Learn more visiting the official website:

www.szeasydrive.com

EASYDRIVE

Product Catalogue

Shenzhen Easydrive Electric Co., Ltd

Company Profile

About Us

Shenzhen Easydrive Electric Co., Ltd was founded in 2004. It is a Shenzhen Double Soft Enterprise and National High-tech Enterprise. The company focuses on the R&D of variable frequency speed control systems and other power electronic drive technologies and production and sales. It possesses core technical platforms such as high-performance vector variable frequency control technology and power electronic drive technology, enabling it to quickly provide customers with more precise and cutting-edge personalized solutions. It continuously strives to provide customers with value-added products and services, achieving the common growth of enterprise value and customer value.

The annual production capacity of the Easydrive' s factory exceeds 600,000 units, and products are exported to more than 50 countries and regions. It has won the title of "Top 10 Domestic Brands of Low-Voltage Frequency Inverter" for several consecutive times. The company's products are widely used in industries such as municipal services, logistics, HVAC, building materials, plastic, textile, machine tools, chemical industry, cables, printing, packaging, electronic equipment, metallurgy and coal mines.

Pre-sales service

Technical solution analysis, frequency conversion selection;
Products and software can be customized according to customer requirements.

After-sales service

Effectiveness tracking, fault repair, software upgrade

Pre-sale service

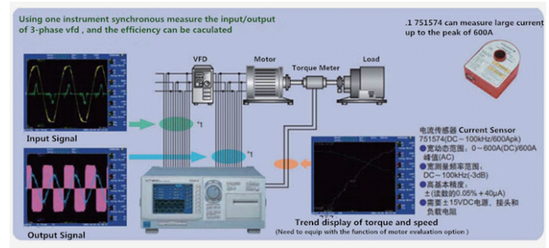
Timely delivery, technical training, installation and commissioning

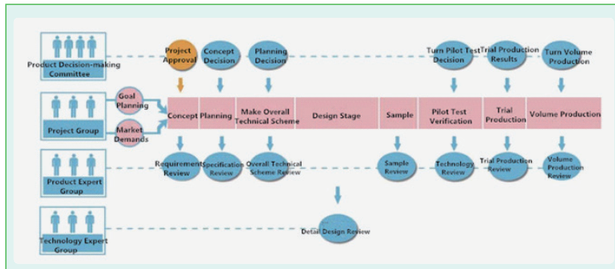
Strong Development Ability

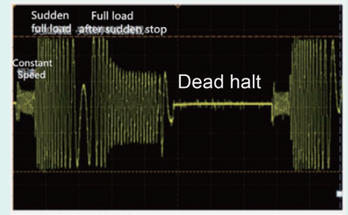
Easydrive is a national high-tech enterprises that technical innovation is the life. We adopt advance IPD development process to fully implement strict product planning and test validation from product demand entry to market launch, To ensure rapid, accurate and reliable convert customer requirements into the product.

Technical Core

- Magnetic flux observation technology Weak magnetic algorithm
- Voltage vector Current vector control algorithm
- Accurate parameter self-tuning
- Wave-by-wave current limiting control technology







All-around Technical Testing And Verification Based on Site

Motor Performance Testing Platform

Motor performance for the drive test platform

Motor performance for the drive test platform

Environmental testing platform

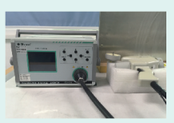
Power Analyzer

Electrical stress testing instrument

Environmental testing chamber

EMC testing platform

High-frequency noise simulation generator



Electrostatic discharge generator

Fully automatic lightning strike surge tester

Intelligent group pulse generator

The Advantage Of The Supply Chain

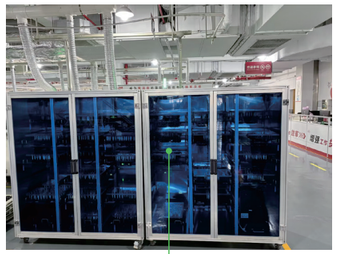
Easydrive electric always proceed with strict quality management ,Optimizing the production process diligently, applying advanced ERP management system to integrate orders、procurement、Production and coordination of logistics，to ensure the delivery of accurate、timely and reliable. At present it has formed annual production of 600,000 inverters with excellent manufacture supply capacity.

- The advantages of the supply chain

Reliable Quality Guarantee
System: ISO9001 Quality System Certification

Advanced Production Equipment
Guarantee: Three Anti-automatic Coating Apparatus,Automatic Module Welding Equipment,Automatic Production Line

Strict Test Methods
Guarantee: All kinds of Auto, Semi-auto Test Equipment



PCBA testing fixture and jig cabinet

PCBA production line

PCBA automatic testing

Fully automatic UV coating equipment - 1

Automatic testing equipment for medium and high-power frequency converters as a whole

Fully automatic UV coating equipment - 2

Electronic welding processing line

GT600 High-performance current vector frequency inverter

Production Introduction

The GT600 series is a universal high-performance vector inverter with flexible configuration, easy operation, strong expandability, and reliable communication for fast multi-unit networking. It controls the speed and torque of AC and permanent magnet motors and is widely used in cable machinery, machine tools, metal processing, petrochemicals, lifting equipment, paper, textiles, ceramics, and various automated production lines.

Asynchronous motor VF

- Starting torque reaches 150% at 3 Hz.
- Automatic torque boost enables 150% load at 1 Hz.
- Upgraded overcurrent suppression function
- Fully upgraded overvoltage suppression function
- Newly designed ride-through

Asynchronous motor Open-loop vector

- Flux and speed tracking enables faster and more stable response.
- Capable of handling a sudden 150% load at 0.25 Hz, with a speed regulation range of 1:250.
- Zero-speed hovering
- No brake for forward and reverse operation

Synchronous motor Open-loop vector

- Speed tracking delivers faster and more stable response.
- Capable of handling a sudden 150% load at 0.5 Hz, with a speed regulation range of 1:100.
- Zero-speed hovering
- No brake for forward and reverse rotation

Intelligent Full Drive

GT600 adopts a main-CPU + co-CPU + co-CPLD control architecture, supporting Sigma-Delta digital current sampling and multiple encoder decoding methods. It provides position, speed, and torque loop control, enabling seamless transformation from single-machine to multi-machine operation.

Intelligent Full-Drive

· Intelligent Fault Predictionand Analysis
· Synchronous motor closed-loop/ open-loop vector
· Asynchronous motor closed-loop/ open-loop vector/VF

Easy Operation

· Miniaturized body design
· 4 parameter download methods
· Extensive communication expansion cards

Rich Configuration

·Abundant expansioncards
·Dualcommunication, dual encoders
·3 nativekeyboards + 3 external keyboards

Safe and Reliable

·New hardware circuit design
·Improved EMC capabilities
·Independent airflow design for highheat dissipation efficiency

Wide Application

·Cables, machinetools, metal products
·Petrochemicals, naturalgas, lifting equipment
·Pulpandpaper, textiles, printingand dyeing, ceramics, etc.

GT600 High-performance current vector frequency inverter

Product selection

Item		Specification					
Model：GT600		4T0004G/ 4T0007PB	4T0007G/ 4T0011PB	4T0011G/ 4T0015PB	4T0015G/ 4T0022PB	4T0022G/ 4T0030PB	4T0030G/ 4T0040PB
Structure		SIZE A					
Output	Power(kW) （(G)	0.4	0.75	1.1	1.5	2.2	3.0
	Power(kW) (P)	0.75	1.1	1.5	2.2	3.0	4.0
	Rated Output Current(A)	1.6	3	3.5	4.5	6	7.5
	Output Voltage	Three Phase 0~input voltage					
	Maximum Output Frequency	599Hz（Adjustable via parameters）					
	Carrier Frequency	0.5kHz~16.0kHz（Auto-adjust carrier frequency by load characteristics）					
	Overload Capacity	G: 150% rated current for 60 seconds; P: 110% rated current for 60 seconds					
Input	Rated Input Current(A)	2.2	4.4	5.0	6.0	7.5	9.5
	Rated Voltage/Frequency	AC：Three Phase380~480V，50/60Hz					
	Allowed Voltage Range	-15%~10%，AC 323V~528V					
	Allowed Frequency Range	±5%，47.5Hz~63Hz					
	Power Capacity(kVA)	2	2.8	4.1	5	6.7	9.5
Thermal design	Airflow Rate(CFM)	-	-	-	9	9	9
Pullution Level	PD2						
Protection Level	IP20（open type，IP Rating is applicable to IEC-compliant products）						

Item		Specification				
Model：GT600		4T0040G/ 4T0055PB	4T0055G/ 4T0075PB	4T0075G/ 4T0110PB	4T0110G/ 4T0150PB	4T0150G/ 4T0185PB
Structure		SIZE B		SIZE C		SIZE D
Output	Power(kW) （(G)	4.0	5.5	7.5	11	15
	Power(kW) (P)	5.5	7.5	11	15	18
	Rated Output Current(A)	9.5	13	17	25	32
	Output Voltage	Three Phase 0~input voltage				
	Maximum Output Frequency	599Hz（Adjustable via parameters）				
	Carrier Frequency	0.5kHz~16.0kHz（Auto-adjust carrier frequency by load characteristics）				
	Overload Capacity	G: 150% rated current for 60 seconds; P: 110% rated current for 60 seconds				
Input	Rated Input Current(A)	11	15.5	20.5	26	35
	Rated Voltage/Frequency	AC：Three Phase380~480V，50/60Hz				
	Allowed Voltage Range	-15%~10%，AC 323V~528V				
	Allowed Frequency Range	±5%，47.5Hz~63Hz				
	Power Capacity(kVA)	12	17.5	22.8	33.4	42.8
Thermal design	Airflow Rate(CFM)	20	24	30	40	42
Pullution Level	PD2					
Protection Level	IP20（open type，IP Rating is applicable to IEC-compliant products）					

GT600 High-performance current vector frequency inverter

Product selection

Item		Specification			
Model：GT600		4T0185G/ 4T0220PBL	4T0220G/ 4T0300PBL	4T0300G/ 4T0370PL	4T0370G/ 4T0450PL
Structure		SIZE E		SIZE F	
Output	Power(kW) （(G)	18.5	22	30	37
	Power(kW) (P)	22	30	37	45
	Rated Output Current(A)	37	45	60	75
	Output Voltage	Three Phase 0~input voltage			
	Maximum Output Frequency	599Hz（Adjustable via parameters）			
	Carrier Frequency	0.5kHz~16.0kHz（Auto-adjust carrier frequency by load characteristics）			
	Overload Capacity	G: 150% rated current for 60 seconds; P: 110% rated current for 60 seconds			
Input	Rated Input Current(A)	38.5	46.5	62	76
	Rated Voltage/Frequency	AC：Three Phase380~480V，50/60Hz			
	Allowed Voltage Range	-15%~10%，AC 323V~528V			
	Allowed Frequency Range	±5%，47.5Hz~63Hz			
	Power Capacity(kVA)	33	39	52	42.8
Thermal design	Airflow Rate(CFM)	52	57	118	118
Pullution Level	PD2				
Protection Level	IP20（open type，IP Rating is applicable to IEC-compliant products）				

Item		Specification							
Model：GT600		4T0450G/ 4T0550PL	4T0550G/ 4T0650PL	4T0650G/ 4T0750PL	4T0750G/ 4T0950PL	4T0900G/ 4T1100PL	4T1100G/ 4T1320PL	4T1320G/ 4T1600PL	4T1600G/ 4T1850PL
Structure		SIZE G		SIZE H				SIZE I	
Output	Power(kW) （(G)	45	55	65	75	90	110	132	160
	Power(kW) (P)	55	65	75	90	110	132	160	185
	Rated Output Current(A)	90	110	130	152	176	210	253	300
	Output Voltage	Three Phase 0~input voltage							
	Maximum Output Frequency	599Hz（Adjustable via parameters）							
	Carrier Frequency	0.5kHz~16.0kHz（Auto-adjust carrier frequency by load characteristics）							
	Overload Capacity	G: 150% rated current for 60 seconds; P: 110% rated current for 60 seconds							
Input	Rated Input Current(A)	92	113	134	157	180	214	256	305
	Rated Voltage/Frequency	AC：Three Phase380~480V，50/60Hz							
	Allowed Voltage Range	-15%~10%，AC 323V~528V							
	Allowed Frequency Range	±5%，47.5Hz~63Hz							
	Power Capacity(kVA)	81	97	110	127	150	180	220	263
Thermal design	Airflow Rate(CFM)	122.2	122.2	218.6	218.6	287.2	354.2	547	627
Pullution Level	PD2								
Protection Level	IP20（open type，IP Rating is applicable to IEC-compliant products）								

GT600 High-performance current vector frequency inverter

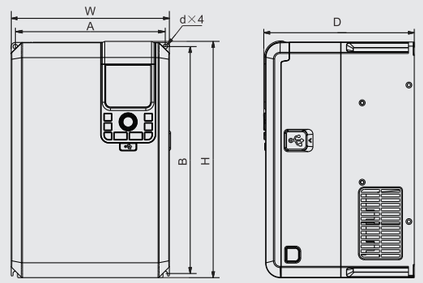
Product selection

Item		Specification					
Model：GT600		4T1850G/ 4T2000PL	4T2000G/ 4T2200PL	4T2000G/ 4T2500PL	4T2500G/ 4T2800PL	4T2800G/ 4T3150PL	4T3150G/ 4T3550PL
Structure		SIZE J		SIZE K			
Output	Power(kW) （(G)	185	200	220	250	280	315
	Power(kW) (P)	200	220	250	280	315	355
	Rated Output Current(A)	340/380	380/420	420/480	480/540	540/600	600/680
	Output Voltage	Three Phase 0~input voltage					
	Maximum Output Frequency	599Hz（Adjustable via parameters）					
	Carrier Frequency	0.5kHz~16.0kHz（Auto-adjust carrier frequency by load characteristics）					
	Overload Capacity	G: 150% rated current for 60 seconds; P: 110% rated current for 60 seconds					
Input	Rated Input Current(A)	344	383	425	484	543	605
	Rated Voltage/Frequency	AC：Three Phase380~480V，50/60Hz					
	Allowed Voltage Range	-15%~10%，AC 323V~528V					
	Allowed Frequency Range	±5%，47.5Hz~63Hz					
	Power Capacity(kVA)	278	334	375	404	453	517
Thermal design	Airflow Rate(CFM)	861.28	861.28	1291.92	1291.92	1291.92	1291.92
Pullution Level	PD2						
Protection Level	IP20（open type，IP Rating is applicable to IEC-compliant products）						

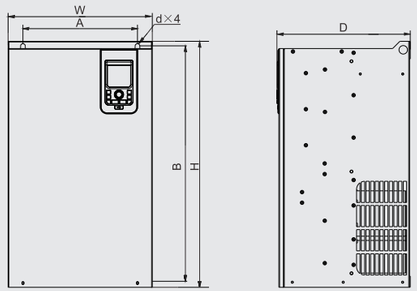
Item		Specification			
Model：GT600		4T3550G/ 4T3750PL	4T3750G/ 4T4000PL	4T4000G/ 4T4500PL	4T4500G/ 4T5000PL
Structure		SIZE L			
Output	Power(kW) （(G)	355	375	400	450
	Power(kW) (P)	375	400	450	500
	Rated Output Current(A)	680/710	710/750	750/860	860/920
	Output Voltage	Three Phase 0~input voltage			
	Maximum Output Frequency	599Hz（Adjustable via parameters）			
	Carrier Frequency	0.5kHz~16.0kHz（Auto-adjust carrier frequency by load characteristics）			
	Overload Capacity	G: 150% rated current for 60 seconds; P: 110% rated current for 60 seconds			
Input	Rated Input Current(A)	683	714	753	864
	Rated Voltage/Frequency	AC：Three Phase380~480V，50/60Hz			
	Allowed Voltage Range	-15%~10%，AC 323V~528V			
	Allowed Frequency Range	±5%，47.5Hz~63Hz			
	Power Capacity(kVA)	565	596	629	715.5
Thermal design	Airflow Rate(CFM)	1291.92	1291.92	1291.92	1291.92
Pullution Level	PD2				
Protection Level	IP20（open type，IP Rating is applicable to IEC-compliant products）				

GT600 High-performance current vector frequency inverter

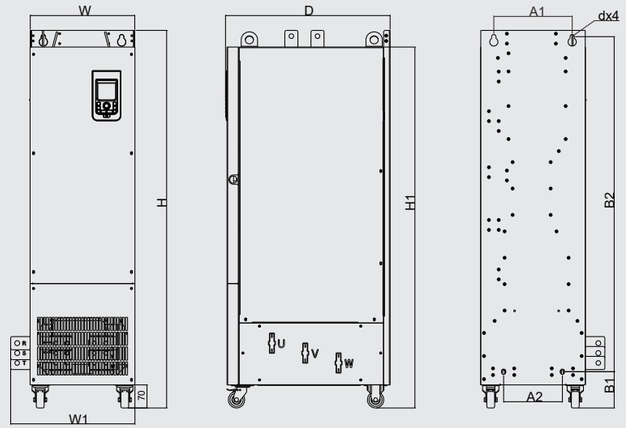
Appearance and installation dimensions



SIZE A~SIZE F
Installation dimension diagram

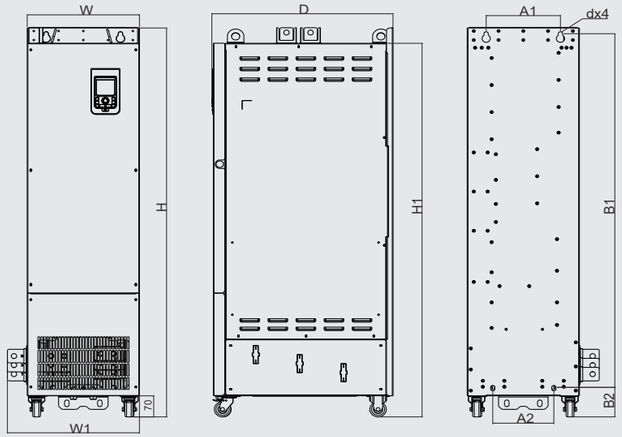


SIZE G~SIZE I
Installation dimension diagram

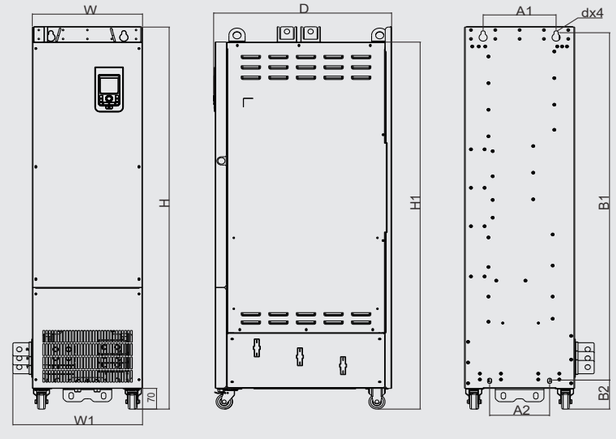


SIZE J Installation dimension diagram

Appearance and installation dimensions



SIZE K Installation dimension diagram



SIZE L Installation dimension diagram

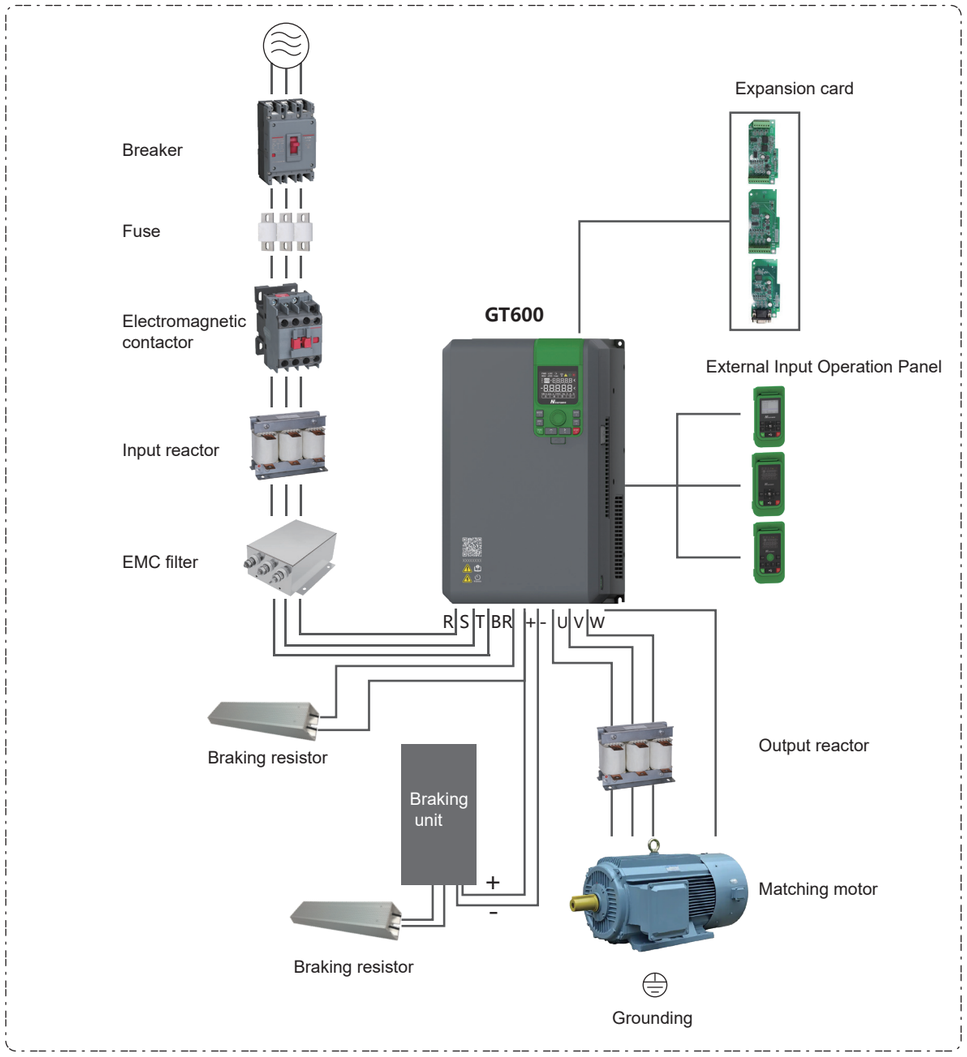
Appearance and installation dimensions

Shape and structure	Model	Installation holes (mm)		Dimensions of the shape (mm)			Ø (mm)
		A	B	H	W	D	d×4
SIZE A	GT600-4T0004G/0007PB~ 4T0030G/0040PB	119	194	205	130	160	Ø5
SIZE B	GT600-4T0040G/0055PB~ 4T0055G/0075PB	119	194	205	130	170	Ø5
SIZE C	GT600-4T0075G/0110PB~ 4T0110G/0150PB	144	244	254	155	181.5	Ø5.5
SIZE D	GT600-4T0150G/0185PB	182	275	285	192	181.5	Ø5.5
SIZE E	GT600-4T0185G/0220PBL~ 4T0220G/0300PBL	198	338	350	210	210	Ø5.5
SIZE F	GT600-4T0300G/0370PL~ 4T0370G/0450PL	240	395	410	260	248	Ø7

Shape and structure	Model	Installation holes (mm)		Dimensions of the shape (mm)			Ø (mm)
		A	B	H	W	D	d×4
SIZE G	GT600-4T0450G/0550PL~ 4T0550G/0650PL	240	520	540	300	277	Ø9
SIZE H	GT600-4T0650G/0750PL~ 4T1100G/1320PL	270	560	580	340	314.5	Ø10
SIZE I	GT600-4T1320G/1600PL~ 4T1600G/1850PL	300	890	915	400	323.5	Ø10

Shape and structure	Model	Installation holes (mm)				Dimensions of the shape (mm)					Ø (mm)
		A1	A2	B1	B2	H	H1	W1	W2	D	d×4
SIZE J	GT600-4T1850G/2000PL~ 4T2200G/2500PL	246.5	180	1016	110	1145	1094	320	380.5	505	Ø13
SIZE K	GT600-4T2500G/2800PL~ 4T3150G/3550PL	225	185	1175	98	1292	1241.5	340	400	550	Ø13
SIZE L	GT600-4T3550G/3750PL~ 4T4500G/5000PL	240	200	1276.5	121.5	1417	1364.5	340	403	550	Ø15.5

System connection diagram



Technical Specifications

Control Performance

Types of driveable motors		Asynchronous induction motor（IM), Permanent magnet synchronous motor（PMSM)
Control Mode		Open-Loop Vector Control（SVC), Closed-loop vector control（FVC）, V/F Control
Asynchronous motor VF	Function	Overvoltage/Overcurrent/oscillation suppression, ride through torque boost, slip compensation, V/F options, V/F separation, DC braking, random PWM, fast decel, droop control, Auto-tuning, Speed tracking.
Asynchronous motor FVC	Function	Master-slave control, Overvoltage suppression, Torque control, Ride-through, Auto-tuning, etc.
	Encoder	Communication encoders, ABZ encoders (differential, open-collector, push-pull), Resolver encoders
	Starting Torque	0Hz/180%（FVC)
	Speed control accuracy	0.02%
	Speed fluctuation	0.05%
	Torque control accuracy	±2%
Asynchronous motor SVC	Function	Master-slave control, Overvoltage suppression, DC braking, Torque control, Ride through Auto-tuning, Speed tracking etc.
	Speed range	1:250 （SVC)
	Starting torque	0.25Hz/150%（SVC)
	Torque control accuracy	5Hz above ±3%
	Speed control accuracy	0.05%

Control performance

Synchronous Motor FVC	Function	Master-Slave Control, Overvoltage Suppression, Torque Control, Ride-Through,Auto-Tuning etc.
	Encoder	Communication encoders, ABZ encoders (differential, open-collector, push-pull), Resolver encoders
	Starting torque	0Hz/180%（FVC)
	Speed control accuracy	0.02%(with defect-free motor and encoder)
	Speed Range	0.05% (with defect-free motor and encoder)
	Torque control accuracy	±2%
Synchronous Motor SVC	Fucnction	Master-Slave Control, Overvoltage Suppression, DC Braking, Torque Control, Ride-Through, Auto-Tuning, Speed Tracking
	Speed range	1:100 （SVC)
	Starting torque	0.5Hz/150%（SVC)
	Torque control accuracy	5Hz above ±3%
	Speed control accuracy	0.05%

Customized Functions

Free Programming	bit/word conversion, single/dual-word conversion, logic operations (AND, OR, NOT, XOR, XNOR), arithmetic operations (fixed-/floating-point add, subtract, multiply, divide, absolute value, comparison), selector switching, filtering, logic delay, multi-point curves, and constant values.
Self-diagnosis	Inverter and motor diagnostics: IGBT shoot-through, ground fault, phase loss, and inter-phase short-circuit self-check.
PC Configuration Software	DriveStudio supports parameter upload/download, oscilloscope functions, remote debugging, and fault diagnostics, enabling real-time monitoring of inverter internal states.

GT600 High-performance current vector frequency inverter

Technical Specifications

Basic Functions

Command Channel		Controls motor start/stop, including DI/DO, virtual DI/DO, external expansion card DI/DO; 4 motor parameters switching; control parameters switching; free-programming of start/stop commands.
Reference Channel	Input Frequency Resolution	Digital setting：0.01Hz
		Simulation setting: The maximum frequency x 0.1%
	Speed/Torque Reference	Acceleration/deceleration curves, multi-stage dynamic accel/decel switching, S-curve accel/decel, external PID reference, AI (2 channels, 0-10V/0–20mA) speed/torque reference, pulse references (HDI1/HDI2), multi-segment setpoints, and user-programmable speed/torque reference.
Communication Protocol		7 communication protocols： Modbus (RTU/TCP), ProfibusDP, CAN, CANopen, Profinet and EtherCAT
Output Limit		Torque, power, and current limits, maximum torque limit, speed limit, and frequency hopping.
Process Control	PID	Sleep mode, configurable reference and feedback sources, two-stage PID switching, feedback loss detection, configurable output limits, and flexible initialization settings.
Protection		Inverter and motor protection, including overvoltage, overcurrent, overload, motor overheating (PT 100, PT1000, KTY84-130), load-loss protection, automatic fault reset, and auto-restart.

Operation

Process Control	Panel, terminals, and serial communication command (multi-switchable).
Frequency Command	14 frequency commands: digital, analog current (V/I), pulse, and serial communication command (multi-switchable).
Auxiliary Frequency Command	14 auxiliary frequency commands enables flexible fine-tuning and frequency synthesis.
Input Terminal	Standard: 4 DI, 2 HDI, 2 AI terminals; AI 1/AI 2 support 0–10V or 0–20mA input; AI 2 also supports temperature input (switchable via DIP switch).
Output Termina	Standard: 2 AO terminals; support 0-20mA or 0-10V output; 2 relay outputs terminals, 1 HDO (Selectable as high-speed pulse or standard DO.)

Display& Keypad

LED Panel Display	Displays and modifies parameters; shows inverter status (forward/reverse/stop, panel/terminal/ communication control, speed/torque control, etc.).
Key Lock & Function Select	Optional: Chinese/English prompts (LCD only) and parameter modification.
External LCD/LED Panel Display	Partial key lock and definable key functions to prevent misoperation.

Enviroment

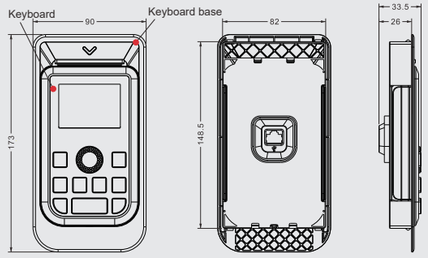
Usage environment	Indoor, no suffer from sun, dust, corrosive gas, flammable gas, oil, fog, steam, dripping water, or salt etc.
Altitude	No derating below 1000m; above, reduce 1% per 100m. Max altitude 3000m (SIZE A: 2000m). Above max, contact manufacturer.
Ambient temperature	-10℃ ~+50℃, between 40–50℃, derating is required. For every 1℃ increase, reduce
Humidity	<95%RH，No condensation
Vibration	<5.9m/s² （0.6g）
Storage temperature	- 20℃~ + 65℃

GT600 High-performance current vector frequency inverter

LED Keyboard Instructions

Model	Description	Appearance
GT600RLCDE0	External keyboard，LCD，English	
GT600RLCDC0	External keyboard，LCD，Chinese，(Standard version)	

Model	Description	Appearance
GT600RLEDN1	External keyboard，LCD，English	
GT600RLEDN0	External keyboard，LCD，Chinese，(Standard version)	

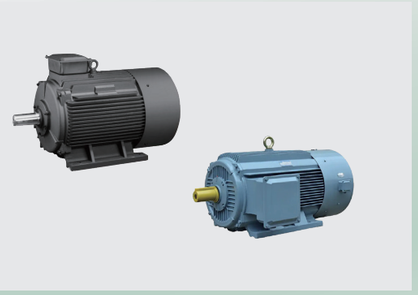


Base installation dimensions：82*148.5mm

GT500 General Purpose Frequency Inverter

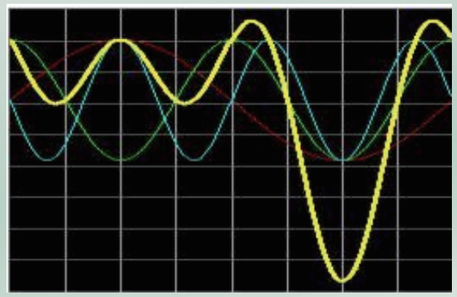
Product Introduction

The GT500 series frequency inverter is a general-purpose, high-performance and cost-effective open-loop vector (SVC) inverter. It is used to control the speed and torque of three-phase AC asynchronous motors and permanent magnet synchronous motors (PMSM).It is widely applied in textile, papermaking, filament drawing, machine tools, packaging, food processing, fans, water pumps, and other automated production equipment.



Supports various motor and load types

The GT500 supports standard three-phase asynchronous motors, inverter-duty motors, and permanent magnet synchronous motors (PMSM), meeting diverse application needs.



Wide input voltage range

Input voltage: 380–480 VAC, with a tolerance of -15% to +10% (323–528 VAC), ensuring reliable operation under voltage fluctuations and harsh grid conditions.

Software suppression function

Supports undervoltage, overvoltage, and overcurrent suppression to enhance system stability and extend equipment lifespan.

Flexible expansion capability

Multiple expansion interfaces for flexible customization. Standard Modbus-RTU communication, with optional support for PROFIBUS-DP, CANopen, EtherCAT, PROFINET, and Modbus-TCP.

GT500 General Purpose Frequency Inverter

Product selection

Item		Specifications					
Model：GT500		4T0004G/ 4T0007PB	4T0007G/ 4T0011PB	4T0011G/ 4T0015PB	4T0015G/ 4T0022PB	4T0022G/ 4T0030PB	4T0030G/ 4T0040PB
Structure		SIZE A					
Output	Power(kW) (G)	0.4	0.75	1.1	1.5	2.2	3.0
	Power(kW) (P)	0.75	1.1	1.5	2.2	3.0	4.0
	Rated output current(A)(G/P)	1.6/3	3/3.5	3.5/4.5	4.5/6	6/7.5	7.5/9.5
	Output voltage	Three Phase 0~input voltage					
	Output frequency (max.)	599Hz（Adjustable via parameters）					
	Carrier Frequency	0.5kHz~16.0kHz（Auto-adjust carrier frequency by load characteristics）					
	Overload Capacity	G: 150% rated current for 60 seconds; P: 110% rated current for 60 seconds					
Input	Rated Input Current(A)(G/P)	2.2/4.4	4.4/5.0	5.0/6.0	6.0/7.5	7.5/9.5	9.5/11
	Rated Voltage/Frequency	AC：Three Phase 380~480V，50/60Hz					
	Allowed Voltage Range	-15%~10%，Actual allowable range：AC 323V~528V					
	Allowed Frequency Range	±5%，Actual allowable range：47.5Hz~63Hz					
	Power Capacity (kVA)	2	2.8	4.1	5	6.7	9.5
Cooling design	Airflow Rate ((CFM)	-	-	-	9	9	9
OVC	OVCIII						
Protection Level	IP20（open type，IP Rating is applicable to IEC-compliant products）						

Item		Specifications				
Model：GT500		4T0040G/ 4T0055PB	4T0055G/ 4T0075PB	4T0075G/ 4T0110PB	4T0110G/ 4T0150PB	4T0150G/ 4T0185PB
Structure		SIZE B		SIZE C		SIZE D
Output	Power(kW) (G)	4.0	5.5	7.5	11	15
	Power(kW) (P)	5.5	7.5	11	15	18
	Rated output current(A)(G/P)	9.5/13	13/17	17/25	25/32	32/37
	Output voltage	Three Phase 0~input voltage				
	Output frequency (max.)	599Hz（（Adjustable via parameters）				
	Carrier Frequency	0.5kHz~16.0kHz（Auto-adjust carrier frequency by load characteristics）				
	Overload Capacity	G: 150% rated current for 60 seconds; P: 110% rated current for 60 seconds				
Input	Rated Input Current(A)(G/P)	11/15.5	15.5/20.5	20.5/26	26/35	35/38.5
	Rated Voltage/Frequency	AC：Three Phase380~480V，50/60Hz				
	Allowed Voltage Range	-15%~10%，Actual allowable range：AC 323V~528V				
	Allowed Frequency Range	±5%，Actual allowable range：47.5Hz~63Hz				
	Power Capacity (kVA)	12	17.5	22.8	33.4	42.8
Cooling design	Airflow Rate ((CFM)	20	24	30	40	42
OVC	OVCIII					
Protection Level	IP20（open type，IP Rating is applicable to IEC-compliant products）					

GT500 General Purpose Frequency Inverter

Product selection

Item		Specifications					
Model：GT500		4T0185G/ 4T0220PB	4T0220G/ 4T0300PB	4T0300G/ 4T0370P	4T0370G/ 4T0450P	4T0450G/ 4T0550P	4T0550G/ 40650P
Structure		SIZE E		SIZE F		SIZE G	
Output	Power(kW) (G)	18.5	22	30	37	45	55
	Power(kW) (P)	22	30	37	45	55	65
	Rated output current(A)(G/P)	37/45	45/60	60/75	75/90	90/110	110/130
	Output voltage	Three Phase 0~input voltage					
	Output frequency (max.)	599Hz（Adjustable via parameters）					
	Carrier Frequency	0.5kHz~16.0kHz（Auto-adjust carrier frequency by load characteristics）					
	Overload Capacity	G: 150% rated current for 60 seconds; P: 110% rated current for 60 seconds					
Input	Rated Input Current(A)(G/P)	38.5/46.5	46.5/62	62/76	76/92	92/113	113/134
	Rated Voltage/Frequency	AC：Three Phase 380~480V，50/60Hz					
	Allowed Voltage Range	-15%~10%，Actual allowable range：AC 323V~528V					
	Allowed Frequency Range	±5%，Actual allowable range：47.5Hz~63Hz					
	Power Capacity (kVA)	33	39	52	63	81	97
Cooling design	Airflow Rate ((CFM)	52	57	118	118	122.2	122.2
OVC	OVCIII						
Protection Level	IP20（open type，IP Rating is applicable to IEC-compliant products）						

Item		Specifications					
Model：GT500		4T0650G/ 4T0750P	4T0750G/ 4T0900P	4T0900G/ 4T1100P	4T1100G/ 4T1320P	4T1320G/ 4T1600P	4T1600G/ 4T1850P
Structure		SIZE H				SIZE I	
Output	Power(kW) (G)	65	75	90	110	132	160
	Power(kW) (P)	75	90	110	132	160	185
	Rated output current(A)(G/P)	130/152	152/176	176/210	210/253	253/300	300/340
	Output voltage	Three Phase 0~nput voltage					
	Output frequency (max.)	599Hz（Adjustable via parameters）					
	Carrier Frequency	0.5kHz~16.0kHz（Auto-adjust carrier frequency by load characteristics）					
	Overload Capacity	重G: 150% rated current for 60 seconds; P: 110% rated current for 60 seconds					
Input	Rated Input Current(A)(G/P)	134/157	157/180	180/214	214/256	256/305	305/344
	Rated Voltage/Frequency	AC：Three Phase 380~480V，50/60Hz					
	Allowed Voltage Range	-15%~10%，Actual allowable range：AC 323V~528V					
	Allowed Frequency Range	±5%，Actual allowable range：47.5Hz~63Hz					
	Power Capacity (kVA)	33	39	52	63	81	97
Cooling design	Airflow Rate ((CFM)	52	57	118	118	122.2	122.2
OVC	OVCIII						
Protection Level	IP20（open type，IP Rating is applicable to IEC-compliant products）						

GT500 General Purpose Frequency Inverter

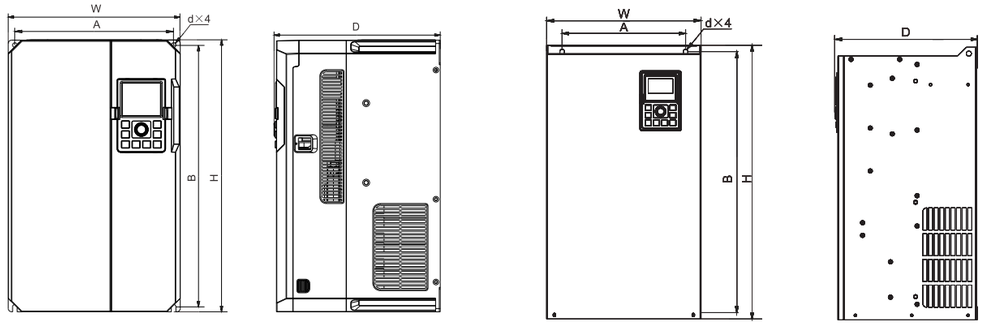
Product selection

Item		Specifications					
Model：GT500		4T1850G/ 2000PL	4T2000G/ 2200PL	4T2200G/ 2500PL	4T2500G/ 2800PL	4T2800G/ 3150PL	4T3150G/ 3550PL
Structure		SIZE J			SIZE K		
Output	Power(kW) (G)	185	200	220	250	280	315
	Power(kW) (P)	200	220	250	280	315	355
	Rated output current(A)(G/P)	340/380	380/420	420/480	480/540	540/600	600/680
	Output voltage	Three Phase 0~input voltage					
	Output frequency (max.)	599Hz（Adjustable via parameters）					
	Carrier Frequency	0.5kHz~16.0kHz（Auto-adjust carrier frequency by load characteristics）					
	Overload Capacity	G: 150% rated current for 60 seconds; P: 120% rated current for 60 seconds					
Input	Rated Input Current(A)(G/P)	344	383	425	484	543	605
	Rated Voltage/Frequency	AC：Three Phase380~480V，50/60Hz					
	Allowed Voltage Range	-15%~10%，实际允许范围：AC 323V~528V					
	Allowed Frequency Range	±5%，实际允许范围：47.5Hz~63Hz					
	Power Capacity (kVA)	278	334	334	404	453	517
Cooling design	Airflow Rate ((CFM)	861.28	861.28	861.28	1291.92	1291.92	1291.92
OVC	OVCIII						
Protection Level	IP20（open type，IP Rating is applicable to IEC-compliant products）						

Item		Specifications			
Model：GT500		4T3550G/ 3750PL	4T3750G/ 4000PL	4T4000G/ 4500PL	4T4500G/ 5000PL
Structure		SIZE L			
Output	Power(kW) (G)	355	375	400	450
	Power(kW) (P)	375	400	450	500
	Rated output current(A)(G/P)	680/710	710/750	750/860	860/920
	Output voltage	Three Phase 0~input voltage			
	Output frequency (max.)	599Hz（Adjustable via parameters）			
	Carrier Frequency	0.5kHz~16.0kHz（Auto-adjust carrier frequency by load characteristics）			
	Overload Capacity	G: 150% rated current for 60 seconds; P: 120% rated current for 60 seconds			
Input	Rated Input Current(A)(G/P)	683	714	753	864
	Rated Voltage/Frequency	AC：Three Phase380~480V，50/60Hz			
	Allowed Voltage Range	-15%~10%，Actual allowable range：AC 323V~528V			
	Allowed Frequency Range	±5%，Actual allowable range：47.5Hz~63Hz			
	Power Capacity (kVA)	565	596	629	715.5
Cooling design	Airflow Rate ((CFM)	1291.92	1291.92	1291.92	1291.92
OVC	OVCIII				
Protection Level	IP20（open type，IP Rating is applicable to IEC-compliant products）				

GT500 General Purpose Frequency Inverter

Appearance and installation dimensions



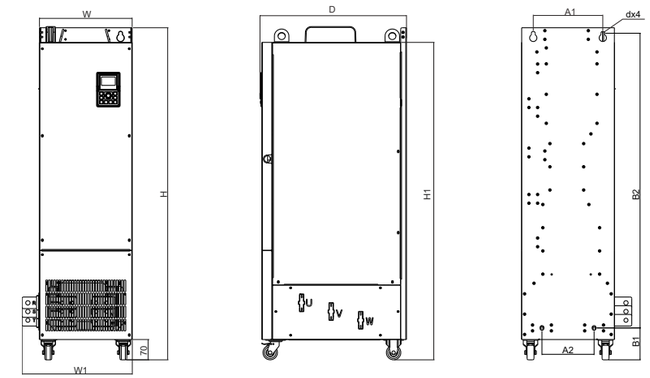
SIZE A~SIZE F Installation dimension diagram

SIZE G~SIZE I Installation dimension diagram

Model	Structure	Power（kW）	Mounting holes（mm）		Overall dimensions（mm）			Ø(mm)
			A	B	H	W	D	d×4
GT500-4T0004G/0007PB	SIZE A	0.4~3.0kW	119	194	205	130	160	Ø5
GT500-4T0007G/0011PB								
GT500-4T0011G/0015PB								
GT500-4T0015G/0022PB								
GT500-4T0022G/0030PB								
GT500-4T0030G/0040PB								
GT500-4T0040G/0055PB	SIZE B	4.0~5.5kW	119	194	205	130	170	Ø5
GT500-4T0055G/0075PB								
GT500-4T0075G/0110PB	SIZE C	7.5~11kW	144	244	254	155	181.5	Ø5.5
GT500-4T0110G/0150PB								
GT500-4T0150G/0185PB	SIZE D	15kW	182	275	285	192	181.5	Ø5.5
GT500-4T0185G/0220PB	SIZE E	18~22kW	198	338	350	210	210	Ø5.5
GT500-4T0220G/0300PB								
GT500-4T0300G/0370P	SIZE F	30~37kW	240	395	410	260	248	Ø7
GT500-4T0300G/0370PB								
GT500-4T0370G/0450P								
GT500-4T0370G/0450PB								
GT500-4T0450G/0550P	SIZE G	45~55kW	240	520	540	300	277	Φ9
GT500-4T0450G/0550PB								
GT500-4T0550G/0650P								
GT500-4T0550G/0650PB								
GT500-4T0650G/0750P	SIZE H	65~110kW	270	560	580	340	314.5	Φ10
GT500-4T0650G/0750PB								
GT500-4T0750G/0900P								
GT500-4T0750G/0900PB								
T500-4T0900G/1100P								
GT500-4T0900G/1100PB								
GT500-4T1100G/1320P								
GT500-4T1100G/1320PB								
GT500-4T1320G/1600P	SIZE I	132~160kW	300	890	915	400	323.5	Φ10
GT500-4T1600G/1850P								

GT500 General Purpose Frequency Inverter

Appearance and installation dimensions

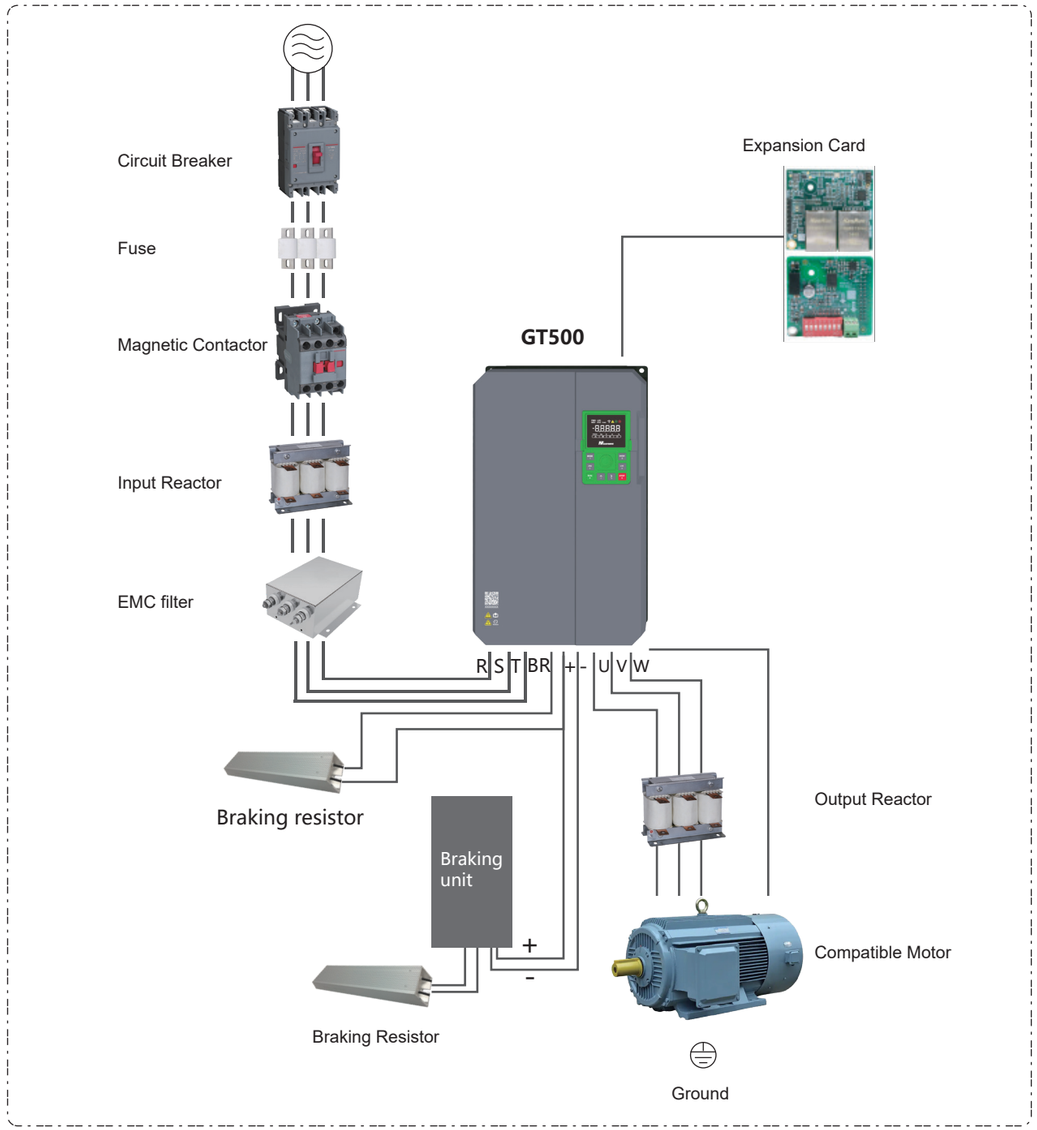


SIZE J~SIZE L Installation dimension diagram

Model	Structure	Power（kW）	Mounting holes（mm）				Overall dimensions（mm）					Ø(mm)
			A1	A2	B1	B2	H	H1	W	W1	D	d×4
GT500-4T1850G/2000PL	SIZE J	185~220kW	246.5	180	1016	110	1145	1094	320	380.5	505	Ø13
GT500-4T2000G/2200PL												
GT500-4T2200G/2500PL												
GT500-4T2500G/2800PL	SIZE K	250~315kW	225	185	1175	98	1292	1241.5	340	400	550	Ø13
GT500-4T2800G/3150PL												
GT500-4T3150G/3550PL												
GT500-4T3550G/3750PL	SIZE L	355~450kW	240	200	1276.5	121.5	1417	1364.5	340	403	550	Ø15.5
GT500-4T3750G/4000PL												
GT500-4T4000G/4500PL												
GT500-4T4500G/5000PL												

GT500 General Purpose Frequency Inverter

System connection diagram



GT500 General Purpose Frequency Inverter

Technical Specifications

Control Performance

Types of driveable motors		Asynchronous induction motor（IM), Permanent magnet synchronous motor （PMSM）
Control Mode		Open-Loop Vector Control（SVC), V/F Control
Asyncronos motor VF	Function	Overvoltage & overcurrent suppression, ride-through, oscillation suppression, torque boost, slip compensation, selectable VF curves, DC braking, fast deceleration, droop control, self-learning, speed tracking.
Asyncronos motor SVC	Function	Master-slave control, overvoltage suppression, DC braking, torque control, ride-through, self-learning, speed tracking.
	Speed control precision	1:250 （SVC）
	Starting Torque	0.25Hz/150%（SVC）
	Torque control precision	±3% for speeds above 5 Hz
	Speed regulation accuracy	10% of rated slip
Asnchronous motor SVC	Function	Master/Slave control, overvoltage suppression, DC braking, torque control, ride-through, parameter auto-learning, speed tracking etc.
	Speed control range	1:100 （SVC）
	Starting Torque	0.5Hz/150%（SVC）
	Torque control precision	±3% for speeds above 5 Hz
	Speed regulation accuracy	0.05%

Basic Functions

Command Channel		motor start/stop control via DI/DO, virtual DI/DO, or expansion cards; allows 4 sets of motor parameters and programmable start/stop commands.
Reference Channel	Input Frequency Resolution	Digital setting: 0.01 Hz
		Simulation setting: The maximum frequency ×0.1%
	Speed/Torque Reference	multi-set acceleration/deceleration curves, S-curve, external PID, AI (0-10V / 0-20mA), pulse & multi-segment inputs, and programmable speed/torque commands.
Communication Protoc		7 communication protocols：Modbus（Modbus-RTU、Modbus-TCP）、PROFIBUS-DP、CANopen、PROFINET、EtherCAT
Output Limit		torque, power, and current limits, maximum torque limit, speed limit, and frequency hopping
Process Control	PID	configurable sleep mode, configurable setpoint and feedback sources, 2-stage PID switching, feedback loss detection, configurable output limits, and flexible initialization.
Protection		Inverter and motor protection, including overvoltage, overcurrent, overload, motor overheating (PT100, PT1000, KTY84-130), load-loss protection, automatic fault reset, and auto-restart.

Customized Functions

Free programming	user programming with logic (AND, OR, NOT, XOR), arithmetic operations, logic delay on/off, multi-point curves, and constant values.
Self-diagnosis	Inverter and motor detection, supporting IGBT shoot-through, ground short circuit, phase loss, and phase-to-phase short circuit self-check.

GT500 General Purpose Frequency Inverter

Technical Specifications

Operation

Operation command	Panel, terminals, and serial communication command (multi-switchable).
Frequency command	14 frequency commands: digital, analog current (V/I), pulse, and serial communication command (multi-switchable).
Auxiliary frequency command	14 auxiliary frequency commands enables flexible fine-tuning and frequency synthesis.
Input Terminal	Standard: 4 DI terminals, 1 HDI terminal; 2 AI terminals. AI1 supports 0-10 V input only, AI2 supports 0-10 V voltage input or 0-20 mA current input.
Output Terminal	Standard: 1 AO terminal (0-20 mA current output or 0-10 V voltage output), 1 relay output terminal.

Display & Keypad

LED keypad display	Parameter display and setting; inverter status indication (forward/reverse/stop, keypad/terminal/communication control, speed/torque control, etc.)
Keypad lock and function setting	Partial keypad lock and assignable key functions to prevent misoperation.

Enviroment

Usage environment	Indoor, no suffer from sun, dust, corrosive gas, flammable gas, oil, fog, steam, dripping water, or salt etc.
Altitude	No derating below 1000m; above, reduce 1% per 100m. Max altitude 3000m (SIZE A: 2000m). Above max, contact manufacturer。
Ambient temperature	-10℃ ~+50℃, between 40–50°C, derating is required. For every 1°C increase, reduce the capacity by 1.5%.
Humidity	<95%RH，No condensation
Vibration	<5.9m/s² (0.6g)
Storage temperature	- 40℃~ + 70℃

GT50 Compact Frequency inverter

Product Introduction

The GT50 inverter is a compact inverter designed for controlling and regulating three-phase AC asynchronous motors as well as three-phase AC permanent magnet synchronous motors. It features excellent performance, reliable functions, easy operation, and other advantages. It is commonly used in the drives of industries such as textiles, papermaking, wire drawing, machine tools, packaging, food, fans, water pumps, and various production equipment.

Product features

Intelligent Full-Drive

* Three-phase AC asynchronous motor
* Three-phase AC permanent magnet synchronous motor

Easy Operation

* The compact size
* Multiple installation methods, making installation more convenient
* The main circuit connection terminals are designed with a plug-in type.
* No-screw installation makes wiring, operation and maintenance much more convenient.

Rich Configuration

* Equipped with advanced synchronous motor control algorithms
* It is simpler and more stable when applying to control high-speed motors

Safe and Reliable

* High protection anti-corrosion paint for PCBA
* Overload protection, slip-start function, stable operation with high safety and reliability

Excellent performance

* Improved driving performance
* Make the driving and control simpler

Technical Specifications

Basic functions

Output	Output voltage	Three phase 0~input voltage
	Maximum output frequency	599Hz (Adjustable via parameters)
	Carrier frequency	0.5kHz~16.0kHz (Auto-adjust carrier frequency by load characteristics)
	Overload capacity	Overload 150% rated current for 60 seconds
Input	Rated voltage and rated frequency	AC：Three phase 380~480V，50/60Hz
	Voltage allowable fluctuation range	-15%~+10%，Actual allowable range：AC 323V~528V
	Frequency allowable fluctuation range	±5%，Actual allowable range：47.5Hz~63Hz
Overvoltage category	OVCIII	
Pollution level	PD2	
Protection level	IP20（open type，IP Rating is applicable to IEC-compliant products）	

Basic functions

Command Channel		Control the start and stop of the motor, including DI, virtual DI, communication input, support for switching of 4 different motor parameters and control parameters, and support for freely programming to set start and stop commands.
Given channel	Input frequency Resolution	Digital settings：0.01Hz
		Simulation Setup：Highest frequency×0.1%
	Speed/Torque Setpoint	Acceleration/deceleration curves, dynamic switching between multiple accel/decel time groups, S-curve acceleration/deceleration, external PID reference, 1-channel analog input (AI, supporting 0–10V / 0–20mA), communication-based reference, speed and torque control, pulse input (HDI1), multi-step reference settings, and support for freely programmable speed/torque reference.
Communication method		Support communication methods：Modbus（Modbus-RTU）
Output Limitation		Support torque limit, power limit, current limit, extreme torque limit, speed limit, frequency hopping
Protection		Frequency converter motor protection, including overvoltage, overcurrent, overload, motor
		overheating, undervoltage protection, fault automatic reset, automatic restart, etc.

Control performance

Drive motor type		Asynchronous induction motor（IM）、Permanent magnet synchronous motor（PMSM）
Control method		Open-loop vector control（SVC），V/F Control
Asyncronos motor VF	Function	Overvoltage suppression, overcurrent suppression, transient stop without interruption, oscillation suppression, torque enhancement, slip compensation, selection of different VF curves, VF separation, DC braking, random PWM, rapid deceleration in overexcitation, droop control, parameter self-learning, speed tracking, etc.
Asyncronos motor SVC	Function	Master-slave control, overvoltage suppression, DC braking, torque control, momentary stop without complete shutdown, parameter self-learning, speed tracking, etc.
	Speed control precision	1:250 （SVC）
	Starting Torque	0.25Hz/150%（SVC）
	Steady speed accuracy	0.05%
Asnchronous motor SVC	Function	Master-slave control, overvoltage suppression, DC braking, torque control, momentary stop without complete shutdown, parameter self-learning, speed tracking, etc.
	Speed control precision	1:100 （SVC）
	Starting Torque	0.5Hz/150%（SVC）
	Steady speed accuracy	0.05%

Technical Specifications

Operation

Execute instruction	Operation panel settings, control terminal settings, communication settings (can be switched in multiple ways).
Frequency instruction	14 types of frequency commands: digital input, analog voltage input, analog current input, pulse input, serial port
	input (These can be switched in multiple ways)
Auxiliary frequency instruction	Supports 14 auxiliary frequency sources, enabling flexible fine-tuning and frequency combination for more precise speed control.
Input terminal	Standard：
	Three DI terminals and one HDI terminal
	1 AI terminal, AI1 supports input in 0V~10V voltage mode and 0~20mA current mode.
Output terminal	Standard：
	1 AO terminal, only supporting 0~10V voltage output
	One relay output terminal

Personalization function

Free programming	It enables free programming. It supports bit conversion, odd-even byte conversion, logical operations (AND, OR, NOT, XOR, AND/OR), arithmetic operations (fixed-point and floating-point addition, subtraction, multiplication, division, absolute value, numerical comparison), selector switches, free filtering, logical delay on/off, multi-point curves, and constant values.
Self-check	Frequency converter and motor detection. Supports IGBT direct connection, ground short circuit, phase loss self-check, and inter-phase short circuit self-check.
Powerful back-end software	The background software supports the upload and download operations of the frequency converter parameters as well as the function of the oscilloscope. Through the background software, remote debugging and fault diagnosis can be supported. The oscilloscope enables the monitoring of the internal status of the frequency converter.

Display and Keyboard

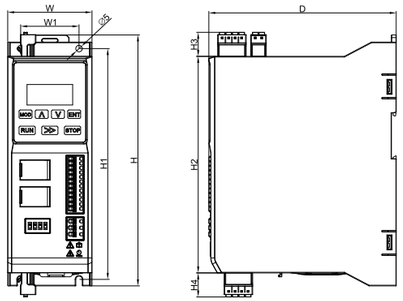
LED operation panel display	Display and modify parameters, display various status of the frequency converter (forward rotation/reverse rotation/shutdown, panel/terminal/communication control, speed/torque control, etc.)
Key lock and function selection	Implement partial locking of the buttons and define the function scope of each button to prevent accidental operation.

Environment

Usage location	Inside, not exposed to direct sunlight, free from dust, corrosive gases, flammable gases, oil mist, water vapor, dripping water or salt particles, etc.
Altitude	For usage below 1000m, no reduction factor is required. For every 100m increase above 1000m, the reduction factor increases by 1%. The maximum usage altitude is 2000m. If the altitude exceeds 2000m, please contact the manufacturer.
Environmental temperature	-10℃ ~ +50℃. When the ambient temperature is between 40 and 50℃, the equipment must be used at a reduced capacity. For every 1℃ increase in ambient temperature, the capacity reduction will be 1.5%.
Humidity	<95% RH, no condensation
Vibration	<5.9m/s²（0.6g）
Storage temperature	- 20℃~＋65℃

GT50 Compact Frequency inverter

Appearance and installation dimensions



SIZE A~SIZE B Installation dimension diagram

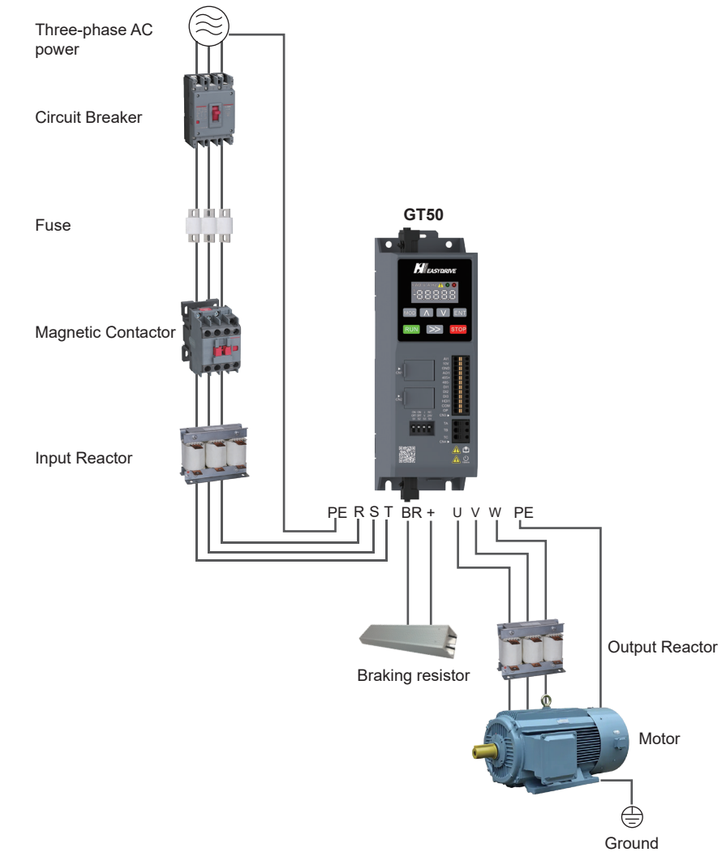
Model	Structure	Power（kW）	Installation holes（mm）		Overall dimensions（mm）			Φ(mm)
			W1	H1	H	W	D	
GT50-4T0004GB GT50-4T0007GB GT50-4T0011GB GT50-4T0015GB GT50-4T0022GB	SIZE A	0.4-2.2kW	45	178	193.5	65	144.5	5.0
GT50-4T0030GB GT50-4T0040GB GT50-4T0055GB	SIZE B	3-5.5kW	45	196	211.5	65	157	5.0

Technical Specifications

Item	4T0004GB	4T0007GB	4T0011GB	4T0015GB	4T0022GB	4T0030GB	4T0040GB	4T0055GB
Power(kW) （G）	0.4	0.75	1.1	1.5	2.2	3.0	4.0	5.5
Rated output current(A)	1.6	3.0	3.5	4.5	5.5	7.2	9.5	13
Rated input current(A)	2.2	4.4	5.0	6.0	7.5	9.5	11	15.5
Power capacity(kVA)	2.0	2.8	4.1	5	6.7	9.5	12	17.5

GT50 Compact Frequency inverter

System connection diagram



GT200 High performance system type frequency inverter

Power Range

- GT200 0.75KW~160KW/AC220V~240V
- GT200 0.75KW~850KW/AC380V~440V

Product Feature

- **Excellent performance**
  Speed Stable Precision:+/-0.5% rated synchronous speed(SVC)
  Speed Adjustment Range: 1:100(SVC)
  Torque Response:<20ms (SVC)
  Heavy Load Overload Capacity: 110% rated stable operation,150% rated load 1min,180% rated load 3s
  Low frequency large torque, under the open-loop vector model,can realise 0.5Hz loading (150% rated load) stable operation.
  The drive can keep enough torque output capacity and no trip to run when there is instant mutation load.
  Auto Current Limiting: Motor current can be controlled at a certain level does not affect the output torque.
  Can accurately identify the motor parameters, realise high performance vector control.
  Can realise static self-learning,dynamic self-learning, and adapt to different working condition requirement.
  Can realise motor parameters accurate setting under the condition of long cable.

- **Rich and Comprehensive Application Function**
  Flexible Multi-stage V/F Curve;Multi-stage speed Control;Sample PLC application;Standard RS485 Communication
  The Selection of Frequency Source And Command Source;Frequency Binding and Switching;Frequency master and auxiliary;
  Pulse frequency input and output
  Built-in PI control;Preset for closed-loop;Zero frequency difference ;
  Swing frequency operation;Fixed length control;Speed tracking;Droop control;Instant stop non-stop;Automatic energy-saving operation;-
  Multiple protection and overload warning
  Built-in braking unit below 22kw;Strong Expandability

- **Excellent adaptability**
  Working voltage range: Rated voltage 380-440V; through the automatic voltage regulation technology (AVR), the long-term low
  Analog output terminal:2-10V/ 0-10V/4-20mA/0-20mA optional, output physical quantity optional, convenient for connecting external instrument.
  Operating time automatically accumulated: set the time to issue instructions to facilitate the maintenance of equipment maintenance.
  User password settings: the user's parameters can be kept secret to prevent unauthorized personnel modify parameters.
  Built in braking unit: Below 22kw no external braking unit needed, reduce the cost of the customer system.
  Strong Expandability : Reserved 2pcs Expansion card position, can connect to I/O Expansion card,communication expansion card and other process expansion card(Such as air compressor adapter card, water-supply card, plastic injection card and etc), or customized cards according to user's demand.
  Dustproof design: Comprehensive anti-corrosion paint spraying protection, independent air duct design, dust accessories optional to increase overall defensive capabilities, to meet the long-term reliable operation of high humidity or excessive dust occasions.
  Easily replaceable fan: Don't need to disassemble to realize quick replacement of fan, adapt to the special environment of wind machine, adapt to special occasions which need regular cleaning air duct debris.

GT200 High performance system type frequency inverter

Product technicalspecifications

Basic Functions

Input	Rated voltage/ Frequency	Single-phase 200V-240V，three-phase,380V-440Vac;50Hz/60Hz
	Allowed voltage range	Voltage:220V(-15%)～240V（+10%）380v(-15%)～440v（+10%）;Voltage unbalance rate:<3%;Frequency:±5%
Output	Rated voltage(A)	0～input voltage
	Frequency	0Hz～550Hz
	Overload capacity	150% rated current for 60s

Control performance

Control mode	Sensorless vector control（SVC),V/F
Range of speed regulation	1:100
starting torque	150% rated torque when 0.5Hz
Speed control accuracy	≤±5% rated synchronous speed
Frequency accuracy	Digital set :max. frequency×±0.01%　Analog set：max.frequency×±0.2%
Frequency resolution	Digital set :1Hz ;Analog set：max. frequency×0.1%
Torque rise	Auto torque ascension,manual torque ascension 0.1%～30.0%
V/F curve	Four ways:1 kind of user set V/F curve way、3 kinds of drop torque characteristic curve way(2.0 times power，1.7 times power，1.2 times power
Acceleration/deceleration curve	Three ways:line acceleration/deceleration、Scurve acceleration/deceleration、Auto acceleration/deceleration four acceleration/deceleration time，with the unit of time（minute/second） optional ,max.time set 60 hours
DC braking	DC braking start frequency:0.00Hz～60.00Hz;braking time:0.0～30.0s;braking current:G type 0.0～100.0%
Jogging	Jog frequency range:0.00Hz～50.0Hz
Multi-speed operating	It can be realized by interior-PLC or control terminal
Built-in PID	Be convenient to make closed-loop control system
Auto energy-saving running	According to load condition, V/F curve can be optimized automatically to get the aim of energy-saving running.
Auto voltage adjustment	when rhe voltage of network changes,the output voltage can be automatically kept constant
Auto current limiting	During the operation, the current is automatically limited to prevent frequent flow to falut trip
Auto carrier adjustment	According to the load characteristics ,automatically adjust the carrier frequency

Customized function

Textile swing frequency	Textile swing frequency control,it can realize the function of fixed and variable swing frequency
Fixed length control	Length reached stop function
Sagging function	Applicable to multiple inverters drive one load
Instant stop/non-stop control	when power-supply off instantly,it can realize keep running through control bus voltage
Binding function	Running command channel and frequency given channal can be binded and change at same time

GT200 High performance system type frequency inverter

Technical Specifications

Operation

Running command channel	Operation panel,control terminal and communication port , can be switched through many ways
Frequency given channel	Digial given, keypad potentiometer,analog voltage given,analog current given, pulse given,communica-
	tion port given,can be switched through many ways
Auxiliary frequency given channel	Realize flexible auxiliary frequency fine-turing and frequency combination operation
Pulse output terminal	0～50KHz pulse square wave signal output,can realize output setting frequency and output frequency ect.
Analog output terminal	2 ways analog output,0～10v、0～20mA to get output of physical quantity such as setting frequency and output frequency
LED display	can display 20 kinds of parameters such as setting frequency,output frequency,output voltage,output current and so on
Key Locked and function choos	Define the function scope of part of the keys,in case of mistake operation
protection function	Phase-loss protection(optional),over current protection,over voltage protection,under voltage protec- tion,over heat protection,over load protection
Service location	Indoor,not suffer from sun,dust,corrosive gas,oil fog,steam and so on

Environment

Altitude	Less than 1000m (derating at higher than 1000m)
Environment temperature	－10°C～＋40°C
Humidity	Less than 90%RH，no condensation
Vibration	Less than 5.9m/s2（0.6M）
Storage temperature	－20°C～＋60°C
Protection class	IP20 (In service state or keyboard state.)
Cooling way	Air-blast cooling
Installation Way	GT100：Wall-hanging、Lateral installation、Guide rail installation,GT200：Wall-hanging,Cabinet、Through the wall installation

GT200 High performance system type frequency inverter

Overall dimension

Model	Power(kW)	Dimensions(mm)								(Φ)
		W	W1	H	H1	D	D1	D2	D3	
GT200-2S0007G GT200-2S0015G GT200-2S0022G GT200-4T0007G GT200-4T0015G GT200-4T0022G GT200-4T0040G/4T0055P	0.7-4	120	109	215	204	158	133	85		5.5
GT200-4T0055G/4T0075P GT200-4T0075G/4T0110P	5.5-7.5	150	138	259	248	183	176	150		5.5
GT200-4T0110G/4T0150P GT200-4T0150G/4T0185P	11-15	205	188	322	305	219	210	168		6.5
GT200-4T0185G/4T0220P GT200-4T0220G/4T0300P	18.5-22	235	218	370	350	237	230	200		7
GT200-4T0300G/4T0370P GT200-4T0370G/4T0450P	30-37	305	200	490	470	270	235	207		10
GT200-4T0450G/4T0550P GT200-4T0550G/4T0750P GT200-4T0750G/4T0900P	45-75	320	197	560	543	302	275	237		10
GT200-4T0900G/4T1100P GT200-4T1100G/4T1320P GT200-4T1320G/4T1600P	90-132	355	240	678	659	307	257	257		11
GT200-4T1600G/4T1850P GT200-4T1850G/4T2000P	160-185	450	300	900	875	372	345	300		12
GT200-4T2000G/4T2200P GT200-4T2200G/4T2500P	200-220 (Cabinet)	480	-	1070	-	412	400	313		(Cabinet)
GT200-4T2500G/4T2800P GT200-4T2800G/4T3150P GT200-4T3150G/4T3550P	250-315 (Cabinet)	525	-	1300	-	438	425	335		(Cabinet)
GT200-4T3550G/4T4000P GT200-4T4000G/4T4500P GT200-4T4500G/4T5000P	355-450 (Cabinet)	635	-	1480	-	467	460	356		(Cabinet)
GT200-4T2000G/4T2200P GT200-4T2200G/4T2500P	200-220 (Wall-mounting)	480	320	1158	1127	421	414	329		12
GT200-4T2500G/4T2800P GT200-4T2800G/4T3150P GT200-4T3150G/4T3550P	250-315 (Wall-mounting)	525	400	1388	1357	447	440	350		12
GT200-4T3550G/4T4000P GT200-4T4000G/4T4500P GT200-4T4500G/4T5000P	355-450 (Wall-mounting)	635	450	1577	1538	482	475	371		16
GT200-4T5000G/4T5600P GT200-4T5600G/4T6300P GT200-4T6300G/4T7100P	500-630	950	900	1812	1845	490.5	388.5	276	154	(Cabinet)
GT200-4T7100G/4T8500P GT200-4T8500G	710-850	1200	1150	1900	1939	580.5	510	402.5	307	(Cabinet)

GT20 high performance universal frequency inverter

Power Range

- GT20 380V：0.75KW～15KW
- GT20 220V：0.75KW～2.2KW

Product Feature

- Performance feature

  1.Excellent current control capability,Ensure that the inverter doesn't trip during the process of fast accelera-tion.

  2.The overexcitation function is automatically added in the deceleration process,deceleration time is shorter.

  3.Strong over modulation capability,the output voltage is higher at the same input voltage.

  4.Strong overload suppression capability,Ensure that the inverter does not stop due to overload fault at the maximum outpu.ting and dyeing, packaging, printing, pharmaceutical, food, reflow and production line etc.

- Function Features

  1.Built-in industry-specific macro parameters， Support one-click setting of industry parameters

  2.Support external keyboard (LED keyboard)

  3.Side by side installation, guide rail installation

  4.Support keyboard parameter copy

- Application

  GT20 is a small size smart inverter product, It can be widely used in woodworking carving, glass edge grinding, food filling, medicine centrifuge, automatic production line, electronic equipment, logistics equip-ment and small automated mechanical equipment etc.

GT20 high performance universal frequency inverter

Technical Specifications

Basic Functions

Input	Rated voltage/ Frequency	Three-phase,380V-440Vac;50Hz/60Hz
	Allowed voltage range	Single /three phase 220V(-15%)～240v（+10%）Three phase 380v(-15%)～440v（+10%）; Voltage unbalance rate: < 3%;Frequency:±5%
Output	Rated voltage（V）	0～Input voltage
	Frequency	0Hz～650Hz
	Overload capacity	150% rated current for 60s

Control performance

Control mode	V/F mode
Range of speed regulation	1：100
starting torque	150% rated torque when 0.5Hz
Speed control accuracy	≤±0.5% rated synchronous speed
Frequency accuracy	Digital set :max. frequency×±0.01% ; Analog set：max.frequency×±0.2%
Frequency resolution	Digital set :0.01Hz ;Analog set：max. frequency×0.1%
Torque rise	Auto torque ascension,manual torque ascension 0.1%～30.0%
V/F curve	Four ways:1 kind of user set V/F curve way、3 kinds of drop torque characteristic curve way(2.0 times power，1.7 times power，1.2 times power
Acceleration/deceleration curve	One ways:line acceleration/deceleration four acceleration/deceleration time，with the unit of time（minute/second） optional ,max.time set 10 hours
DC braking	DC braking start frequency:0.00Hz～60.00Hz;braking time:0.0～60.0s; braking current: 0.0～150.0%
Jogging	Jog frequency range:0.10Hz～50.0Hz
Multi-speed operating	It can be realized by interior-PLC or control terminal
Built-in PID	Be convenient to make closed-loop control system
Auto energy-saving running	According to load condition, V/F curve can be optimized automatically to get the aim of energy-saving running.
Auto voltage adjustment(AVR)	when the voltage of network changes,the output voltage can be automatically kept constant
Auto current limiting	During the operation, the current is automatically limited to prevent frequent flow to falut trip

Operation

Running command channel	Operation panel,control terminal and communication port , can be switched through many ways
Frequency given channel	Digial given, analog voltage given,analog current given, pulse given, communication port given,can be switched through many ways
Auxiliary frequency given channel	Realize flexible auxiliary frequency fine-turing and frequency combination operation
Pulse output terminal	0～10kHz pulse square wave signal output,can realize output setting frequency and output frequency ect.
Analog output terminal	2 ways analog output,0～10v、0～20mA to get output of physical quantity such as setting frequency and output frequency
LED display	It can display setting frequency,output frequency,output voltage,output current and so on

GT20 high performance universal frequency inverter

Technical Specifications

Environment

protection function	Phase-loss protection(optional),over current protection,over voltage protection, under voltage protection,over heat protection,over load etc.
Service location	Indoor,not suffer from sun,dust,corrosive gas,oil fog,steam and so on
Altitude	Less than 1000m (derating at higher than 1000m)
Environment temperature	－10°C～＋40°C (Derating use in 40°C～50°C)
Humidity	Less than 90%RH，no condensation
Vibration	Less than 5.9m/s2(0.6g)
Storage temperature	－40°C～＋60°C
Protection class	IP20
Cooling way	Froced air cooling
Installation Way	Wall-hanging, DIN-rail installation

Overall dimension

Specification	W	W1	H	H1	D	D1	Mounting hole diameter (Φ)
GT20-4T0007G GT20-4T0015G GT20-4T0022G GT20-2S0004G GT20-2S0007G GT20-2S0015G	80	68	150	138	136.5	133	5
GT20-4T0040G GT20-4T0055G GT20-2S0022G GT20-2T0022G	106	94	200	188	148.5	144.6	5.5
GT20-4T0075G	108	96	217	205	167	163	5.5
GT20-4T0110G GT20-4T0150G	145	133	277	267	178	171	5.5

GT35-PV Special Frequency Inverter For Solar Pump

Product Features

Product Features

- Advanced MPPT algorithms
  MPPT software up to 99% efficicency
- Protection function
  Over/low voltage protection
  Over load protection
  Over-current protection
  Over tempereture protection
  Pump dry run protection (low load protection)
- Easy operation
  Easy to install, no need to set parameters, ready to use, and has a parameter one-key recovery function.
- Wide Application
  In addition to the DC power input, AC power input is also acceptable.

GT35-PV Special Frequency Inverter For Solar Pump

Technical specifications

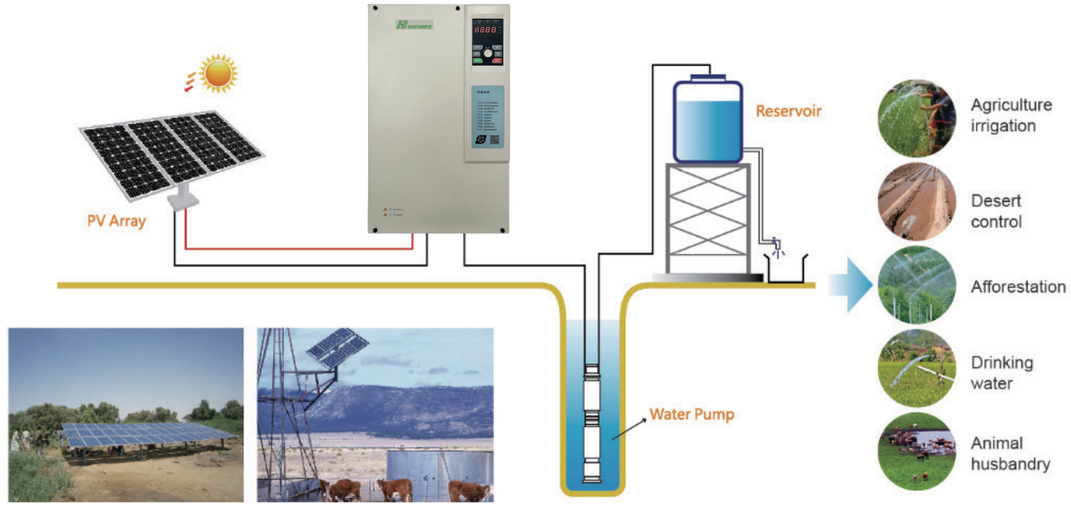
Item		Description
Input	Rated voltage/ Frequency	Three-phase:380V-480Vac；50Hz/60Hz Single-phase: 220Vac;50Hz/60Hz
	Allowed voltage range	Three-phase Voltage: AC :380V(-15%)~480V(+10%) DC :250V~900V
		Single-phase Voltage: AC:220V±15% DC:150V~440V
Output	Rated voltage（V）	0~Input voltage
	Frequency	0Hz~320Hz
	Overload capacity	P type:120% rated current for 60s
Main control function	Control mode	MPPT mode, V/F mode
	Range of speed regulation	1:100
	starting torque	150% rated torque when 0.5Hz
	Speed control accuracy	≤±0.5% rated synchronous speed
	Frequency accuracy	Digital set : max. frequency×±0.01%
		Analog set : max.frequency×±0.2%
	Frequency resolution	Digital set : 0.01Hz ;Analog set:max. frequency×0.1%
	Torque rise	Auto torque ascension,manuall torque ascension 0.1%～30.0%
	V/F curve	Three ways : Linear V/F curve, user set V/F curve, super V/F mode
	Acceleration/de-celeration curve	Two ways : line acceleration/deceleration S curve acceleration/deceleration;
		four acceleration/deceleration time，with the unit of time（minute/second）
		optional ,max.time set 60 hours
	DC braking	DC braking start frequency:0.00Hz～60.00Hz;braking time:0.0～30.0s;braking current: 0.0～100.0%
	Jogging	Jog frequency range:0.10Hz～50.0Hz
	Multi-speed operating	It can be realized by interior-PLC or control terminal
	Built-in PID	Be convenient to make closed-loop control system
	Auto energy-saving running	According to load condition, V/F curve can be optimized automatically to get the aim of energy-saving running.
	Auto voltage adjustment	when rhe voltage of network changes,the output voltage can be automatically kept constant
	Auto current limiting	During the operation, the current is automatically limited to prevent frequent flow to falut trip
	Instant stop/non-stop control	when power-supply off instantly,it can realize keep running through control bus voltage
	Binding function	Running command channel and frequency given channal can be binded and change at same time
Special function for water supply	Multipump control	Support cyclic variable frequency pump water supply, fixed variable frequency pump water supply, sleep control (Note: additional relay card is required)
	Pump cleaning function	Through the periodic positive and negative motor operation, the pump self-cleaning function is realized, and the maintenance workload of manual cleaning pump is reduced
	Deicing function	Through the direct current power mode, improve the motor surface temperature when the work is interrupted, avoid condensate water caused by motor failure
	Fire mode function	Fire mode of tunnel or building water supply in case of emergency, continuous output guaran-tees longer operation
Running function	Running command channel	Operation panel,control terminal and communication port , can be switched through many ways
	Frequency given channel	Digial given, analog voltage given,analog current given, pulse given,communication port given,can be switched through many ways
	Auxiliary frequency given channel	Realize flexible auxiliary frequency fine-turing and frequency combination operation
	Pulse output terminal	0～50KHz pulse square wave signal output,can realize output setting frequency and output frequency ect.
	Analog output terminal	2 ways analog output,0～10v、0～20mA to get output of physical quantity such as setting frequency and output frequency

GT35-PV Special Frequency Inverter For Solar Pump

Technical specifications

Item		Description
Operating panel		TIt can display 20 kinds of parameters such as setting frequency,output frequency, output voltage,output current and so on
protection function		Phase-loss protection(optional),over current protection,over voltage protection,under voltage protection,over heat protection,over load
Environment	Service location	Indoor,not suffer from sun,dust,corrosive gas,oil fog,steam and so on
	Altitude	Less than 1000m (derating at higher than 1000m)
	Environment temperature	- 10℃～+50℃ (Derating use in 40℃～50℃)
	Humidity	Less than 95%RH，no condensation
	Vibration	Less than 5.9m/s²（0.6g）
	Storage temperature	- 20℃～+60℃
	Pollution degree	PD2
Structure	Protection class	IP20
	Cooling way	Froced air cooling
Installation Way		Wall-hanging,Cabinet, Trough-wall installation
efficiency		≥95%

Water pumping system



GT35-PV Special Frequency Inverter For Solar Pump

Overall dimension

Model	Overall dimensions (mm)					Mounting hole (mm)		Mounting hole diameter Φ (mm)	Reference picture
	W	H	D	D1	D2	W1	H1		
GT35-4T0007P-PV GT35-4T0015P-PV GT35-4T0022P-PV GT35-2S0004P-PV	75	199	153	121	96	50	189	5.0	(a1)
GT35-4T0040P-PV GT35-4T0055P-PV GT35-4T0075P-PV GT35-2SS0004P-PV GT35-2SS0007P-PV GT35-2S0007P-PV GT35-2S0015P-PV	120	215	163	136	90	109	204	5.5	(a)
GT35-4T0110P-PV GT35-2SS0015P-PV GT35-2SS0022P-PV GT35-2SS0040P-PV GT35-2S0022P-PV GT35-2S0040P-PV GT35-2T0022P-PV GT35-2T0040P-PV	150	259	181	149	104	138	247	5.5	(a)
GT35-4T0150P-PV GT35-4T0185P-PV GT35-4T0220P-PV GT35-2SS0055P-PV GT35-2S0055P-PV GT35-2S0075P-PV GT35-2T0055P-PV GT35-2T0075P-PV	205	322	215	176	130	188	305	6.5	(a)
GT35-4T0300P-PV GT35-4T0370P-PV GT35-4T0450P-PV	235	370	235	200	146	218	350	7	(a)
GT35-4T0550P-PV GT35-4T0750P-PV GT35-4T0900P-PV GT35-4T1100P-PV	320	560	307	277	236	197	543	10	(b)
GT35-4T1320P-PV GT35-4T1600P-PV	355	678	319	293	261	240	659	11	(b)
GT35-4T1850P-PV GT35-4T2000P-PV	450	900	372	345	302	300	875	12	(b)
GT35-4T2200P-PV GT35-4T2500P-PV	480	1070	406	399	314	-	-	-	(c)
GT35-4T2800P-PV GT35-4T3150P-PV GT35-4T3550P-PV	525	1300	432	425	335	-	-	-	(c)
GT35-4T2200P-PV (Wall hanging) GT35-4T2500P-PV (Wall hanging)	480	1158	421	414	329	320	1127	12	(d)
GT35-4T2800P-PV (Wall hanging) GT35-4T3150P-PV (Wall hanging) GT35-4T3550P-PV (Wall hanging)	525	1387	447	440	350	400	1356	12	(d)

GT35-4T0450P-PV~GT35-4T2000P-PV Optional base。

GT35-PV Special Frequency Inverter For Solar Pump

Outline size