



F1500-G

series of frequency inverter



 **YANTAI HUIFENG ELECTRONICS CO.,LTD**

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Brief Introduction

Established in 1992, Yantai Huifeng Electronics Co., Ltd is one of the high-tech enterprises that firstly dedicated to researching and developing frequency inverter. Till now, our company has become one of the top professional manufacturers that devote to researching, developing, producing and selling frequency inverter in China. In 1996, our products were assessed as the most recommendatory product for saving energy by the national administration. Our frequency inverter of vector control type was taken the lead in obtaining certificate of National Torch Project.

In the past more than ten years, we all along devoted to innovation and amelioration of product and formed the management idea of **“supplying customers with most satisfying product and value-exceeded service”**, as well as the quality concept of **“Striving towards nil defect, winning trust by quality”**. For the sake of better quality, we respectively imported two advanced automatic assembly lines.

According to the actual requirement of Chinese transmission market, our company timely developed general-type inverter of F-1000 and F-1500 series, special-type inverter of F1000-M, F1500-P, ZS1500, ZS2000, LT2000 series, which were widely used in the industries of electric power, building material, textile, printing, plastic, foodstuff, pharmacy, water supply and so on. Thanks to our customers' confidence and support, we earned high reputation in domestic electronics and transmission industries.



In order to fulfill “Zero-distance Service”, we set up of-fices in more than 30 big cities and established service network covering more than 100 cities in China, which formed a wide, integrated and effective sale and service system. Thanks to outstanding quality and sincere service, we wined considerable market, and some series was exported to East Asia, Southeast Asia, Middle East, South America, and so on.





F1500-G series (0.4~75kw)

F1500-G series of frequency inverter is our newest product of general type. By blocking design, the measure of torque elevation is strengthened, the system function is enriched and the anti-jamming capacity and maneuverability is improved too. F1500-G series of frequency inverter is a kind of high-quality, multifunction, low-noise and large-torque general-type frequency inverter that can meet wide-ranging application.



Model Illustration

F1500-G 0015 X S2 B

Structure Mode Code

B: Plastic Housing
C: Metal Hanging Type
D: Metal Cabinet Type

Input Voltage Type

S2: single-phase 220VAC input
T2: three-phase 220VAC input
T3: three-phase 380VAC input

Internal Braking unit Code

Applicable Motor Power (1.5KW)

General-Purpose Type

Product Series

Main Function

- Special built-in PI adjuster for closed-loop control.
- Controlled by keypad, 485 communication control box, PC and PLC, and 125 pieces of inverters can be operated at the same time.
- Line type, square curve type and user-defined type of torque-compensation available, adapted to many kinds of loading mode
- Jogging speed control, external analog signal speed control, multistage speed-control and code timing speed control, PC or PLC speed control.
- Current and voltage stalling adjustment provided
- Standard Two-line type and three-line type of terminal control for more flexible manipulation.
- User-defined analog input voltage signal and current signal all available, compound speed control and channel switch between single and double realizable.
- With the twinkling display of preset frequency, running frequency can be easily set before running, especially on the stage of analog speed control.



Performance Indexes

Items		Descriptions
Input	Rated Voltage	three-phase 380V ± 15% single-phase 220V ± 15%(three-phase 220V±15%)
	Rated Frequency	50/60Hz(±5%)
Output	Rated Voltage	three-phase 0~380V; three-phase 0~220V
	Frequency Range	0.00~400.0Hz (frequency resolution ratio 0.01Hz)
	Overload Capacity	150% 60S
Control Mode	Frequency Setting Accuracy	Digit Setting: 0.01Hz Analog Quantity Setting: Max Frequency × 0.4%
	Setting Mode	Optimized space vector control
	V/F Curve	3 V/F curves. To select and set beeline V/F curve, polygonal line V/F curve and square V/F curve as per load
	Torque Promotion	Manual setting torque promotion within 1~15%
	Automatic Voltage Setting	Automatic setting output voltage to meet input power fluctuation within certain range
	Braking Mode	DC Braking+Optimized Energy Braking
	PI Adjusting	With built-in PI adjuster for automatic control
	Jogging	Jogging Range: 0.00 ~400.0Hz
Operation Function	Automatic Circular Running	User will program output frequency mode as per process requirements
	Frequency Setting	Digit frequency setting, keypad “▲/▼”keys setting, “UP” and “DOWN” terminals setting;Keypad potentiometer or external analog signal (0~10V, 0~20mA) setting; Analog channel compound operation setting; Multi-state speed-control and code timing; 485 communication control box / computer setting.
Protection Function	Start/Stop Control	Control over keypad /485 communication control box, terminals and computer
	Input out-phase, input undervoltage, over-voltage, over-current, inverter overload, motor overload, overheat, current check trouble, peripheral equipment trouble, user password error/exterior interference, contactor monitoring.	
Display	LED nixie tube showing present output frequency, present rotate-speed, present output current, present output voltage, final axis linear-velocity, exterior pulse count-value, types of failure, function-code parameters and operation parameters; 4 LED indicators showing the current working status of inverter.	
Environment Conditions	Equipment Location	Free of tangy caustic gases or dust
	Environment Temperature	-10℃+50℃
	Environment Humidity	Below 90% (no water-bead coagulation)
	Vibration Strength	Below 0.5g (acceleration)
Applicable Motor Power	0.4~75KW	



F1500-G Product List

Models	Rated Input Voltage(V)	Rated Output Current (A)	Structure Code	Applicable Motor (KW)	Remarks
F1500-G0004S2B	~220 (single-phase)	2.5	B0	0.4	Single-Phase Inverter (without internal braking unit)
F1500-G0007S2B	~220 (single-phase)	4.5	B0	0.75	
F1500-G0015S2B	~220 (single-phase)	7.0	B2	1.5	
F1500-G0022S2B	~220 (single-phase)	10.0	B3	2.2	
F1500-G0007T3B	~380 (three-phase)	2.0	B3	0.75	Three-phase inverter (with internal braking unit)
F1500-G0015T3B	~380 (three-phase)	4.0	B3	1.5	
F1500-G0022T3B	~380 (three-phase)	6.5	B3	2.2	
F1500-G0037T3B	~380 (three-phase)	8.0	B4	3.7	
F1500-G0040T3B	~380 (three-phase)	9.0	B4	4.0	
F1500-G0055T3B	~380 (three-phase)	12.0	B5	5.5	
F1500-G0075T3B	~380 (three-phase)	17.0	B5	7.5	
F1500-G0110T3C	~380 (three-phase)	23	C2	11	
F1500-G0150T3C	~380 (three-phase)	32	C2	15	
F1500-G0185T3C	~380 (three-phase)	38	C3	18.5	
F1500-G0220T3C	~380 (three-phase)	44	C3	22	Three-phase inverter (without internal braking unit)
F1500-G0300T3C	~380 (three-phase)	60	C4	30	
F1500-G0370T3C	~380 (three-phase)	75	C5	37	
F1500-G0450T3C	~380 (three-phase)	90	C5	45	
F1500-G0550T3C	~380 (three-phase)	110	C6	55	
F1500-G0750T3C	~380 (three-phase)	150	C6	75	



External Dimensions & Installation Dimensions

Structure Code	External Dimensions (AxBxH)	Installation Dimensions (WxL)	Mounting Screws	Remarks
B0	105x150x120	94x139	M4	Plastic Housing Hanging Type
B2	125x140x170	116x161	M5	
B3	143x148x200	132x187	M5	Plastic Housing Hanging Type
B4	162x150x250	145x233	M5	
B5	200x160x300	182x282	M6	
C2	230x225x380	186x362	M6	Metal Hanging Type
C3	265x235x435	235x412	M6	
C4	314x235x480	274x464	M6	
C5	360x265x555	320x530	M6	
C6	410x300x630	370x600	M10	



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