functions
- Smooth operation, low noise, and excellent energy-saving effect
- Standard RS485 communication interface

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)
LC54-0R75G/1R5P-4T	2.1/3.8	0.75/1.5	255*160*184
LC54-1R5G/2R2P-4T	3.8/5.1	1.5/2.2	
LC54-2R2G/4P-4T	5.1/9.0	2.2/4	
LC54-4G/5R5P-4T	9.0/13	4/5.5	305*200*181
LC54-5R5G/7R5P-4T	13/17	5.5/7.5	
LC54-7R5G/11P-4T	17/25	7.5/11	
LC54-11G/15P-4T	25/32	11/15	380*223*204
LC54-15G/18R5P-4T	32/37	15/18.5	
LC54-18R5G/22P-4T	37/45	18.5/22	
LC54-22G/30P-4T	45/60	22/30	
LC54-30G/37P-4T	60/75	30/37	483*316*224
LC54-37G/45P-4T	75/91	37/45	
LC54-45G/55P-4T	91/112	45/55	
LC54-55G/75P-4T	112/150	55/75	600*386*264
LC54-75G/90P-4T	150/176	75/90	
LC54-90G/110P-4T	176/210	90/110	
LC54-110G/132P-4T	210/253	110/132	700*475*307
LC54-132G/160P-4T	253/304	132/160	
LC54-160G/185P-4T	304/340	160/185	
LC54-185G/200P-4T	340/377	185/200	930*580*374
LC54-200G/220P-4T	377/415	200/220	

Note : LC54 series panel opening size: 147mm high and 79mm wide



# LC520 SERIES

Frequency Converter for Elevator



### Capacity range

3PH AC 380V±15%  
7.5-18.5kw

### Application area

Elevator control

### Product features

- Suitable for driving control of permanent magnet synchronous motors and asynchronous motors, with multiple rotary encoder interfaces.
- Equipped with motor parameter self-tuning function, it can perform static tuning or complete tuning.
- Support multi segment speed and analog speed setting.
- Flexible start curve processing, multi segment S curve setting, and 4-level acceleration and deceleration time setting can ensure good elevator operation comfort. It has a simple and practical battery operation function, and can complete power outage self rescue with a 48V power input.
- It has various elevator specific functions such as enabling detection, holding brake contactor control, output contactor control, forced deceleration judgment, overspeed protection, speed deviation detection, early door opening, contact adhesion detection, motor overheating detection, starting pre torque compensation, etc., making elevator control simple and feasible.

Specification and model	Rated input current(A)	Rated output current(A)	Height(H) Width(W) Depth(D) (mm)
LC520-7.5KW	20.5	18	248*160*183
LC520-11KW	29	27	322*208*192
LC520-15KW	36	33	
LC520-18.5KW	41	39	

# PLC SERIES

New and Original PLC Controller Module



### Product overview

The SR/ST CPU module integrates one Ethernet interface and one RS485 interface. By expanding the CM01 signal board or EM DP01 module, the number of communication ports can be increased to a maximum of four, which can meet the communication needs of small automation equipment with touch screens, frequency converters, and other third-party devices.

### Application area

Labeling machinery,Pillow packing machinery, Woodworking machinery etc.

### Product features

- Rich models with more choices
- Option extension, precise customization
- High speed chip with excellent performance
- Ethernet connectivity, economic convenience
- Three axis pulse, free to move
- Universal SD card for quick updates
- Software friendly, programming efficient
- Perfect integration, seamless integration

Model	SR20	SR30	SR40	SR60
On-board digital I/O	12 Input/8 Output	18 Input/12 Output	24 Input/16 Output	36 Input/24 Output
High speed counting	6 Routes			
High speed pulse output	-			
Number of communication ports	2~4			
Expand the number of horizontal blocks	6			
Number of expansion signal boards	1			
Maximum switch quantity I/O	216	226	236	256
Maximum analog I/O	49			



# LCJ20 SERIES

Kitchen Fan Specific Frequency Converter



### Capacity range

3PH AC 380V±15%  
4-22kw

### Application area

Kitchen fan

### Product features

- Stainless steel wire drawing box, enhancing overall aesthetics
- Smooth start stop reduces wear and tear
- Eliminate motor electromagnetic noise and reduce system noise
- Multiple protections such as missing items, short circuits, overload, insulation damage, etc
- Tailored for the kitchen, more suitable and economical
- Touch screen design, intelligent energy-saving of 20%, more technological and intelligent
- Intelligent mute, quieter, more comfortable, and more environmentally friendly

Specification and model	Rated output current(A)	Adaptive motor power(kw)	Height(H) Width(W) Depth(D) (mm)
LCJ20-4KW	9.5	4	500*300*186
LCJ20-5.5KW	13	5.5	
LCJ20-7.5KW	17	7.5	
LCJ20-11KW	25	11	
LCJ20-15KW	32	15	
LCJ20-18.5KW	38	18.5	
LCJ20-22KW	46	22	

# LF10 SERIES

Permanent Magnet Industrial Fan Specific Frequency Converter



### Capacity range

3PH AC 380V±15%  
0.75-2.2kw

1PH AC 220V±15%  
0.75-1.5kw

### Application area

Industrial fan

### Product features

- The motor starts and stops smoothly, running smoothly
- Reduce power consumption and reduce full load current
- Reduce the temperature rise of the motor
- Quiet, comfortable, and low noise.

Specification and model	Rated output current(A)	Input parameter	Output parameter	Height(H) Width(W) Depth(D) (mm)
1PH AC 220V±15%				
LF10-0.75KW-2T	0.75	50/60Hz	4A, 0-300Hz	196.5*110.5*76.5
LF10-1.5KW-2T	1.5	50/60Hz	7A, 0-300Hz	
3PH AC 380V±15%				
LF10-0.75KW-4T	0.75	50/60Hz	2.1A, 0-300Hz	265*170*131
LF10-1.5KW-4T	1.5	50/60Hz	3.8A, 0-300Hz	
LF10-2.2KW-4T	2.2	50/60Hz	5.1A, 0-300Hz	



# Application cases

