



## <China Drive Electric Co.,Ltd>

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# VFD for HVLS (High Volume Low Speed) Fan

# COMPANY INTRODUCTION

China Drive Electric Co., LTD is located in Quzhou City, Zhejiang Province. The company advocates the business philosophy of gathering talents for win-win cooperation, and focuses on establishing intelligent manufacturing industry chain to provide customized intelligent production overall solutions.

The company was founded in 2011, after years of independent research and development and innovation, while obtaining dozens of authorized patents, it has also been awarded the honorary title of "National High-tech Enterprise".

Through years of production accumulation and R&D innovation, the company has professional R&D, design and manufacturing experience, accumulated and formed a new vector controller technology, to achieve product performance, control, safety and other indicators of improvement, especially in permanent magnet synchronous control, excellent performance.

The production management system, which has been tested by ten years of development, has enabled China Drive to complete the automatic drive production line and ensure the supply efficiency and quality. The global strategic layout further ensures that China Drive Electric Company can tailor systematic intelligent manufacturing products and solutions for customers around the world at any time, and provide efficient services throughout the process.

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# PRODUCT HISTORY



## First Generation



### Industrial electric control box

According to customer needs, the switchgear, controller and auxiliary equipment are combined to meet the requirements of the normal operation of industrial ceiling fan systems.  
**Power range:** 0.75KW/1.5KW/2.2KW  
**Appearance size:** customisable



## Third Generation

### Commerce-specific models--201G



A product that integrates drivers, switching power supplies, lighting and special solution development. Suitable for commercial ceiling fans, permanent magnet synchronous fans, etc.  
**Power range:** 0.75KW  
**Appearance size:** 270\*155\*108mm



## Second Generation



### Industrial-specific models--200G

A product specially developed by integrating frequency converter, LCD screen, air switch, knob switch and speed governor. Intelligent control, high carrier and low noise, Support permanent magnet synchronous drive. Suitable for large industrial ceiling fans (permanent magnet synchronous, asynchronous induction motors), commercial ceiling fans, mobile fans, vertical fans, permanent magnet fans, etc.  
**Power range:** 0.75KW/1.5KW/2.2KW  
**Dimensions:** 270\*155\*108mm

### Industrial-specific models--220G

An economical product designed for industrial fans. Comprehensive functions, cost-effective, stable performance. Suitable for large industrial ceiling fans (permanent magnet synchronous, asynchronous induction motors), commercial ceiling fans, mobile fans, vertical fans, permanent magnet fans, etc.  
**Power range:** 0.75KW/1.5KW/2.2KW  
**Dimensions:** 215\*155\*90mm (reference)

### Commerce-specific models--210G



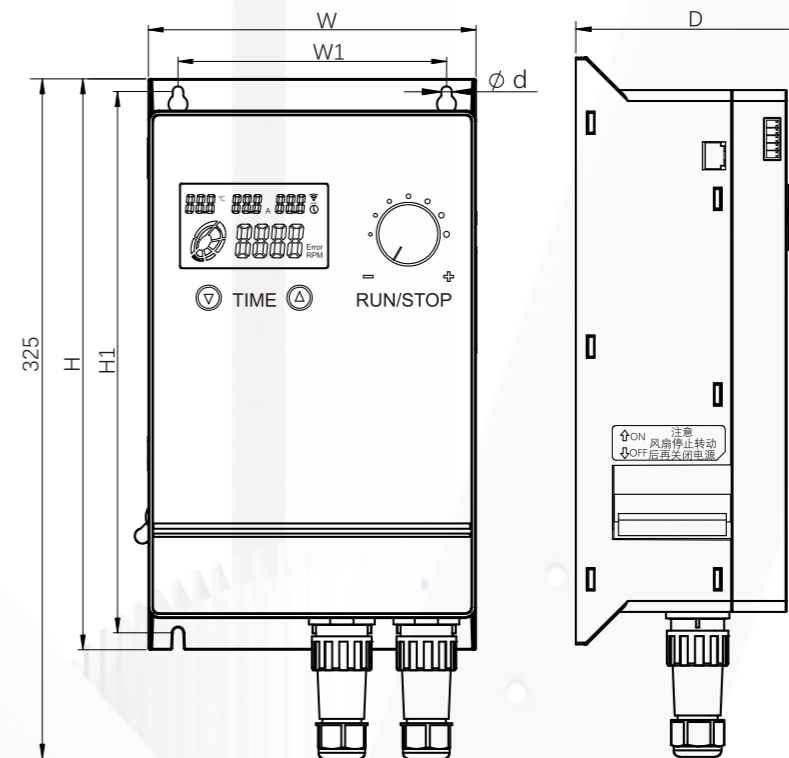
A product specially developed for commercial ceiling fans. Ultra-cost-effective, high efficiency and energy saving, support permanent magnet synchronous and three-phase asynchronous motors. Suitable for commercial ceiling fans, permanent magnet synchronous fans, etc.  
**Power range:** 0.75KW  
**Dimensions:** 177\*105\*95mm (reference )

# PRODUCT INTRODUCTION



200G/201G special inverter for HVLS fan

# INSTALLATION SIZE



200G series is integrated switching power supply, a product developed by special scheme, stable and reliable, exquisite appearance, convenient control, compatible with permanent magnet synchronous and asynchronous motors, excellent motor control algorithm, to achieve smooth start, high efficiency and energy saving, super quiet, intelligent control, set a variety of expandable functions, to meet a variety of customization.

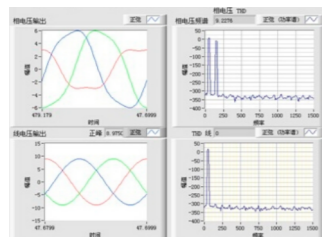
The 201G Series is a commercial drive based on the 200G project upgrade and customization, with optimized function expansion: Added DC24V power supply, standard 485 communication port, lighting control switch and output aviation connector upgraded to 6pin.

Input Voltage	Art No.	Power (KW)	Output current (A)	Product size (mm)			
				H(H1)	W(W1)	D	d
Single phase AC200~240V 50Hz/60Hz	200G-R75G1	0.75	4	270 (256)	155 (127)	108	5
	200G-1R5G1	1.5	7				
	200G-2R2G1	2.2	9.6				
	201G-R75G1	0.75	4				
Three phase AC380~480V 50Hz/60Hz	200G-R75G3	0.75	2.1	270 (256)	155 (127)	108	5
	200G-1R5G3	1.5	3.8				
	200G-2R2G3	2.2	5.1				

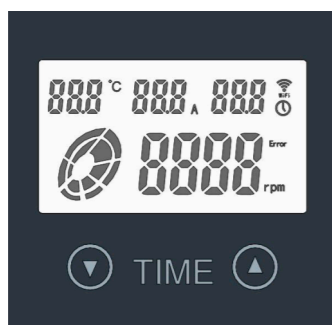
# PRODUCT FEATURES



High-performance vector control,  
smooth start and stop



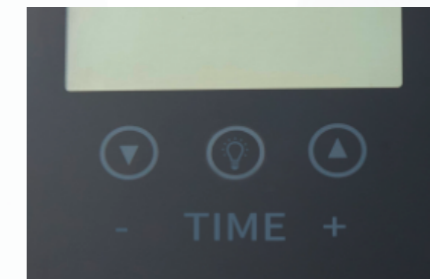
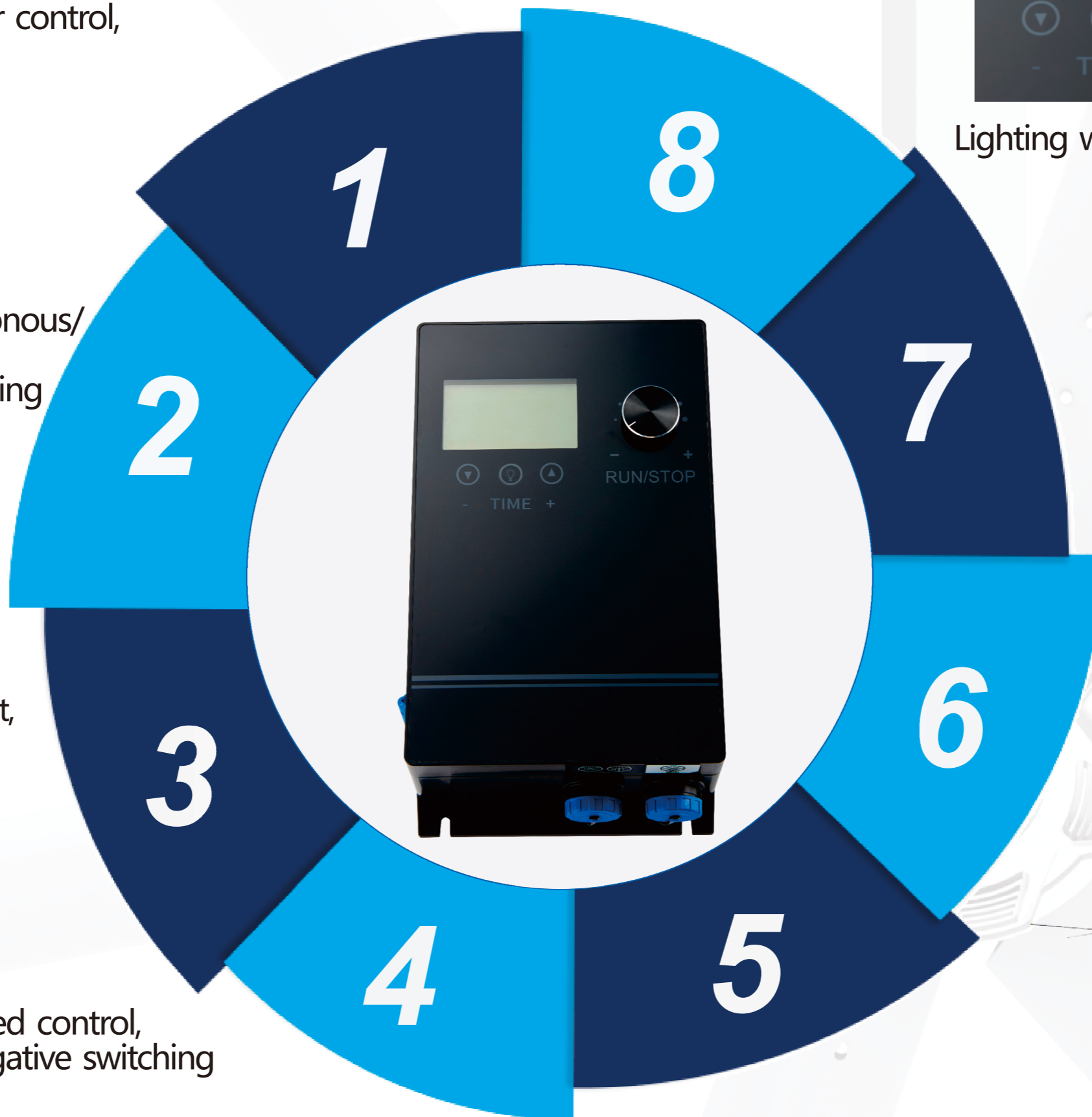
Compatible with synchronous/  
asynchronous motors,  
Support parameter copying



LCD display, speed, current,  
temperature, timing



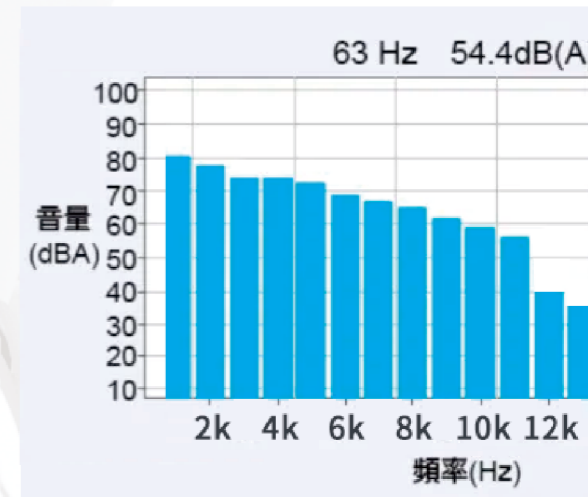
Integrated start and speed control,  
support positive and negative switching



Lighting with Lamp (201G)



High protection class



High carrier and low noise




Support remote control,  
Wifi and 485 selectable




## LABEL INSTRUCTIONS

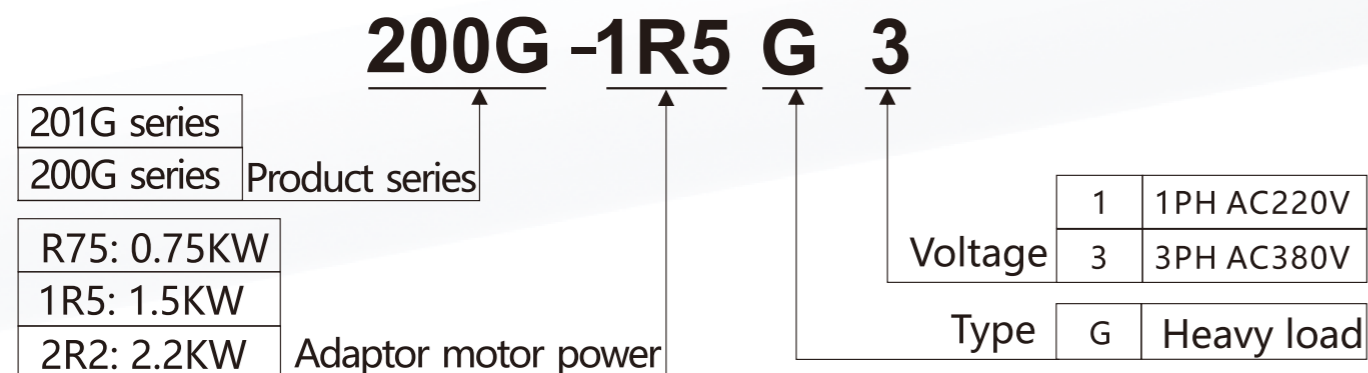
### AC Drive

Model type → MODEL : 200G-1R5G3  
 KW size → POWER : 1.5KW  
 Input type → INPUT : 3PH AC380V 50HZ/60HZ  
 Output type → OUTPUT : 3PH AC380V 5A 0-600HZ

Barcode →   
 B0125420C0051

 **CAUTION** Read the user manual before operation.  
 Don't touch components until 4Min. after disconnection.

### ► Type Definition



## TECHNICAL SPECIFICATION

Item	Type	Details
Input	Voltage Range	Single phase AC220-240V , Three phase AC380-480V.
	Frequency range	48~62HZ .
	Max unbalance	2%.
Output	Output voltage	Three phase 0-100% input voltage .
	Output frequency	0-400HZ.
	Overload	150% rated currrent 60s , 200% rated currrent 1s .
Control performance	Motor Type	Three-phase asynchronous motor , permanent magnet synchronous motor.
	Control model	V/Fcontrol , SVC vector control.
	Carrier frequency	2-16kHz.
Display button	LCDdisplay	Speed, Current, Temperature, Timing, Fault .
	TIME	+/-.
	Switch governor	On/Off and speed control.
Protective function	Short circuit, Overcurrent, Overload, Overheating, Overvoltage, Undervoltage, Input and output phase loss.	
Environment	Installation site	Indoor, the altitude is lower than 1000m. >1000m,decrease by 1% for every 100m rise.
	Temperature and Humidity	-10~+40°C, 40°C above need to reduce the Capacity. 5%~95%RH.
	Vibration	5.9m/s <sup>2</sup> (0.6g) .
	Installation way	Wall mounted.
	Cooling mode	Air cooling .
Optional	Extended function	Level ∙ Wifi.

## Application type

**200G:** Suitable for large-scale industrial ceiling fans (permanent magnet synchronous, asynchronous induction motors), commercial ceiling fans, mobile fans, vertical fan fans, permanent magnet fans, etc. in the industry.

**201G:** Suitable for commercial ceiling fans, permanent magnet fans, etc.

# PRODUCT INTRODUCTION



Commerce-specific models  
——210G



Industrial-specific models  
——220G

## Product Introduction

The 210G series is a product specially customized for commercial ceiling fans, with small size, high protection level, and support for permanent magnet synchronous and asynchronous induction motor control, allowing the product to enter the industrial and civil fields and lead the integration of intelligence into life.

## Product Features

- Cost-effective Product Features
- Gear speed regulation, longer life
- Support remote control
- Support a variety of expansion functions
- More precise and lighter
- Large LCD screen display
- Support parameter copy
- Compatible with permanent magnet same/asynchronous motor

## Application Type

Suitable for commercial ceiling fans, permanent magnet synchronous fans, etc. It can be used in canteens, catering occasions, shopping malls, supermarkets, gyms, markets, etc.

## Product Introduction

The 220G series is an economical industrial fan product, integrated design, small size, high protection level, fan easy to disassemble unload, support permanent magnet synchronous and asynchronous induction motor control, start and stop smooth, easy to operate, silent, energy saving, support 485 communication or Wifi function selection.

## Product Features

- Light and compact Product features
- High cost performance
- High carrier, low noise
- Large LCD display
- Support parameter copy
- Support a variety of expansion functions
- Compatible with permanent magnet same/asynchronous motor

## Application Type

Suitable for large industrial ceiling fans (permanent magnet synchronous induction motor) commercial ceiling fans, moving fans, vertical fans, permanent magnet fans, etc.

# Application Case

