

FUGONG

PRODUCT CATALOG

INNOVATION DRIVEN •
INTELLIGENT CONTROL OF THE FUTURE



Efficient, Reliable, Stable

WWW.FUGONG.COM



PREFACE

Striving to become the most trusted supplier in the domestic industrial control field !

Thank you all for your continued support and trust in FuGong! We will showcase the advantages of our various product series through a comprehensive product catalog, providing you with an intuitive and convenient channel to access information, to help you understand us more quickly !



Company Profile

Fugong Power, with its profound accumulation in the fields of industrial control technology and liquid cooling technology, has become a major supplier in the fields of industrial control and liquid cooling, as well as in the drive control of new energy vehicles, possessing a complete product development, manufacturing, sales, and service platform company.

Manufacturing

The production workshop covers an area of approximately 30000 m², with advanced automated production equipments and comprehensive testing equipments, with an annual production capacity of 100,000 units.

R&D

With more than 1,600 m² of R&D space, up to now, we have obtained 161 certified patents, including 2 overseas invention patents. It not only confirms our innovation ability and international vision, but also serves as a solid foundation for our technological advancement and product reliability.

The company's AC drives and peripheral products are widely used in photovoltaic, plastics, packaging and printing, food processing machinery, chemical and other industries, covering a power range of 0.4kW to 1000kW, and rich extended features to make the products better adapt to a variety of industrial scenarios. With excellent performance and comprehensive functions, the products have been certified by authoritative testing organizations and have become the mainstream of domestic industrial control field.



Contents

01

General AC drives

FG300 High Performance Vector Drives	01
FG200 Series Mini AC Drives	06
FG31 High Performance Vector Drives	09
FG210 Series Economic AC Drives	14

03

Accessories

IO Expansion Card Selection	49
PG Expansion Card Selection	50
Communication Expansion Card Selection	51
Keyboard Accessories Selection	52

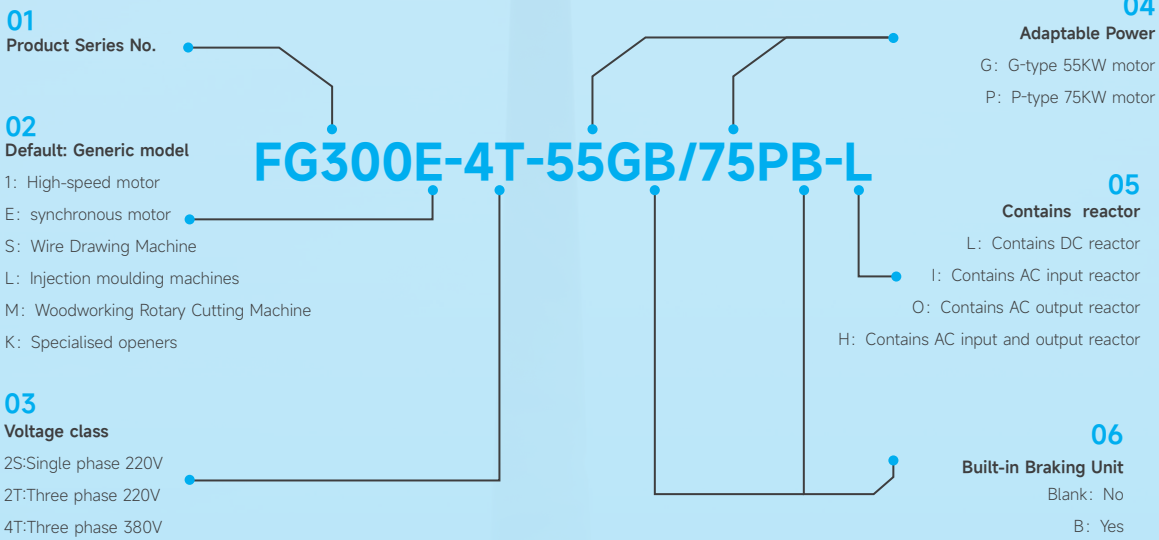
02

Industry-specific AC drives

FS300 Series Intelligent Pump AC Drive	17
FS200 Series Intelligent Pump AC Drive	21
FH300 Series VFD for Outdoor Pumps	25
FG270 Series VFD for Fan and Pump	27
FG300 IP54 Series High-ingress Protection VFD	30
FD200 Series VFD for Engraving Machines	33
FG300K Series All-in-One VFD for Engraving Machines	37
PV300 Solar Pump Inverter	39
PV200 Solar Pump Inverter	44
FG300B Series VFD for Constant Pressure Water Supply	48



Naming Rules



FG300

High Performance Vector Drives

It is a product developed on the high-performance vector technology platform of Fugong Power by adopting the magnetic field orientated vector control technology, which can easily drive the induction motor. Under the premise of high performance and high reliability, the components are reasonably laid out to achieve a book-like narrow body design, equipped with rich expansion interfaces and new expansion accessories, featuring high performance, high reliability, high power density and high applicability.



Power Range	0.75kW~630kW
-------------	--------------

Product Characteristics

- 01

Powerful performance

Equipped with vector control technology, it achieves precise speed control and high torque output, especially in low-speed operation.
- 02

Compact design

Book-type structure, high power density, adapt to a variety of installation methods, optimise the use of space, and enhance the efficiency of heat dissipation.
- 03

Versatility

Modular design, easy to expand, support for remote operation, simplify the debugging process, equipped with a variety of easy-to-use keyboard.
- 04

High reliability

Independent air ducts and advanced thermal management to adapt to harsh environments, and rigorous testing to ensure long-term stable operation.

Technical Specifications

Power input	Rated input voltage	200V Voltage Class: Single/Three-phase 200V ~ 240V; 400V Voltage Class: Three-phase 380V~440V
	Frequency	50Hz/60Hz±5%
	Voltage range	-15% ~ +15%, Voltage out-of-balance rate<3%,
Power output	Output voltage	Three-phase:0%~rated input voltage, error < ±3%
	Output frequency	0 ~ 600.00Hz (Can be changed by parameter)
	Overload capacity	G type:150% - 60 s, P type:120% - 60 s
Control characteristics	Control mode	SVC、FVC、V/F control
	Starting torque	0.25Hz/150% (SVC) , 0Hz/200% (FVC)
Carrier frequency	0.5kHz ~ 16kHz	
Input & Output terminals	Analog input	2 way AI, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital input	5 way DI, DI5 can be equipped with high-speed pulse input as an option., 0~50kHz
	Analog output	1 way AO, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital output	1 way DO, Optional high speed pulse output, 0~100kHz
	Relay output	1 relay output: T1 (normally open and normally closed), Contact drive capability: AC250V, 3A; DC30V, 5A
Environment	Altitude	0~2000m. De-rate 1% for every 100m when the altitude is above 1000 meters
	Ambient temperature	-10℃ ~50℃ , The rated output current should be derated 1% for every 1℃ when the ambient is 40℃ ~50℃
	Relative humidity	5 ~ 95%, no condensation
	Vibration	Less than 5.9m/s ² (0.6g)
	Storage temperature	-20℃ ~ +60℃

Configuration Parameters

Single phase: 200V ~ 240V

Model	Power rating (kW)	Output current (A)	Input current (A)	Recommended power for brake resistance (kW)	Recommended brake resistance (Ω)	Brake unit	DC reactor
FG300-2S-0.75GB	0.75	4.0	8.2	0.08	≥ 150	Inbuilt	none
FG300-2S-1.5GB	1.5	7.0	14	0.1	≥ 100		
FG300-2S-2.2GB	2.2	9.6	23	0.1	≥ 70		
FG300-2S-3.7GB	3.7	17	35	0.2	≥ 40		
FG300-2S-5.5GB	5.5	25	50	0.3	≥ 26		
FG300-2S-7.5GB	7.5	32	61.5	0.5	≥ 16		
FG300-2S-11GB	11	45	90	0.8	≥ 11		
FG300-2S-15G	15	60	120	1.0	≥ 10	Inbuilt optional	Inbuilt optional
FG300-2S-18.5G	18.5	75	150	1.4	≥ 8.0		

Three phase:200V ~ 240V

Model	Power rating (kW)	Output current (A)	Input current (A)	Recommended power for brake resistance (kW)	Recommended brake resistance (Ω)	Brake unit	DC reactor
FG300-2T-0.75GB	0.75	4.0	4.8	0.08	≥ 150	Inbuilt	none
FG300-2T-1.5GB	1.5	7.0	8.8	0.1	≥ 100		
FG300-2T-2.2GB	2.2	9.6	12	0.1	≥ 70		
FG300-2T-3.7GB	3.7	16	21	0.2	≥ 40		
FG300-2T-5.5GB	5.5	20	26	0.3	≥ 25		
FG300-2T-7.5GB	7.5	30	39	0.5	≥ 16		
FG300-2T-11GB	11	42	55	0.8	≥ 11		
FG300-2T-15G	15	55	60	1.0	≥ 10	Inbuilt optional	Inbuilt optional
FG300-2T-18.5G	18.5	70	75	1.4	≥ 8.0		

Three phase: 380V ~ 440V

Model	Power rating (kW)	Output current (A)	Input current (A)	Recommended power for brake resistance (kW)	Recommended brake resistance (Ω)	Brake unit	DC reactor
FG300-4T-0.75GB	0.75	2.5	3.5	0.15	≥ 150	Inbuilt	none
FG300-4T-1.5GB	1.5	3.8	4.6	0.15	≥ 150		
FG300-4T-2.2GB	2.2	5.1	6.3	0.3	≥ 100		
FG300-4T-3.7GB	3.7	9.0	11.5	0.3	≥ 76		
FG300-4T-5.5GB	5.5	13	16.8	0.4	≥ 76		
FG300-4T-7.5GB	7.5	17	22	0.5	≥ 76		
FG300-4T-11GB	11	25	32.5	0.8	≥ 40		
FG300-4T-15GB/18.5PB	15/18.5	32/37	41.5/49.6	1.0	≥ 27		
FG300-4T-18.5GB/22PB	18.5/22	37/45	49.6/59	4.0	≥ 27		
FG300-4T-22GB/30PB	22/30	45/60	59/65	4.5	≥ 27	Inbuilt optional	Inbuilt optional
FG300-4T-30G/37P	30/37	60/75	65/80	6.0	≥ 16		
FG300-4T-37G/45P	37/45	75/91	80/95	7.4	≥ 16		
FG300-4T-45G/55P	45/55	91/112	95/118	9.0	≥ 14		
FG300-4T-55G/75P	55/75	112/150	118/157	11	≥ 10		
FG300-4T-75G/90P	75/90	150/176	157/180	15	≥ 8.0		
FG300-4T-90G/110P	90/110	176/210	180/214	18	≥ 6.8	Externally mounted when needed	Inbuilt
FG300-4T-110G/132P	110/132	210/253	214/256	22	≥ 6.8		
FG300-4T-132G/160P	132/160	253/304	240/287	27	≥ 4.5		
FG300-4T-160G/185P	160/185	304/326	287/306	32	≥ 3.6		
FG300-4T-185G/200P	185/200	326/377	306/365	37	≥ 3.3		
FG300-4T-200G/220P	200/220	377/426	365/410	40	≥ 3.3		
FG300-4T-220G/250P	220/250	426/465	410/441	44	≥ 2.7		
FG300-4T-250G/280P	250/280	465/520	441/495	50	≥ 2.7		
FG300-4T-280G/315P	280/315	520/585	495/565	56	≥ 2.2		

Model	Power rating (kW)	Output current (A)	Input current (A)	Recommended power for brake resistance (kW)	Recommended brake resistance (Ω)	Brake unit	DC reactor
FG300-4T-315G/355P	315/355	585/650	565/617	63	≥ 1.9	Externally mounted when needed	Inbuilt
FG300-4T-355G/400P	355/400	650/725	617/687	70	≥ 1.7		
FG300-4T-400G/450P	400/450	725/820	687/782	80	≥ 1.6		
FG300-4T-450G/500P	450/500	820/860	790/835	90	≥ 1.3		
FG300-4T-500G/560P	500/560	860/950	835/920	100	≥ 1.2		
FG300-4T-560G/630P	560/630	950/1100	920/1050	120	≥ 1.2		

Applications

Fan pumps, air compressors, wire drawing machines, injection moulding machines, ball mills, machine tools, centrifuges, industrial washing machines and other industries and equipment.



FG200
Series Mini AC Drives

This product is a product developed on the latest technology platform of Fugong Power, which is a targeted mini AC drive based on the market demand of small power, small volume and easy speed regulation. As a compact AC drive product with small volume and large capacity, it has significant advantages such as high power density, high EMC specification design and high reliability.



Power Range

0.4kW~5.5kW

Product Characteristics

- 01

Power Control

High-performance vector control technology ensures stable operation at low speeds and high torque output.
- 02

Simple & Easy To Use

Compact size, support a variety of installation methods, simplify the installation and debugging.
- 03

Flexible Functions

Flexible speed command selection, multiple running command giving methods, support for upper computer operation.
- 04

High Reliability

Efficient heat dissipation design, comprehensive protection features.

Technical Specifications

Power input	Rated input voltage	200V Voltage Class:single/three-phase 200V ~ 240V; 400V Voltage Class:Three-phase 380V~440V
	Frequency	50Hz/60Hz±5%
	Voltage range	-15% ~ +15%, Voltage out-of-balance rate<3%
Power output	Output voltage	Three phase: 0%-rated input voltage, error < ±3%
	Output frequency	0 ~ 600.00Hz (Can be changed by parameter)
	Overload capacity	150% - 60 s
Control characteristics	Control mode	SVC、V/F control
	Starting torque	0.25Hz/150% (SVC)
Carrier frequency	0.5kHz ~ 16kHz	
Input & Output terminals	Analog input	1 way AI, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital input	4 way DI, DI4 can be optionally equipped with a high-speed pulse input., 0~50kHz
	Analog output	1 way AO, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital output	1 way DO, Pull-up voltage range: 5V~24V, Output Current Range: 0~20mA
	Relay output	2 relay output: T1 (normally open and normally closed), T2 (normally open) optional, Contact drive capability: AC250V, 3A; DC30V, 5A
Environment	Altitude	0~2000m. De-rate 1% for every 100m when the altitude is above 1000 meters
	Ambient temperature	-10℃ ~50℃ , The rated output current should be derated 1% for every 1℃ when the ambient is 40℃ ~50℃
	Relative humidity	5 ~ 95%, no condensation
	Vibration	Less than 5.9m/s ² (0.6g)
	Storage temperature	-20℃ ~ +60℃

Configuration Parameters

Mode	Power rating (kW)	Output current (A)	Input current (A)	Recommended power for brake resistance (kW)	Recommended brake resistance (Ω)	Brake unit
Single phase: 220V, 50/60Hz Range: -15%~+15%						
FG200-2S-0.4GB	0.4	2.3	5.0	0.08	≥ 150	Inbuilt
FG200-2S-0.75GB	0.75	4.0	8.2	0.08	≥ 150	
FG200-2S-1.5GB	1.5	7.0	14	0.1	≥ 100	
FG200-2S-2.2GB	2.2	9.6	23	0.1	≥ 70	
Three phase: 220V, 50/60Hz Range: -15%~+15%						
FG200-2T-0.4GB	0.4	2.3	4.0	0.08	≥ 150	Inbuilt
FG200-2T-0.75GB	0.75	4.0	4.8	0.08	≥ 150	
FG200-2T-1.5GB	1.5	7.0	8.8	0.1	≥ 100	
FG200-2T-2.2GB	2.2	9.6	12	0.1	≥ 70	
Three phase: 380V, 50/60Hz Range: -15%~+15%						
FG200-4T-0.4GB	0.4	1.5	1.9	0.15	≥ 150	Inbuilt
FG200-4T-0.75GB	0.75	2.5	3.5	0.15	≥ 150	
FG200-4T-1.5GB	1.5	3.8	4.6	0.15	≥ 150	
FG200-4T-2.2GB	2.2	5.1	6.3	0.3	≥ 100	
FG200-4T-4.0GB	4.0	9.5	12.1	0.3	≥ 76	
FG200-4T-5.5GB	5.5	13	16.8	0.4	≥ 76	

Applications

Transport belts, automated production lines, automatic doors, wood processing, optical grinding, food processing, pharmaceutical centrifuges, logistics equipment, ceramic equipment, sewage treatment, constant pressure water supply, textiles and other small automated machinery.



FG310

High Performance Vector
Drives



The product is products are compatible with synchronous and asynchronous motor control, and under the premise of high performance and high reliability, reasonable layout of parts and components to achieve a book-style narrow body design. Strengthen the customer ease of use and industry-specialized design, configured with a wealth of expansion interfaces and new expansion accessories, to achieve high performance, high reliability, high power density, high applicability of the characteristics.

Power Range

0.75kW~1000kW

Product Characteristics

- 01

High-performance vector general purpose platform, new motor control algorithms.
- 02

Integration of synchronous and asynchronous drive, open loop and closed loop.
- 03

Comprehensive full series of book-type design, maximize the installation space savings.
- 04

Hardware and software modular design, powerful expansion capability.
- 05

Comprehensive expansion interface, rich selection of accessories, covering a variety of applications.
- 06

New air duct design, full range of DC fan cooling, safe and reliable.

Technical Specifications

Power input	Rated input voltage	200V Voltage Class: Single/Three-phase 200V ~ 240V; 400V Voltage Class: Three-phase 380V ~ 440V
	Frequency	50Hz/60Hz±5%
	Voltage range	-15% ~ +15%, Voltage out-of-balance rate<3%
Power output	Output voltage	Three-phase: 0%~rated input voltage, error < ±3%
	Output frequency	0 ~ 599.00Hz (changeable by parameter)
	Overload capacity	G type:150% - 60 s, P type:120% - 60 s
Control characteristics	Control mode	SVC、FVC、V/F control
	Starting torque	0.25Hz/150% (SVC) , 0Hz/200% (FVC)
Carrier frequency	1.0kHz ~ 16kHz	
Input & Output terminals	Analog input	2 way AI, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital input	5 way DI, DI5 can be equipped with high-speed pulse input as an option., 0~50kHz
	Analog output	1 way AO, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital output	1 way DO, Optional high speed pulse output, 0~100kHz
	Relay output	1 relay output: T1 (normally open and normally closed), Contact drive capability: AC250V, 3A; DC30V, 5A
Environment	Altitude	0~2000m. De-rate 1% for every 100m when the altitude is above 1000 meters
	Ambient temperature	-10℃ ~50℃ , The rated output current should be derated 1% for every 1℃ when the ambient is 40℃ ~50℃
	Relative humidity	5~95%, no condensation
	Vibration	Less than 5.9m/s ² (0.6g)
	Storage temperature	-20℃ ~ +60℃

Configuration Parameters

Single phase: 200V ~ 240V

Model	Power rating (kW)	Output current (A)	Input current (A)	Recommended power for brake resistance (kW)	Recommended brake resistance (Ω)	Brake unit	DC reactor
FG310-2S-0.75GB	0.75	4.0	8.2	0.08	≥ 150	Inbuilt	none
FG310-2S-1.5GB	1.5	7.0	14	0.1	≥ 100		
FG310-2S-2.2GB	2.2	9.6	23	0.1	≥ 70		
FG310-2S-4.0GB	3.7	16	33	0.2	≥ 40		
FG310-2S-5.5GB	5.5	20	40	0.3	≥ 26		
FG310-2S-7.5GB	7.5	30	58	0.5	≥ 16		
FG310-2S-11GB	11	42	84	0.8	≥ 11		
FG310-2S-15G	15	55	110	1.0	≥ 10	Inbuilt optional	Inbuilt optional
FG310-2S-18.5G	18.5	70	140	1.4	≥ 8.0		

Three phase:200V ~ 240V

Model	Power rating (kW)	Output current (A)	Input current (A)	Recommended power for brake resistance (kW)	Recommended brake resistance (Ω)	Brake unit	DC reactor
FG310-2T-0.75GB	0.75	4.0	4.8	0.08	≥ 150	Inbuilt	none
FG310-2T-1.5GB	1.5	7.0	8.8	0.1	≥ 100		
FG310-2T-2.2GB	2.2	9.6	12	0.1	≥ 70		
FG310-2T-4.0GB	3.7	16	21	0.2	≥ 40		
FG310-2T-5.5GB	5.5	20	26	0.3	≥ 25		
FG310-2T-7.5GB	7.5	30	39	0.5	≥ 16		
FG310-2T-11GB	11	42	55	0.8	≥ 11		
FG310-2T-15G	15	55	60	1.0	≥ 10	Inbuilt optional	Inbuilt optional
FG310-2T-18.5G	18.5	70	75	1.4	≥ 8		

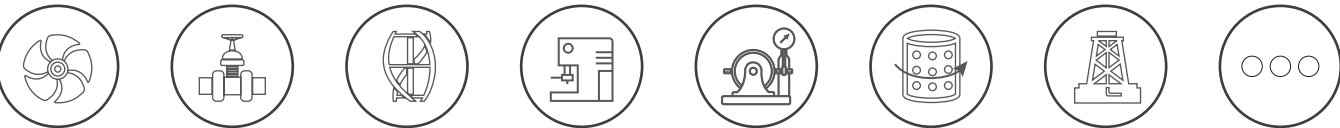
Three phase:380V ~ 440V

Model	Power rating (kW)	Output current (A)	Input current (A)	Recommended power for brake resistance (kW)	Recommended brake resistance (Ω)	Brake unit	DC reactor
FG310-4T-0.75GB/1.5PB	0.75/1.5	2.5/3.8	3.5/4.6	0.15	≥ 150	Inbuilt	none
FG310-4T-1.5GB/2.2PB	1.5/2.2	3.8/5.1	4.6/6.3	0.15	≥ 150		
FG310-4T-2.2GB/4.0PB	2.2/4.0	5.1/9.0	6.3/11.5	0.3	≥ 100		
FG310-4T-4.0GB/5.5PB	4.0/5.5	9.0/13	11.5/16.8	0.3	≥ 76		
FG310-4T-5.5GB/7.5PB	5.5/735	13/17	16.8/22	0.4	≥ 76		
FG310-4T-7.5GB/11PB	7.5/11	17/25	22/32.5	0.5	≥ 76		
FG310-4T-11GB/15PB	11/15	25/32	32.5/41.5	0.8	≥ 40		
FG310-4T-15GB/18.5PB	15/18.5	32/37	41.5/49.6	1.0	≥ 27		
FG310-4T-18.5GB/22PB	18.5/22	37/45	49.6/59	4.0	≥ 27		
FG310-4T-22GB/30PB	22/30	45/60	59/65	4.5	≥ 27	Inbuilt optional	Inbuilt optional
FG310-4T-30G/37P	30/37	60/75	65/80	6.0	≥ 16		
FG310-4T-37G/45P	37/45	75/91	80/95	7.4	≥ 16		
FG310-4T-45G/55P	45/55	91/112	95/118	9.0	≥ 14		
FG310-4T-55G/75P	55/75	112/150	118/157	11	≥ 10		
FG310-4T-75G/90P	75/90	150/176	157/180	15	≥ 8.0		
FG310-4T-90G/110P	90/110	176/210	180/214	18	≥ 6.8	Externally mounted when needed	Inbuilt
FG310-4T-110G/132P	110/132	210/253	214/256	22	≥ 6.8		
FG310-4T-132G/160P	132/160	253/304	240/287	27	≥ 4.5		
FG310-4T-160G/185P	160/185	304/326	287/306	32	≥ 3.6		
FG310-4T-185G/200P	185/200	326/377	306/365	37	≥ 3.3		
FG310-4T-200G/220P	200/220	377/426	365/410	40	≥ 3.3		
FG310-4T-220G/250P	220/250	426/465	410/441	44	≥ 2.7		
FG310-4T-250G/280P	250/280	465/520	441/495	50	≥ 2.7		
FG310-4T-280G/315P	280/315	520/585	495/565	56	≥ 2.2		

Model	Power rating (kW)	Output current (A)	Input current (A)	Recommended power for brake resistance (kW)	Recommended brake resistance (Ω)	Brake unit	DC reactor
FG310-4T-315G/355P	315/355	585/650	565/617	63	≥ 1.9	Externally mounted when needed	Inbuilt
FG310-4T-355G/400P	355/400	650/725	617/687	70	≥ 1.7		
FG310-4T-400G/450P	400/450	725/820	687/782	80	≥ 1.6		
FG310-4T-450G/500P	450/500	820/860	790/835	90	≥ 1.3		
FG310-4T-500G/560P	500/560	860/950	835/920	100	≥ 1.2		
FG310-4T-560G/630P	560/630	950/1100	920/1050	120	≥ 1.2		
FG310-4T-630G/710P-I	630/710	1100/1260	1050/1198	/	/	/	Standard input reactor
FG310-4T-710G/800P-I	710/800	1260/1500	1198/1426	/	/		
FG310-4T-800G/900P-I	800/900	1500/1620	1426/1539	/	/		
FG310-4T-900G/1000P-I	900/1000	1620/1720	1539/1634	/	/		
FG310-4T-1000P-I	1000	1720	1634	/	/		

Applications

Fans and pumps, air compressors, wire drawing machines, injection moulding machines, ball mills, machine tools, centrifuges, industrial washing machines and other industries and equipment.



FG210 Series Economic AC Drives

The products are based on the user's market demand for miniaturization, high reliability and high cost performance. As a book narrow body inverter, FG210 series products have many advantages such as easy installation, small size, low temperature rise, high protection, powerful software performance and so on.



Power Range

0.4kW~22kW

Product Characteristics

- 01

Excellent performance

V/F control, vector control, excellent control performance, adapt to complex operating conditions.
- 02

Stable and Reliable

High standard EMC design, effectively reduce the external interference, to meet the demand for accurate control.
- 03

Small and Compact

Optimal power density design, effectively minimizing the product volume.
- 04

Easy and convenient

Built-in industry professional macro application, support for one-key setup industry parameters; support for external keyboard.

Applications

Transport belts, automated production lines, automatic doors, wood processing, optical grinding, food processing, pharmaceutical centrifuges, logistics equipment, ceramic equipment, sewage treatment, constant pressure water supply, textiles and other small automated machinery.



Technical Specifications

Power input	Rated input voltage	200V Voltage Class:single/three-phase 200V ~ 240V; 400V Voltage Class:Three phase 380V~440V
	Frequency	50Hz/60Hz±5%
	Voltage range	-15% ~ +15%, Voltage out-of-balance rate<3%
Power output	Output voltage	Three phase:0%-rated input voltage, error < ±3%
	Output frequency	0 ~ 599.00Hz (Can be changed by parameter)
	Overload capacity	G type:150% - 60 s, P type:120% - 60 s
Control characteristics	Control mode	SVC、V/F control
	Starting torque	0.25Hz/150% (SVC)
Carrier frequency	1.0kHz ~ 16kHz	
Input & Output terminals	Analog input	1 way AI, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital input	4 way DI, DI4 can be equipped with high-speed pulse input as an option., 0~50kHz
	Analog output	1 way AO, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital output	1 way DO, Pull-up voltage range: 5V~24V, Contact drive capability: 0~20mA
	Relay output	2 relay output: T1(normally open and normally closed)、T2 (normally open) , Contact drive capability: AC250V, 3A; DC30V, 5A
Environment	Altitude	0~2000m. De-rate 1% for every 100m when the altitude is above 1000 meters
	Ambient temperature	-10℃ ~50℃ , The rated output current should be derated 1% for every 1℃ when the ambient is 40℃ ~50℃
	Relative humidity	5~95%, no condensation
	Vibration	Less than 5.9m/s ² (0.6g)
	Storage temperature	-20℃ ~ +60℃

Configuration Parameters

Model	Power rating (kW)	Output current (A)	Input current (A)	Recommended power for brake resistance (kW)	Recommended brake resistance (Ω)	Brake unit
Single phase: 220V, 50/60Hz Range: -15%~+15%						
FG210-2S-0.4GB	0.4	2.3	5	0.08	≥ 150Ω	Inbuilt
FG210-2S-0.75GB	0.75	4.0	8.2	0.08	≥ 150Ω	
FG210-2S-1.5GB	1.5	7.0	14	0.1	≥ 100Ω	
FG210-2S-2.2GB	2.2	9.6	23	0.1	≥ 70Ω	
Three phase: 220V, 50/60Hz Range: -15%~+15%						
FG210-2T-0.4GB	0.4	2.3	4.0	0.08	≥ 150	Inbuilt
FG210-2T-0.75GB	0.75	4.0	4.8	0.08	≥ 150	
FG210-2T-1.5GB	1.5	7.0	8.8	0.1	≥ 100	
FG210-2T-2.2GB	2.2	9.6	12	0.1	≥ 70	
Three phase: 380V, 50/60Hz Range: -15%~+15%						
FG210-4T-0.4GB/0.75PB	0.4/0.75	1.5/2.2	1.9/3.5	0.15	≥ 150	Inbuilt
FG210-4T-0.75GB/1.5PB	0.75/1.5	2.5/3.8	3.5/4.6	0.15	≥ 150	
FG210-4T-1.5GB/2.2PB	1.5/2.2	3.8/5.1	4.6/6.3	0.15	≥ 150	
FG210-4T-2.2GB/3.0PB	2.2/4	5.1/7.1	6.3/8.6	0.3	≥ 100	
FG210-4T-4.0GB/5.5PB	4.0/5.5	9.5/13	12.1/16.8	0.3	≥ 76	
FG210-4T-5.5GB/7.5PB	5.5/7.5	13/17	16.8/22	0.4	≥ 76	
FG210-4T-7.5GB/11PB	7.5/11	17/25	22/32.5	0.5	≥ 76	
FG210-4T-11GB/15PB	11/15	25/32	32.5/41.5	0.8	≥ 40	
FG210-4T-15GB/18.5PB	15/18.5	32/37	41.5/49.6	1.0	≥ 27	
FG210-4T-18.5GB/22PB	18.5/22	37/45	49.6/59	4.0	≥ 27	
FG210-4T-22GB/30PB	22/30	45/60	59/65	4.5	≥ 27	

FS300 Series Intelligent Pump AC Drive

FS300 series intelligent water pump AC Drive, Adopting an advanced integrated design of permanent magnet synchronous and asynchronous, integration of special PID control algorithms, with constant pressure water supply and frequency modulation dual mode of operation, can be flexibly switched to meet the diverse needs. The product body protection level up to IP54, fearless of complex environments, built-in multiple protection mechanisms, stable and reliable operation, to provide a full .

● **Power Range** | Single phase 220V: 0.75 kW ~ 2.2 kW / Three phase 380V: 0.75 kW ~ 22 kW

APPLICATIONS

- Neighborhood Water Supply
- Hotel Water Supply
- Construction Site Water Equipment
- Commercial Building
- Villa Water Supply
- Factory Equipment Boosting
- Municipal Water Supply
- Agricultural Irrigation and Drainage



Constant Pressure Water Supply All- Rounder

PRODUCT CHARACTERISTICS

Wide Power Range Adaptability, All-Purpose Drive

- 0.75~22kW wide power range, support permanent magnet synchronous and asynchronous motor control, applicable to different types of water pumps.
- Specialized PID control algorithm to meet the needs of water supply, drainage, HVAC and other fields.

Water Supply Specialized Functions

- Water supply special function multi-pump intelligent joint control, accurate PID adjustment, efficient master-slave synergy, to ensure stable operation of the pump group.
- Flexible injection, anti-freezing protection, fire override, burst pipe detection, pool level monitoring, dormant mechanism and other rich functions to meet the needs of diversified pumping units.

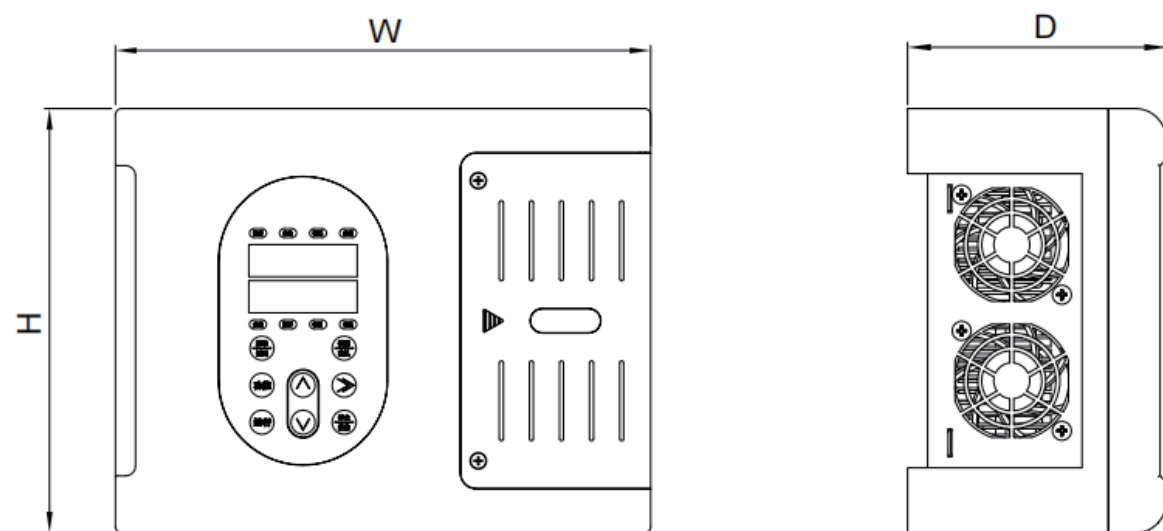
Easy to Use, Intelligent Maintenance

- Backpack fit mounting, small size, light weight, easy to install.
- Support the operation of the upper computer, debugging parameters read with one key, efficient and convenient.
- Equipped with IOT module, it supports remote monitoring and management to enhance the efficiency of operation and maintenance.

Comprehensive Protection, Stable and Carefree

- IP54 high protection level, dustproof and splash-proof, applicable to a variety of harsh working environments.
- Multiple protection functions such as high/low pressure, dry pump, water shortage, water leakage, overload, short circuit, etc. ensure the safe and stable operation of the equipment.

DIMENSIONS & CONFIGURATION PARAMETER



Model	Power rating (kW)	Output current (A)	Input current (A)	External dimension (mm)	Net Weight (Kg)
Single phase 220V					
FS300-2S-0.75G	0.75	4.0	8.2	226*189*121	1.8
FS300-2S-1.5G	1.5	7.0	14.0		
FS300-2S-2.2G	2.2	9.6	23.0		
Three phas380V					
FS300-4T-0.75G	0.75	2.5	3.5	226*189*121	1.8
FS300-4T-1.5G	1.5	3.8	4.6		
FS300-4T-2.2G	2.2	5.1	6.3		
FS300-4T-3.0G	3.0	7.1	9.0		
FS300-4T-4.0G	4.0	9.0	11.5		
FS300-4T-5.5G	5.5	13.0	16.8	267*212*130	3.2
FS300-4T-7.5G	7.5	17.0	22.0		
FS300-4T-11G	11.0	25.0	32.5		
FS300-4T-15G	15.0	32.0	41.5	322*276*146	5.3
FS300-4T-18.5G	18.5	37.0	49.6		
FS300-4T-22G	22.0	45.0	59.0		

TECHNICAL SPECIFICATIONS

Power input	Rated input voltage	200V Voltage Class: Single phase 200V ~ 240V 400V Voltage Class: Three-phase 380V ~ 440V
	Frequency	50Hz/60Hz
	Voltage rang	-15% ~ +15% ,Voltage out-of-balance rate<3%
Power output	Output voltage	Three phase: 0%~rated input voltage, error < ±3%
	Output frequency	0 ~ 600.00Hz, (Can be changed by parameter)
	Overload capacity	150% - 60s, 180% - 1s
Control characteristics	Control mode	SVC、V/F control
	Starting torque	0.25Hz/150% (SVC)
Carrier frequency	1.0kHz ~ 16kHz	
Input & Output terminals	Input terminals	3 way DI 2 way AI, 0 ~ 10V or 0/4 ~ 20mA are selectable.
	Output terminals	1 way DO 1 way T1 1 way AO, 0-10V voltage or 0/4-20mA are selectable
	Communication terminals	1 way 485 communication terminal 1 way CAN communication terminal
Environment	Place of operation	Water supply systems or automated control systems for residential communities, commercial buildings, agriculture, or factories, installed in factories, basements, or integrated pump houses outdoors.
	Altitude	0~2000m. De-rate 1% for every 100m when the altitude is above 1000 meters
	Ambient temperature	-10℃ ~50℃ , The rated output current should be derated 1% for every 1℃ when the ambient is 40℃ ~50℃
	Relative humidity	1% for every 1℃ when the ambient is 40℃ ~50℃
	Vibration	Less than 5.9m/s ² (0.6g)
	Storage temperature temperature	-20℃ ~ +60℃
	Installation	Backpack, wall-mounted
Others	IP grade	IP54

Home Water Assistan

FS200

Series Intelligent Pump
AC Drive

FS200 is an efficient and convenient household intelligent water supply helper. Simple and fashionable appearance, compact and lightweight body, support backpack installation; IP54 protection level, adapt to a variety of environments. Integrated small pump frequency control and accurate constant pressure control function, simple operation, stable and reliable performance.

APPLICATIONS

- Domestic Residential Pressurization
- Water purification equipment pressurization
- Solar water heater pressurization
- Circulating water supply system
- Villa water supply
- Micro Irrigation System

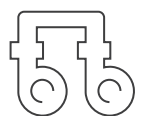
HOME WATER
ASSISTAN

● Power Range | Single phase 220V: 0.75 kW ~ 2.2 kW

PRODUCT CHARACTERISTICS

Precision Constant Pressure, Intelligent Pump Linking

- Precise constant pressure control, automatic adjustment of pump speed, to ensure stable water supply pressure, significantly improve the quality of water supply.
- Equipped with RS485 interface, it supports multi-pump linkage and easily realizes intelligent group control management of small pumps.



Compact and Lightweight, Intelligent and Convenient

- Small and compact size, supports backpack mounting to save space.
- One-touch pressure setting, easy to use and convenient to control.
- Self-starting on power-up, no manual intervention, efficient and flexible operation.

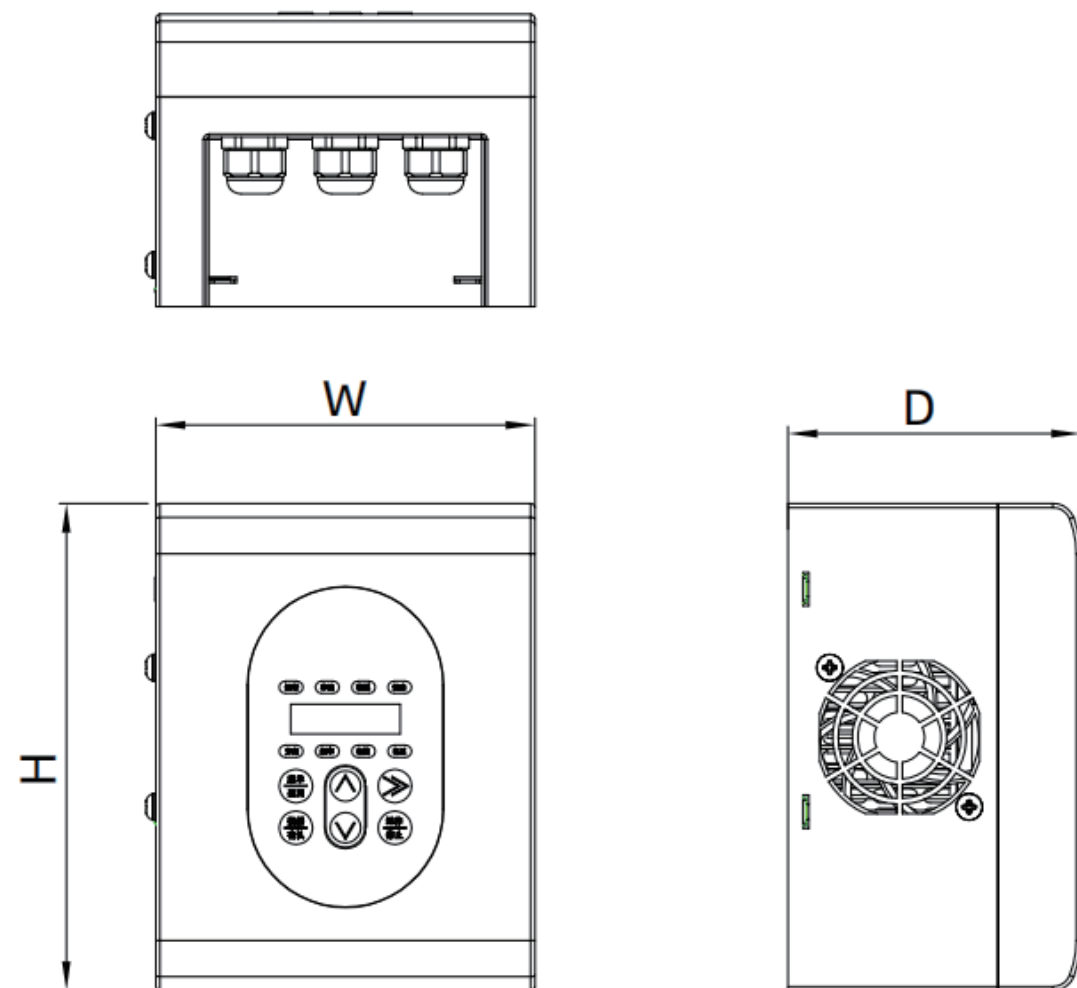


Strong adaptability and comprehensive protection

- Wide voltage range for improved device compatibility for demanding grid environments.
- IP54 protection class, dust and splash-proof, adaptable to a variety of environments.
- Multiple protection functions such as high/low pressure, dry pump, water shortage, water leakage, overload, short circuit, etc. ensure the safe and stable operation of the equipment.



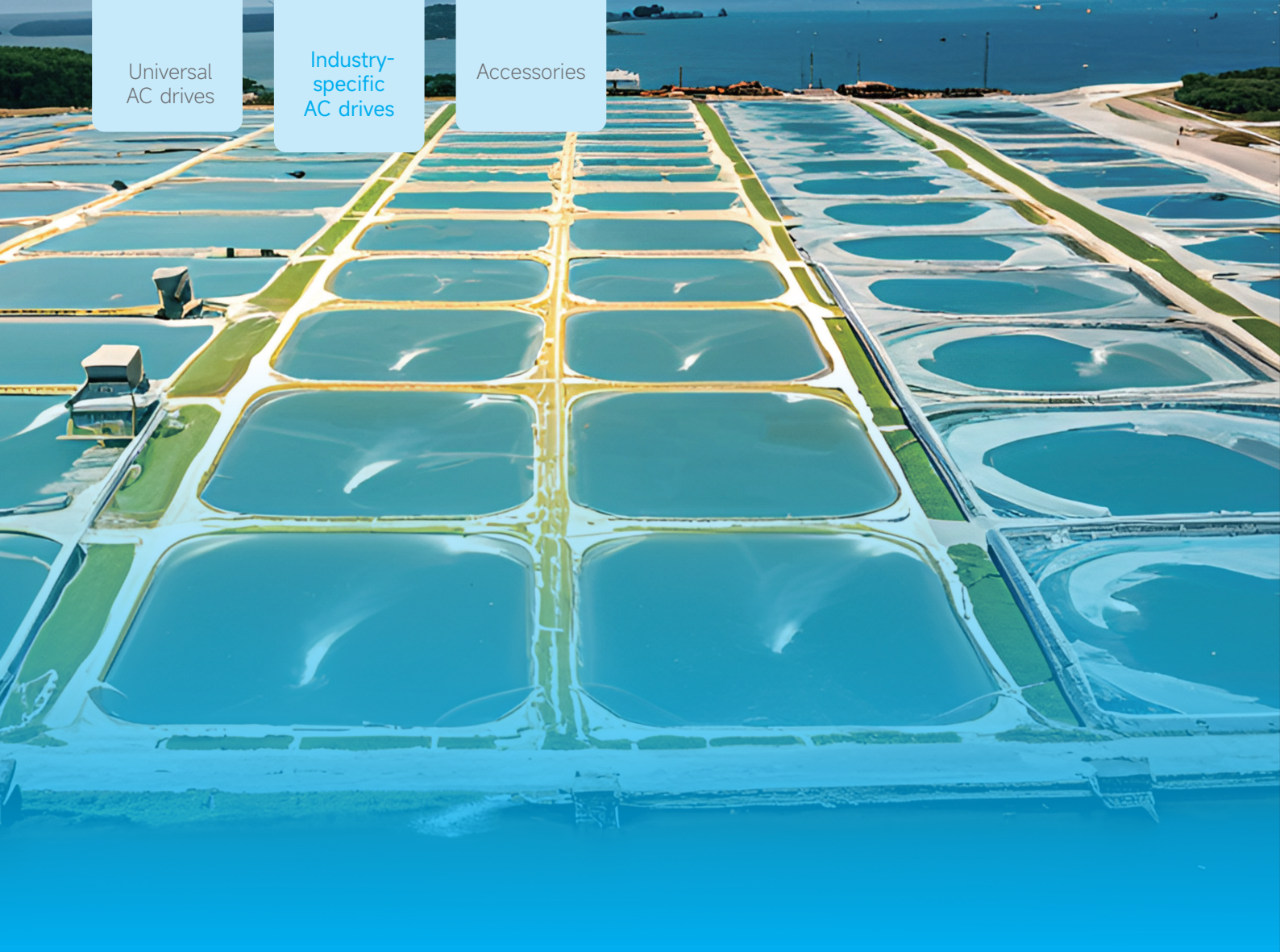
DIMENSIONS & CONFIGURATION PARAMETER



Model	Power rating (kW)	Output current (A)	Input current (A)	External dimension (mm)	Net Weight (Kg)
FS200-2S-0.75G	0.75	4.0	8.2	136*175*05	1.0
FS200-2S-1.5G	1.5	7.0	14.0		
FS200-2S-2.2G	2.2	9.6	23.0		

TECHNICAL SPECIFICATIONS

Power input	Rated input voltage	200V Voltage Class: Single phase 200V ~ 240V 400V Voltage Class: Three-phase 380V ~ 440V
	Frequency	50Hz/60Hz
	Voltage rang	-15% ~ +15% ,Voltage out-of-balance rate<3%
Power output	Output voltage	Three phase: 0%~rated input voltage, error < ±3%
	Output frequency	0 ~ 600.00Hz, (Can be changed by parameter)
	Overload capacity	150% - 60s, 180% - 1s
Control characteristics	Control mode	SVC、V/F control
	Starting torque	0.25Hz/150% (SVC)
Carrier frequency	1.0kHz ~ 16kHz	
Input & Output terminals	Input terminals	2 way DI 1 way AI, 0 ~ 10V or 0/4 ~ 20mA are selectable.
	Output terminals	1 way AO, 0-10V or 0/4-20mA are selectable.
	Communication terminals	1 way 485 communication terminal
Environment	Place of operation	Water supply systems or automated control systems for residential communities, commercial buildings, agriculture, or factories, installed in factories, basements, or integrated pump houses outdoors.
	Altitude	0~2000m. De-rate 1% for every 100m when the altitude is above 1000 meters
	Ambient temperature	-10℃ ~50℃ , The rated output current should be derated 1% for every 1℃ when the ambient is 40℃ ~50℃
	Relative humidity	1% for every 1℃ when the ambient is 40℃ ~50℃
	Vibration	Less than 5.9m/s ² (0.6g)
	Storage temperature temperature	-20℃ ~ +60℃
Others	Installation	Backpack, wall-mounted
	IP grade	IP54



Universal
AC drives

Industry-
specific
AC drives

Accessories

Accessories

Industry-
specific
AC drives

Universal
AC drives

FUGONG

Product Characteristics

01

Precise control

Algorithm enhancement for precise control of flow and head.

02

Enhanced lightning protection design

Special enhanced lightning protection circuit, safety is consolidated again.

03

Rich energy-saving function

Adopting energy-saving control technology to ensure efficient and energy-saving operation of the motor.

04

Safety & High Reliability

Safe to use even in harsh environments by adopting long-life design, instantaneous blackout countermeasures, and humidity- and dust-resistant treatments.

05

Convenient to install and carry

THE lower end in and out of the line design, installation is hassle-free; intimate carrying handle design, more convenient to carry.

06

Remote monitoring

Can be accessed from a remote location via a smartphone and is able to automatically adjust the operating status based on real-time data.

FH300

Series VFD for Outdoor Pumps

This product is specially developed for outdoor water pump application, adopting energy-saving, high-efficiency motor control and other advanced technologies. The product adopts high temperature resistant, UV and oxidation resistant plastic casing materials with IP54 protection level for the harsh environment of high temperature, high humidity, high salt and sunshine under long time operation of industrial equipment, and it is equipped with high performance vector control algorithms for permanent magnet synchronous motors and industry-specific logic functions to ensure long term stable operation in outdoor areas.



Power range

1.5kW~7.5kW

Product Selection List

Model	External dimensions(mm)			Installation dimensions (mm)		Output current (A)	Input current (A)
	W	H	D	W1	W2		
FH300-4T-1.5G	270	130	151	117	257	3.8	5
FH300-4T-2.2G	270	130	151	117	257	5.1	5.8
FH300-4T-3.0G	270	130	151	117	257	7.1	8.6
FH300-4T-4.0G	270	130	151	117	257	9.0	10.5
FH300-4T-5.5G	270	130	151	117	257	13.6	17.5
FH300-4T-7.5G	270	130	151	117	257	17	22



FG270

Series VFD for Fan & Pump

This product is a special AC drive for fan and pump applications, the whole series adopts book-type structural design, compact structure, powerful and stable performance, and can be applied to sewage treatment, HVAC, chemical industry, metallurgy, electric power and other industries of fan and pump load drive.

Power Range

1.5kW~400kW

Product Characteristics



Compact design
Book-style design for easy installation and a more compact product structure.



Energy efficient
Integrated with a brand-new ECO energy-saving algorithm to reduce operational costs.



Flexible Configuration
Options for built-in DC reactors and output reactors.



Easy Debugging
Supports upper computer software for simple and Debugging commissioning.

Technical Specifications

Power input	Rated input voltage	400V Voltage Class:Three-phase 380V~440V
	Frequency	50Hz/60Hz±5%
	Voltage range	-15% ~ +15%, Voltage out-of-balance rate<3%
Power output	Output voltage	Three-phase:0%~rated input voltage, error < ±3%
	Output frequency	0 ~ 600.00Hz (Can be changed by parameter)
	Overload capacity	120% - 60s
Control characteristics	Control mode	SVC、FVC、V/F control
	Starting torque	0.25Hz/150% (SVC) , 0Hz/200% (FVC)
Carrier frequency	0.5kHz ~ 16kHz	
Input & Output terminals	Analog input	2 way AI, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital input	5 way DI, DI5 can be equipped with high-speed pulse input as an option., 0~50kHz
	Analog output	1 way AO, 0 ~ 10V or 0/4 ~ 20mA are selectable.
	Digital output	1 way DO, Optional high speed pulse output, 0~100kHz
	Relay output	1 relay output: T1 (normally open and normally closed), Contact drive capability: AC250V, 3A; DC30V, 5A
Environment	Altitude	0~2000m. De-rate 1% for every 100m when the altitude is above 1000 meters
	Ambient temperature	-10℃ ~50℃ , The rated output current should be derated 1% for every 1℃ when the ambient is 40℃ ~50℃
	Relative humidity	5~95%, no condensation
	Vibration	Less than 5.9m/s ² (0.6g)
	Storage temperature	-20℃ ~ +60℃

Configuration parameters

Model	Power rating (kW)	Output current (A)	Input current (A)	Recommended power for brake resistance (kW)	Recommended brake resistance (Ω)	Brake unit
FG270-4T-1.5KB	1.5	3.8	4.6	0.15	≥ 150	Inbuilt
FG270-4T-2.2KB	2.2	5.1	6.3	0.15	≥ 150	
FG270-4T-3.7KB	3.7	9.0	11.5	0.3	≥ 100	
FG270-4T-5.5KB	5.5	13	16.8	0.3	≥ 76	
FG270-4T-7.5KB	7.5	17	22	0.4	≥ 76	
FG270-4T-11KB	11	25	32.5	0.5	≥ 76	
FG270-4T-15KB	15	32	41.5	0.8	≥ 40	
FG270-4T-18.5KB	18.5	37	49.6	1.0	≥ 27	
FG270-4T-22KB	22	45	59	4.0	≥ 27	
FG270-4T-30KB	30	60	65	4.5	≥ 27	
FG270-4T-37K	37	75	80	6.0	≥ 16	Inbuilt optiona
FG270-4T-45K	45	91	95	7.4	≥ 16	
FG270-4T-55K	55	112	118	9.0	≥ 14	
FG270-4T-75K	75	150	157	11	≥ 10	
FG270-4T-90K	90	176	180	15	≥ 8.0	
FG270-4T-110K	110	210	214	18	≥ 6.8	
FG270-4T-132K	132	253	256	22	≥ 6.8	Externally mounted when needed
FG270-4T-160K	160	304	287	27	≥ 4.5	
FG270-4T-185K	185	326	306	32	≥ 3.6	
FG270-4T-200K	200	377	365	37	≥ 3.3	
FG270-4T-220K	220	426	410	40	≥ 3.3	
FG270-4T-250K	250	465	441	44	≥ 2.7	
FG270-4T-280K	280	520	495	50	≥ 2.7	
FG270-4T-315K	315	585	565	56	≥ 2.2	
FG270-4T-355K	355	650	617	63	≥ 1.9	
FG270-4T-400K	400	725	687	70	≥ 1.7	





FG300-IP54

High-ingress Protection VFD

This product developed for harsh environments such as high humidity, high dust, high oil pollution, etc. With IP54 protection level, the product supports asynchronous motors and permanent magnet motors. At the same time, it strengthens the reliability and environmental adaptability of the product, as well as the customized and industrialized design, which makes the function more optimized and the application more flexible.

Power Range

0.75kW~22kW

Product Characteristics



Advanced Protection

The entire machine has an IP54 protection rating, specifically targeted at applications with high performance and functionality requirements, and high pollution levels.



Safe and Reliable

The independent air duct design effectively enhances the protection of the frequency converter, adapting to various complex and harsh on-site environments, and improving product reliability.



Excellent Performance

Equipped with vector control technology, it achieves precise speed control and high torque output, especially excelling during low-speed operation.



Versatile and Easy to Use

Rich in expansion capabilities, it supports monitoring and commissioning through an upper computer.

Configuration parameters

Model	Power rating (kW)	Output current (A)	Input current (A)	Recommended power for brake resistance (kW)	Recommended brake resistance (Ω)	Brake unit
FG300-4T-0.75GB-IP54	0.75	2.5	3.5	0.15	≥ 150	Inbuilt
FG300-4T-1.5GB-IP54	1.5	3.8	4.6	0.15	≥ 150	
FG300-4T-2.2GB-IP54	2.2	5.1	6.3	0.3	≥ 100	
FG300-4T-3.7GB-IP54	3.7	9.0	11.5	0.3	≥ 76	
FG300-4T-5.5GB-IP54	5.5	13	16.8	0.4	≥ 76	
FG300-4T-7.5GB-IP54	7.5	17	22	0.5	≥ 76	
FG300-4T-11GB-IP54	11	25	32.5	0.8	≥ 40	
FG300-4T-15GB-IP54	15	32	41.5	1.0	≥ 27	
FG300-4T-18.5GB-IP54	18.5	37	49.6	4.0	≥ 27	
FG300-4T-22GB-IP54	22	45	59	4.5	≥ 27	

Technical Specifications

Power input	Rated input voltage	400V Voltage Class: Three-phase 380V~440V
	Frequency	50Hz/60Hz±5%
	Voltage range	-15% ~ +15%, Voltage out-of-balance rate<3%
Power output	Output voltage	Three phase:0%~rated input voltage, error < ±3%
	Output frequency	0 ~ 600.00Hz (changeable by parameter)
	Overload capacity	150% - 60 s
Control characteristics	Control mode	SVC、FVC、V/F control
	Starting torque	0.25Hz/150% (SVC) , 0Hz/200% (FVC)
Carrier frequency	0.5kHz ~ 16kHz	
Input & Output terminals	Analog input	2 way AI, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital input	5 way DI, DI5 can be equipped with high-speed pulse input as an option., 0~50kHz
	Analog output	1 way AO, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital output	1 way DO, Optional high speed pulse output, 0~100kHz
	Relay output	1 relay output: T1 (normally open and normally closed), Contact drive capability: AC250V, 3A; DC30V, 5A
Environment	Altitude	0~2000m. De-rate 1% for every 100m when the altitude is above 1000 meters
	Ambient temperature	-10℃ ~50℃ , The rated output current should be derated 1% for every 1℃ when the ambient is 40℃ ~50℃
	Relative humidity	1% for every 1℃ when the ambient is 40℃ ~50℃
	Vibration	Less than5.9 m/s ² (0.6g)
	Storage temperature	-20℃ ~ +60℃



FD200

Series VFD for Engraving Machines

The AC drive for engraving machine is a high-performance drive device designed for the spindle system of CNC engraving machine, featuring compact size, high power density, simple operation, stable and reliable operation, and complete protection functions.



Power Range

0.75kW~15kW

Accessories

Industry-specific
AC drives

Universal
AC drives

FUGONG

Product Characteristics

01

High frequency accuracy

High frequency up to 1000Hz, frequency control accuracy control within 0.5%, support engraving machine in high-speed state to accurately complete complex processing tasks.

03

Complete protection

Built-in a variety of protection functions to ensure long-term reliable operation of the AC drive; with a fault recording mechanism, easy to maintain later.

02

Multi-speed operation support

Programmable 16-segment speed operation, each segment of the running time, acceleration and deceleration time, running direction are independently adjustable, according to different processing needs to flexibly adjust the speed, improve production efficiency and processing quality.

04

Highly Reliable

The products are based on a new hardware platform and have passed stringent testing standards for higher reliability.

05

Communications protocol

Standard RS485 communication interface, with good anti-interference ability, MODBUS RTU protocol, easy to achieve the interconnection of inverter and PLC, industrial control machine and other industrial control equipment.

07

Adaptive control technology

With unique adaptive control technology, automatic current limiting and voltage limiting and under-voltage suppression during operation, ensuring the stability and safety of the engraving machine in different working conditions.

06

Optimised current limiting and frequency reduction processing

In case of high load or overload, the AC drive will automatically perform current limiting and frequency reduction to keep the equipment running stably.



Configuration Parameters

Model	Power rating (kW)	Output current (A)	Input current (A)	Recommended power for brake resistance (kW)	Recommended brake resistance (Ω)	Brake unit
Single phase 220V						
FD200-2S-0.75GB	0.75	4.0	8.2	0.08	≥ 150	Inbuilt
FD200-2S-1.5GB	1.5	7.0	14	0.1	≥ 100	
FD200-2S-2.2GB	2.2	9.6	23	0.1	≥ 70	
FD200-2S-3.0GB	3.0	13	27	0.15	≥ 50	
FD200-2S-4.0GB	4.0	16	33	0.2	≥ 40	
FD200-2S-5.5GB	5.5	20	40	0.3	≥ 26	
FD200-2S-7.5GB	7.5	30	58	0.5	≥ 16	
FD200-2S-9.0GB	9.0	36	72	0.6	≥ 13	
FD200-2S-11GB	11	42	84	0.8	≥ 11	
Three phase 380V						
FD200-4T-0.75GB	0.75	2.5	3.5	0.15	≥ 150	Inbuilt
FD200-4T-1.5GB	1.5	3.8	4.6	0.15	≥ 150	
FD200-4T-2.2GB	2.2	5.1	6.3	0.3	≥ 100	
FD200-4T-3.0GB	3.0	7.1	8.6	0.3	≥ 100	
FD200-4T-4.0GB	4.0	9.5	12.1	0.3	≥ 76	
FD200-4T-5.5GB	5.5	13	16.8	0.4	≥ 76	
FD200-4T-7.5GB	7.5	17	22	0.5	≥ 76	
FD200-4T-9.0GB	9.0	20	26	0.6	≥ 60	
FD200-4T-11GB	11	25	32.5	0.8	≥ 40	
FD200-4T-15GB	15	32	41.5	1	≥ 27	

Technical Specifications

Power input	Rated input voltage	200V Voltage Class: Single phase 200V ~ 240V ; 400V Voltage Class: Three-phase 380V~440V
	Frequency	50Hz/60Hz±5%
	Voltage range	-15% ~ +15%, Voltage out-of-balance rate<3%
Power output	Output voltage	Three-phase : 0%~rated input voltage, error < ±3%
	Output frequency	0 ~ 1000Hz (Can be changed by parameter)
	Overload capacity	150% - 60 s
Control characteristics	Control mode	SVC、V/F control
	Starting torque	0.25Hz/150% (SVC)
Carrier frequency	1.0kHz ~ 16kHz	
Input & Output terminals	Analog input	1 way AI, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital input	4 way DI, DI4 can be equipped with high-speed pulse input as an option., 0~50kHz
	Analog output	1 way AO, 0 ~ 10V or 0/4 ~ 20mA are selectable.
	Digital output	1 way DO, Pull-up voltage range: 5V~24V, Contact drive capability: 0~20mA
	Relay output	2 relay output: T1(normally open and normally closed)、T2 (normally open) , Contact drive capability: AC250V, 3A; DC30V, 5A
Environment	Altitude	0~2000m. De-rate 1% for every 100m when the altitude is above 1000 meters
	Ambient temperature	-10℃ ~50℃ , The rated output current should be derated 1% for every 1℃ when the ambient is 40℃ ~50℃
	Relative humidity	5~95%, no condensation
	Vibration	Less than 5.9m/s ² (0.6g)
	Storage temperature	-20℃ ~ +60℃



Universal
AC drives

Industry-
specific
AC drives

Accessories

FG300K

Series All-in-One VFD for Engraving Machines

This product is an all-in-one AC drive specially developed for multi-process CNC openers on the basis of FG300. It adopts high performance spindle motor algorithm and built-in independent motor drive unit.



Power Class

7.5kW

Accessories

Industry-
specific
AC drives

Universal
AC drives

FUGONG

Product Characteristics

- 01

Intelligent drive
All-in-one intelligent drive for the spindle of the opener.
- 02

Smooth switching
0 seconds of smooth spindle switching.
- 03

Optimised design
Independent air ducts for dusty applications.
- 04

Open interfaces
Functions and interfaces are fully open, specially made for the opening machine process.
- 05

Flexible
Output frequency range can be selected from 0~600Hz or 0~1200Hz.
- 06

Simple and easy to use
4 power cables + 16 motor cables + Upper computer control cable.

Specification

Project name	FG300K Series
Product Dimension	387mm*184mm*224mm
Input Voltage	Three phase 380V
Control method	V/F Control
Overload capacity	150% Rated current 60s
Protection class	IP20
HMI	Multi-parameter display with two-line LED
Main terminals	1 input terminal (R, S, T), 4 (or 5) output terminals (U, V, W)
Control line terminal	4 (or 5) DI control signals, 4 relay signals
Motor Parameter Recognition	Includes static and dynamic identification

PV300

Solar Pump Inverter



The PV300 product is specially designed for photovoltaic water pump systems, featuring excellent MPPT technology and a compact, stable structure. It is suitable for a variety of water conservancy applications, providing a green and efficient energy solution.

Power Range

0.75kW-710kW

Product Characteristics

01

MPPT technology

Utilizing top-notch MPPT technology, it achieves high-efficiency photovoltaic power tracking of 99.9%.

MPPT

02

RMON

Supports remote control, enabling remote monitoring functions via computer web pages and mobile APP.

RMON

03

Powerful protection

Built-in soft-start, over-voltage, overload, under-voltage and weak sunlight protection functions, effectively extending the product life.

Protection

04

self-adjusting feature

Equipped with a water level detection function for automatic regulation of the water pump.

self-adjusting feature

05

Dry run detection function

automatically protects the water pump to prevent motor burnout during operation without water.

Dry run detection function

06

One-touch read function

Professional upper computer software, debugging parameters read by one key.

One-touch read function

07

Unattended

Capable of automatically switching between photovoltaic DC input and grid AC input, ensuring the water pump operates unattended for 24 hours.

24h

Technical specifications

Power input	Voltage	1T: 90V DC ~ 400V DC 2T: 150V DC~ 450V DC 4T: 250V DC ~800V DC/350VDC-800VDC
	Frequency	50Hz/60Hz±5%
	Voltage range	-15% ~ +15%, Voltage out-of-balance rate<3%
	Total Voc range (V) of recommended panels	1T Type:175-380VDC 2T Type:360-430VDC 4T Type:620-750VDC
Power output	Output voltage	Three-phase:0%~rated input voltage, error < ±3%
	Output frequency	0 ~ 599.00Hz (Can be changed by parameter)
	Overload capacity	150% rated current/60s, 180% rated current/10s, 200% rated current/0.5s
Carrier frequency	1.0kHz ~ 16kHz	
Input & Output terminals	Analog input	2 way AI, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital input	5 way DI, DI5 can be equipped with high-speed pulse input as an option., 0~50kHz
	Analog output	1 way AO, 0 ~ 10V or 0/4 ~ 20mA are selectable.
	Digital output	1 way DO, Optional high speed pulse output, 0~100kHz
	Relay output	1 relay output: T1 (normally open and normally closed), Contact drive capability: AC250V, 3A; DC30V, 5A
Environment	Altitude	0~2000m. De-rate 1% for every 100m when the altitude is above 1000 meters
	Ambient temperature	-10℃ ~50℃ , The rated output current should be derated 1% for every 1℃ when the ambient is 40℃ ~50℃
	Relative humidity	5~95%, no condensation
	Vibration	Less than 5.9m/s ² (0.6g)
	Storage temperature	-20℃ ~ +60℃

Configuration Parameters

PV300-1T Series: Input 90-400VDC, 3 Phase 110-230VAC Output,Suitable for AC110V Pumps

Solar Pump Inverter Power (kW)	Pump		Max solar power input (kW)	Max DC Input Voltage (V)	Recommended Voc voltage (V)	Rated Output Current (A)	Output frequency (Hz)
	Rated Power (kW)	Rated Voltage (V)					
0.75	0.75	110	1.0	400	175-380	7	0-599.00
1.5	1.5	110	1.95	400	175-380	10.6	0-599.00

PV300-2T Series: Input 150-450VDC,3 Phase150-230VAC Output, Suitable forAC220V Pumps

Solar Pump Inverter Power (kW)	Pump		Max solar power input (kW)	Max DC Input Voltage (V)	Recommended Voc voltage (V)	Rated Output Current (A)	Output frequency (Hz)
	Rated Power (kW)	Rated Voltage (V)					
0.75	0.75	220	1.0	450	360-430	4	0-599.00
1.5	1.5	220	1.95	450	360-430	7	0-599.00
2.2	2.2	220	2.86	450	360-430	10.6	0-599.00
4.0	4.0	220	4.81	450	360-430	17	0-599.00

PV300-4T Series:Input 250-800VDC, 3 Phase230-460VAC Output ,Suitable for AC380V Pumps

Solar Pump Inverter Power (kW)	Pump		Max solar power input (kW)	Max DC Input Voltage (V)	Recommended Voc voltage (V)	Rated Output Current (A)	Output frequency (Hz)
	Rated Power (kW)	Rated Voltage (V)					
0.75	0.75	380	1.0	800	620-750	2.5	0-599.00
1.5	1.5	380	2.2	800	620-750	3.8	0-599.00
2.2	2.2	380	3.3	800	620-750	5.1	0-599.00
4.0	4.0	380	5.0	800	620-750	10	0-599.00
5.5	5.5	380	8.0	800	620-750	14	0-599.00
7.5	7.5	380	10.0	800	620-750	18	0-599.00
11	11	380	14.3	800	620-750	26	0-599.00

Solar Pump Inverter Power (kW)	Pump		Max solar power input (kW)	Max DC Input Voltage (V)	Recommended Voc voltage (V)	Rated Output Current (A)	Output frequency (Hz)
	Rated Power (kW)	Rated Voltage (V)					
15	15	380	19.5	800	620-750	33	0-599.00
18.5	18.5	380	23.4	800	620-750	38	0-599.00
22	22	380	28.6	800	620-750	46	0-599.00
30	30	380	39.0	800	620-750	61	0-599.00
37	37	380	48.1	800	620-750	76	0-599.00

PV300-4T Series:Input 350-800VDC, 3 Phase230-460VAC Output ,Suitable for AC380V Pumps

Solar Pump Inverter Power (kW)	Pump		Max solar power input (kW)	Max DC Input Voltage (V)	Recommended Voc voltage (V)	Rated Output Current (A)	Output frequency (Hz)
	Rated Power (kW)	Rated Voltage (V)					
45	45	380	58.5	800	620-750	92	0-599.00
55	55	380	71.5	800	620-750	113	0-599.00
75	75	380	97.5	800	620-750	151	0-599.00
90	90	380	120	800	620-750	177	0-599.00
110	110	380	143	800	620-750	211	0-599.00
132	132	380	171.6	800	620-750	254	0-599.00
160	160	380	208	800	620-750	305	0-599.00
185	185	380	240.5	800	620-750	327	0-599.00
200	200	380	260	800	620-750	378	0-599.00
220	220	380	305	800	620-750	427	0-599.00
250	250	380	335	800	620-750	466	0-599.00
280	280	380	386	800	620-750	521	0-599.00
315	315	380	415	800	620-750	586	0-599.00
355	355	380	466	800	620-750	651	0-599.00
400	400	380	522.5	800	620-750	726	0-599.00
450	450	380	616	800	620-750	821	0-599.00
500	500	380	676	800	620-750	861	0-599.00
560	560	380	726	800	620-750	951	0-599.00
630	630	380	851	800	620-750	1101	0-599.00
710	710	380	959	800	620-750	1261	0-599.00



PV200

Solar Pump Inverter

This product is a mini inverter based on the market demand for small power, small size and easy speed regulation. As a compact inverter product with small volume and large capacity, it has significant advantages such as high power density, high EMC specification design and high reliability.

Power Range

0.4kW~22kW

Product Characteristics

01

Customised PQ curves

Based on the curves, it automatically calculates the parameters of most interest to the user, such as flow rate, daily flow rate, cumulative flow rate, daily power generation and cumulative power generation.



02

Intelligent IOT System

IoT data platform, wireless transmission technology (GPRS, Bluetooth or WIFI), intelligent judgement of water and fertiliser demand to achieve smart irrigation.



Technical Specifications

Power input	Rated input voltage	1T: 90V DC ~ 400V DC 2T: 150V DC~ 450V DC 4T: 250V DC ~800V DC
	Frequency	50Hz/60Hz±5%
	Voltage range	-15% ~ +15%, Voltage out-of-balance rate<3%
	Total Voc range (V) of recommended panels	1T Type:175-380VDC 2T Type:360-430VDC 4T Type:620-750VDC
Power output	Output voltage	3-phase:0%~rated input voltage, error < ±3%
	Output frequency	0 ~ 599.00Hz (Can be changed by parameter)
	Overload capacity	150% rated current/60s, 180% rated current/10s, 200% rated current/0.5s
Carrier frequency	1.0kHz ~ 16kHz	
Input & Output terminals	Analog input	1 way AI, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital input	4 way DI, DI4 can be equipped with high-speed pulse input as an option, 0~50kHz
	Analog output	1 way AO, 0 ~ 10V or 0/4 ~ 20mA are selectable
	Digital output	1 way DO, Pull-up voltage range: 5V~24V, Output Current Range: 0~20mA
	Relay output	2 relay output: T1(normally open and normally closed)、T2 (normally open) , Contact drive capability: AC250V, 3A; DC30V, 5A
Environment	Altitude	0~2000m. De-rate 1% for every 100m when the altitude is above 1000 meters
	Ambient temperature	-10℃ ~50℃ , The rated output current should be derated 1% for every 1℃ when the ambient is 40℃ ~50℃
	Relative humidity	5~95%, no condensation
	Vibration	Less than 5.9m/s² (0.6g)
	Storage temperature	-20℃ ~ +60℃

Configuration Parameters

PV200-1T Series:Input 90-400VDC, 3 Phase 110-230VAC Output,Suitable for AC110V Pumps

Solar Pump Inverter Power (kW)	Pump		Max solar power input (kW)	Max DC Input Voltage (V)	Recommended Voc voltage (V)	Rated Output Current (A)	Output frequency (Hz)
	Rated Power (kW)	Rated Voltage (V)					
0.75	0.75	110	1.0	400	175-380	7.0	0-599.00
1.5	1.5	110	1.95	400	175-380	9.6	0-599.00

PV200-2T Series: Input 150-450VDC,3 Phase150-230VAC Output, Suitable forAC220V Pumps

Solar Pump Inverter Power (kW)	Pump		Max solar power input (kW)	Max DC Input Voltage (V)	Recommended Voc voltage (V)	Rated Output Current (A)	Output frequency (Hz)
	Rated Power (kW)	Rated Voltage (V)					
0.4	0.4	220	0.55	450	360-430	2.3	0-599.00
0.75	0.75	220	1.0	450	360-430	4.0	0-599.00
1.5	1.5	220	1.95	450	360-430	7.0	0-599.00
2.2	2.2	220	2.86	450	360-430	9.6	0-599.00

PV200-4T Series:Input 250-800VDC, 3 Phase230-460VAC Output ,Suitable for AC380V Pumps

Solar Pump Inverter Power (kW)	Pump		Max solar power input (kW)	Max DC Input Voltage (V)	Recommended Voc voltage (V)	Rated Output Current (A)	Output frequency (Hz)
	Rated Power (kW)	Rated Voltage (V)					
0.4	0.4	380	0.6	800	620-750	1.5	0-599.00
0.75	0.75	380	1.0	800	620-750	2.5	0-599.00
1.5	1.5	380	2.2	800	620-750	3.8	0-599.00

Solar Pump Inverter Power (kW)	Pump		Max solar power input (kW)	Max DC Input Voltage (V)	Recommended Voc voltage (V)	Rated Output Current (A)	Output frequency (Hz)
	Rated Power (kW)	Rated Voltage (V)					
2.2	2.2	380	3.3	800	620-750	5.1	0-599.00
4.0	4.0	380	5.0	800	620-750	9.5	0-599.00
5.5	5.5	380	8.0	800	620-750	13	0-599.00
7.5	7.5	380	10.0	800	620-750	17	0-599.00
11	11	380	14.3	800	620-750	25	0-599.00
15	15	380	19.5	800	620-750	32	0-599.00
18.5	18.5	380	23.4	800	620-750	37	0-599.00
22	22	380	28.6	800	620-750	45	0-599.00



FG300B

Series VFD for Constant Pressure Water Supply



The FG300B series constant pressure water supply dedicated VFD employs advanced algorithms to ensure stable water pressure without fluctuations. It features multi-pump control that automatically adjusts according to water demand, resulting in significant energy savings. The comprehensive protection functions prevent pump overload and overpressure. The simple and intuitive operation interface facilitates easy debugging and monitoring. It is widely used in residential communities, hotels, and other similar venues.

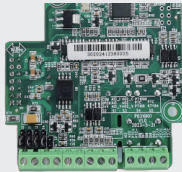
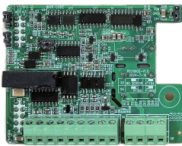
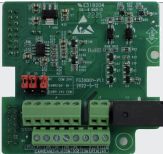

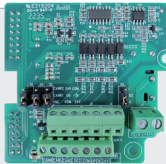


Power Range

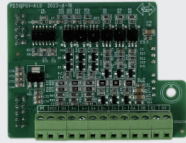
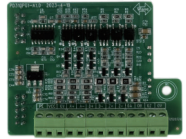
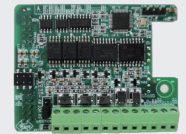
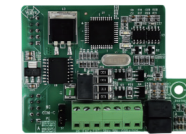
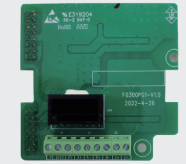
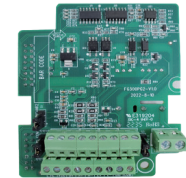
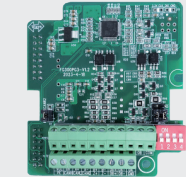
45kW~75kW

CONFIGURATION PARAMETERS






DIMENSIONS : 411*562*271mm

Input Voltage	Three phase 380V	Control method	Vector Control
Overload capability	150% of rated current 60 s	Protection level	IP20
Human-computer interface (HMI)	Water pressure real-time display	Main terminal	1 input terminal (R, S, T), 1 output terminal (U, V, W)
Control wire terminal	4 (or 5) DI control signals, 1 relay signal	Motor Parameter Recognition	Includes static and dynamic identification

Model	Appearances	Instructions	Applicable Models			
			FG300	FG310	FG270	FG300 IP54
IO Expansion Card						
PD310IO1		1 analog input (AI3) PT100/PT1000/KTY84 temperature detection 1 analog output (AO2) 4 digital inputs (DI6-DI9) 1 digital output (DO2) 2 relay outputs (T2, T3) Note: Cannot be used at the same time as the communication card		<div></div>		
PD310IO2		1 analog input (AI3) PT100/PT1000/KTY84 temperature detection 1 analog output (AO2) 4 digital inputs (DI6-DI9) 1 digital output (DO2) 2 relay outputs (T2, T3) Note: Cannot be used at the same time as PG card		<div></div>		
FG300IO1		CANopen communication PT100 temperature detection 4 digital input (DI6-DI9) 1 digital output (DO2) 1 normally open relay output (T2)	<div></div>		<div></div>	<div></div>
FG300IO2		CANopen communication 1 digital output (DO2) 1 normally open relay output (T2)	<div></div>		<div></div>	<div></div>
FG300IO3		CANopen communication 1 analog output (AO2) 4 digital inputs (DI6-DI9) 1 digital output (DO2) 1 normally open relay output (T2)	<div></div>		<div></div>	<div></div>
FG300IO4		1 normally open relay output (T2)	<div></div>		<div></div>	<div></div>
FG300IO5		2 normally open relay outputs (T2, T3)	<div></div>		<div></div>	<div></div>

Model	Appearances	Instructions	Applicable Models			
			FG300	FG310	FG270	FG300 IP54
PG Expansion Card						
PD310PG1-TTL		1:1 split frequency output (open collector)		<div></div>		
PD310PG1-HTL		Incremental Encoder (24V) 1:1 split frequency output (open collector)		<div></div>		
PD310PG2		Encoder power supply 5V or 8V Sine Cosine Encoder Sine-cosine with absolute encoder		<div></div>		
PD310PG3		Rotary transformer (ratio 0.5)		<div></div>		
FG300PG1		Incremental Encoders (5V/12V)	<div></div>		<div></div>	<div></div>
FG300PG2		CANopen communication Incremental encode (5V/12V) 1 analog output (AO2) 1 digital input (DI6) 1 normally open relay output (T2)	<div></div>		<div></div>	<div></div>
FG300PG3		CANopen communication Incremental encoder (5V) Crossover outputs (differential, push-pull, open collector outputs supported)	<div></div>		<div></div>	<div></div>

Model	Appearances	Instructions	Applicable Models			
			FG300	FG310	FG270	FG300 IP54
FG300PG4		CANopen communication Rotary Transformer PT100/PT1000 temperature detection 1 digital input (DI6) 1 analog output (AO2) 1 normally open relay output (T2)	●		●	●
Communication Expansion Card						
PD310PN1		Profinet communication		●		
PD310DP1		Profibus-DP communication		●		
PD310EN1		MODBUS TCP communication		●		
PD350EC1		EtherCAT communication		●		
PD350CAN1		CANopen communication		●		

Model	Appearances	Instructions	Applicable Models			
			FG300	FG310	FG270	FG300 IP54
Keyboard Accessories						
PD210KEY2		Single display Keyboard		<div></div>		
FG300KEY5		LCD Keyboard		<div></div>		
FG300KEY2		Dual Display Keyboard	<div></div>		<div></div>	<div></div>
PD310KEY7		Dual Display Keyboard		<div></div>		
Keyboard Tray		/	<div></div>	<div></div>	<div></div>	<div></div>

Due to the continuous upgrading of our company's products, if there are any changes in the content, we will not notify separately.

All rights reserved @ Hunan Fugong Power Technology Co., Ltd.

Hunan Fugong Power Technology Co., Ltd.

Add1:3rd Floor, Building c1, jinrong Enterprise Park, No.858, Prisi Road, Wangcheng District,Changsha city,Hunan Province, china

ChinaPhone:400-000-1628

Website:<http://www.fugong.com>