

GD20&GD200A Series Vector General Purpose Inverter





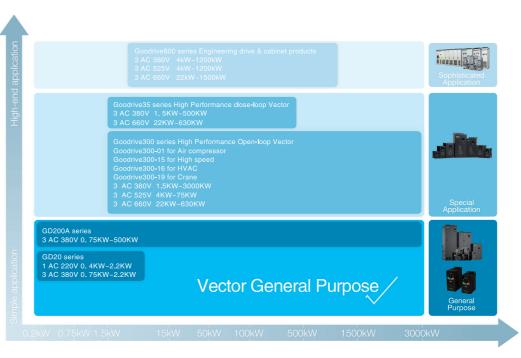




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Satisfy your expectations

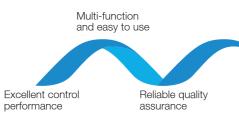
Low Voltage Goodrive Series Product Family Tree Diagram



GD20&GD200A Series Vector General Purpose Inverter Product Instruction

GD20&GD200A series inverters are new generation product of the inverter, with rich .product type and wide range of power, can be widely use to fan and water pump ,Products based on the vector V/F control and Sensorless Vector Control technology .and realize the accurate parameter of motor Auto-turning, high precision speed control . To effectively improve the reliability of the product and the environment At the same time, with more rich function and more flexible application, the series .products can strengthen the customer's easy to use





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Satisfy your expectations



GD20 Series Mini Vector Inverters Product Introduction

GD20 series mini type general vector inverter, positioned as using the high performance mini product of small power market; product using the leading international vector control algorithm, with excellent product features, compatible with wall and rail installation, and the product volume is smaller. Product widely used in Textile machinery, Food machinery, Plastic machinery, Printing and packaging, Environmental protection equipment, Ceramic equipment, Woodworking equipment, Conveying equipment and so on industries.

Product Advantage

- Mini structure
- Easy maintenance
- Various installation ways
- Excellent performance
- Multi-function and easy to use



Product Features

1 Mini design, smaller installation space



3 Available multi-inverter in parallel installation, more effective space-saving



External keypad The standard keypad is membrane keypad. Support external LED keypad. The LED keypad support parameter copy,



2 Plug cooling fan, easy maintenance





2 Compatible with rail and wall installation, flexible installation manner



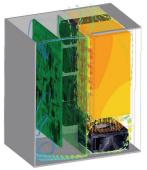
In parallel installation, need to remove the nembranes on the top of the inverters

Reliable QA





2 Advanced thermal technology makes exact thermal design



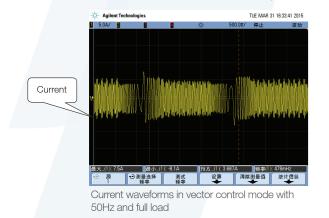


Agilent Technologies

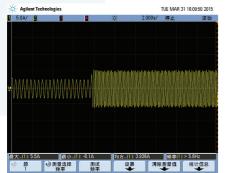
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Excellent Performance

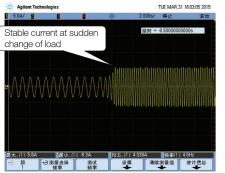
Excellent vector control performance



2 Excellent motor drive performance



Current waveforms when sudden loading in V/F control mode with 2Hz and full load



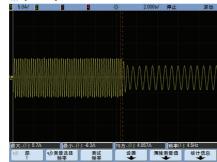
Current waveforms when sudden loading in vector control mode with 0.5Hz and full load

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<l Current waveforms when sudden unloading in V/F control mode with 2Hz and full load 🔆 Agilent Technologies TUE MAR 31 16:04:05 2015

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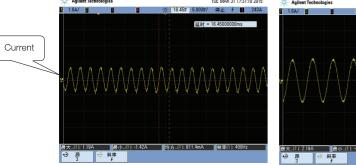
change of load

Stable current at sudden

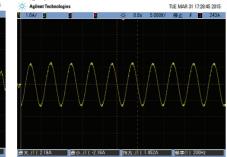


Current waveforms when sudden unloading in vector control mode with 0.5Hz and full load

3 Excellent high frequency running performance TUE MAR 31 17:31:10 2015 Agilent Technologies



Current waveforms when sudden loading in vector control mode with 0.5Hz and full load



Current waveforms when sudden unloading in vector

control mode with 0.5Hz and full load

Name	Function
485 communication interface	Connect with upper computer, read and modify parameters of the inverter, control running states of the inverter
PID	Carry out PID operation on feedback signals, control output frequency of the inverter and improve target accuracy and stability; apply to pressure, flow and temperature process control
Motor autotuning	Carry out rotation or static autotuning, improve control accuracy and response speed
Simple PLC	Can change the running frequency and direction automatically according to the running time set by simple PLC to meet process requirements
Multi-step speed control	Can meet the requirements of speed control in different periods of time via multi-step speed control
Multiple V/F curve settings	Meet the requirements of fans and water pumps in energy-saving operation and various variable frequency power supplies, adapt to different load applications
Virtual terminals	Can take external signals as local virtual I/O to save hardware configuration
Delay switching on and off	Provide more programming and control modes
Continuous running in instantaneous power off	Specially apply to the situations with high requirement of continuous operation, ensure the device does not stop in instantaneous power off
Various protection functions	Provide overall fault protection functions
Optional braking modes	Provide multiple braking modes, satisfy accurate and quick stop under different loads
Battery capacity display	Can display the accumulative power consumption on the inverter in no need of watt-hour meter



Standard built-in 485 communication interface

Support PID output polarity switching

Include rotation autotuning and static autotuning

Support multiple running modes

Max. available 16-step speed control

Linear, multi-dot, multi-power and V/F separation settings, realize flexible setting of V/F curves

Enable the corresponding virtual terminal functions in communication mode

Max. switching on-off delay is 50s

At transient voltage drop, the inverter can keep running by feedback energy without stop in valid time

Protection functions such as overcurrent, overvoltage, undervoltage, overheating, overload, can save fault information

DC braking, flux braking, short-circuit braking

Can check power consumption of the inverter



Main Applications

/ Technical Parameters







nvironmental protection equipmen



Woodworking equipment



Food machinery



Printing and packaging



Ceramic equipment



Conveying equipment

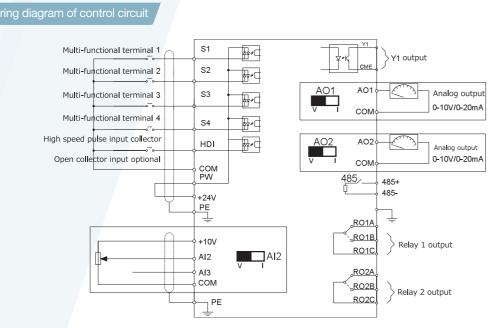
	Function
	Input voltage (V)
Power input	Input current (A)
	Input frequency (Hz)
	Output motor capacity (kW)
Power output	Output current (A)
	Output voltage (V)
	Control mode
	Adjustable-speed ratio
	Speed control accuracy
Technical control	Speed fluctuation Torque response
feature	Torque control accuracy
	Starting torque
	Overload capability
	Frequency setting method
Running control feature	Auto-adjustment of the voltage
	Fault protection
	Analog input
	Analog output
	Digital input
Peripheral interface	Digital output
	Relay output
	Mountable method
	Braking unit
	EMI filter
Others	Temperature of the running environment
	Altitude
	Protective degree
	Safety
	Cooling



Specification
1PH 220V (-15%)~240V(+10%) 3PH 380V (-15%)~440V(+10%)
Refer to the rated value
50Hz or 60Hz, allowed range: 47~63Hz
Refer to the rated value
Refer to the rated value
0-Input voltage, error<5%
Space Vector PWM (SVPWM), Sensorless Vector Control (SVC)
1:100
±0.2% (SVC)
± 0.3% (SVC)
<20ms (SVC)
10%
0. 5Hz/150% (SVC)
150% of rated current: 1 minute
180% of rated current: 10 seconds 200% of rated current: 1 second
Digital setting, analog setting, pulse frequency setting, multi-step speed running setting, simple PLC setting, PID setting, MODBUS
communication setting Keep a stable voltage automatically when the grid voltage
transients
Provide comprehensive fault protection functions: overcurrent, overvoltage, undervoltage, overheating, phase loss and overload, etc.
1 (AI2) 0~10V/0~20mA and 1 (AI3) -10~10V
2 (AO1, AO2) 0~10V/0~20mA
4 common inputs, the Max. frequency: 1kHz; 1 high speed input, the Max. frequency: 50kHz
1 Y terminal output; 2 programmable relay outputs
2 programmable relay outputs RO1A NO, RO1B NC, RO1C common terminal RO2A NO, RO2B NC, RO2C common terminal Contact capacity: 3A/AC250V
Wall and rail mountable
Embedded
Optional filter: meet the degree requirement of IEC61800-3 C2, Build –in IEC61800-3 C3 filter
-10~50°C, derate above 40°C
<1000m If the sea level is above 1000m, please derate 1% for every additional 100m.
IP20
Meet the requirement of CE
Air-cooling



Standard Wiring



/ Type Selection

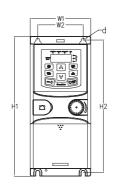
Туре	e designation key					
	GD20-2R2G-4-UL					
			1 (2 3 4		
	Key	No.	Detailed description	Detailed content		
	Abbreviation	1	Product abbreviation	GD20 is short for Goodrive20		
	Rated power	2	Power range+load type	2R2-2.2kW G: constant torque load		
	Voltage degree	3	Voltage degree	S2: AC 1PH 220V(-15%)~240V(+10%) 4: AC 3PH 380V(-15%)~440V(+10%)		
	Certification	4	Certification standards	Default: CE: Meet EU CE certification requirements UL: Meet American UL certification requirements		

Кеу	Rated output power(kW)	Rated input current(A)	Rated output current(A)
GD20-0R4G-S2	0.4	6.5	2.5
GD20-0R7G-S2	0.75	9.3	4.2
GD20-1R5G-S2	1.5	15.7	7.5
GD20-2R2G-S2	2.2	24	10
GD20-0R7G-4	0.75	3.4	2.5
GD20-1R5G-4	1.5	5.0	3.7
GD20-2R2G-4	2.2	5.8	5.5

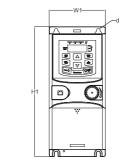
Product Weight And Outer Packing Dimension

Model	Power	Gross weight(kg)	Net weight(kg)	Packing material	Outer packing size (mm)
GD20 1-phase 220v Series	0.4-0.75KW	1.1kg	0.9kg	Canton box	215mmx125mmx180mm
GD20 1-phase 2200 Series	1.5-2.2KW	1.5kg	1.2kg	Canton box	242mmx130mmx120mm
GD20 3-phase 380v Series	0.75-2.2KW	1.3kg	1.0kg	Canton box	242mmx130mmx120mm

Installation Dimension

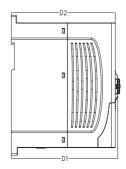


						Installa	tion dimension (unit: mm)
Model	W1	W2	H1	H2	D1	D2	Installation hole (d)
GD20-0R4G-S2	80.0	60.0	160.0	150.0	123.5	120.3	5
GD20-0R7G-S2	80.0	60.0	160.0	150.0	123.5	120.3	5
GD20-1R5G-S2	80.0	60.0	185.0	175.0	140.5	137.3	5
GD20-2R2G-S2	80.0	60.0	185.0	175.0	140.5	137.3	5
GD20-0R7G-4	80.0	60.0	185.0	175.0	140.5	137.3	5
GD20-1R5G-4	80.0	60.0	185.0	175.0	140.5	137.3	5
GD20-2R2G-4	80.0	60.0	185.0	175.0	140.5	137.3	5

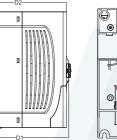


Model	W1	H1	H3	H4	D1	D2	Installation hole (d)
GD20-0R4G-S2	80.0	160.0	35.4	36.6	123.5	120.3	5
GD20-0R7G-S2	80.0	160.0	35.4	36.6	123.5	120.3	5
GD20-1R5G-S2	80.0	185.0	35.4	36.6	140.5	137.3	5
GD20-2R2G-S2	80.0	185.0	35.4	36.6	140.5	137.3	5
GD20-0R7G-4	80.0	185.0	35.4	36.6	140.5	137.3	5
GD20-1R5G-4	80.0	185.0	35.4	36.6	140.5	137.3	5
GD20-2R2G-4	80.0	185.0	35.4	36.6	140.5	137.3	5





Wall installation



Rail installation

Installation dimension (unit: mm)

Satisfy your expectations





GD200A Series General Purpose Inverters Product Introduction

GD200A series high performance general vector inverter, positioned as a new generation general purpose inverter; products using DSP control system and vector V/F control and Sensorless Vector Control technology, with excellent motor drive performance and various protecting functions, widely used in air compressor, plastic machine, petroleum industry, coal .industry, HVAC applications, fan pump and other standard transmission load



• High performance

- Multi-function with simple operation
- Reliable quality certificated



High Performance

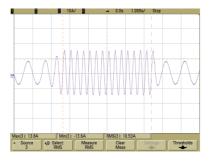
More Accurate Motor Autotuning

Accurate rotating and static motor autotuning Convenient debugging and easy operation

De-couple form the load Applied to the situation with high control accuracy

2 Advanced open loop vector control

The current, torque and rotating speed waveforms when sudden loading or unloading in asynchronous motor open loop vector control mode with 0.5Hz running frequency and full load.



Current

3 Perfect voltage and current control, reducing the fault protection times



Adjust the output frequency to avoid overcurrent of the inverter during acceleration

4 Multiple braking modes and instant stopping

Dynamic braking

• Configure braking units and resistors • Available on the situation of big inertia

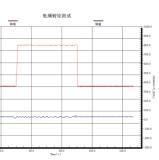
- load and frequent braking
- Big braking torque and quick braking

Flux braking

- No need to configure braking units and resistors • Available on the instant stopping situation with
- big inertia load and no frequent bra king • Not available on the situation of big inertia load and frequent and braking(the energy consumed on the stator and its cooling is better than DC braking)



No need to de-couple from the load Applied when rotating autotuning is not available



Torque & Rotating speed



Adjust the output frequency to avoid overvoltage of the DC bus during deceleration

DC braking

- No need to configure braking units and resistors
- Available on the situation when start the running motor after braking and the situation when keep the moment output after braking to zero speed
- Not available on the situation of big inertia load or instant stopping braking in high speed running

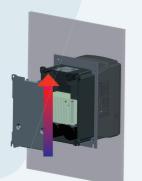
Short circuit braking

- No need to configure braking units and resistors, capable of braking quickly
- Applicable to the motors at quick start and stop or restart after braking
- Not applicable to big inertia load and frequent braking

Multi-Function with Simple Operation

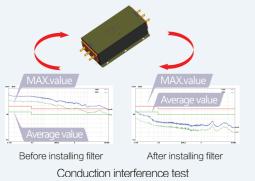
Separate Air-duct

The separate air duct prevents the contaminants into the electronic parts/components and greatly improves the protective effect of the inverter, as well as its reliability and service life, to adapt various complicated site environments. It can also facilitate the heatreleasing in control cabinets and the heat-releasing design of the customer.



3 Standard built-in C3 input filters, optional external C2 filters

C3 input filter is embedded in the factory to meet different application requirements, save installation space and avoid electromagnetic interference caused by incorrect selection and site installation.



Remarks: C2 filter: EMC performance of the inverter achieves the limited usage requirement in civil environment. C3 filter: FMC performance of the inverter achieves the limited usage requirement in civil environment.

2 Multiple installation modes

0.75~200kW: Wall mounting and flange mounting 200~315kW: Wall mounting and floor mounting 350~500kW: Floor mounting

Remark: above power ratings are subject to G type machine.



4 Book structure

Parallel installation Smaller installation space with less cost and beautiful appearance.



Multi-Function with Simple Operation

5 The rivet design ensures reliable integration connection

Greener Proper grounding Stronger corrosion-resistance Excellent EMC performance



GD200A series

Membrane keypad design (which can be connected to external keypads) is available for inverters (≤ 15 kW); swappable keypads are standard for inverters (≥18.5kW)



Terminals	Quantity	Features
ON-OFF input	8 channels	1KHz NPN and PNP
High speed	0.75	9.3
Pulse input	1 channel	50KHz NPN and PNP
Analog input	2 channels	0~10V,0~20mA, -10V~+10V
ON-OFF output	1 channel	Max. output frequentcy:1KHz
High speed	1.5	5.0
Pulse output	1 channel	Max. output frequentcy:50KHz
Analog output	2 channels	0~10V,0~20mA
Relay output	2 channels	3A/250DAC, 1A/30VDC, NO+NC



6 Smaller Size

Due to the thermal simulation and advanced modularized design, the size of our product is reduced greatly. The width ratio between Goodrive300 and CHF100A is shown in the figure below (the Max. percentage is 50%)



8 High Performance Keypad

External LED keypads are standard for inverters (≥18.5kW) to support parameters upload and download, the maximum external length is 200M and the keypads have digital potentiometers; external keypads are optional for inverters (≤15kW).



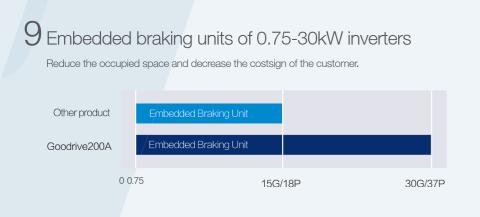
External keypad



LCD keypad

The optional external LCD keypad supports parameters loading and unloading with English.

Multi-Function with Simple Operation



10 Supporting common DC bus

Reduce the power lost on DBR Note the impact current and the capacity of the input AC system

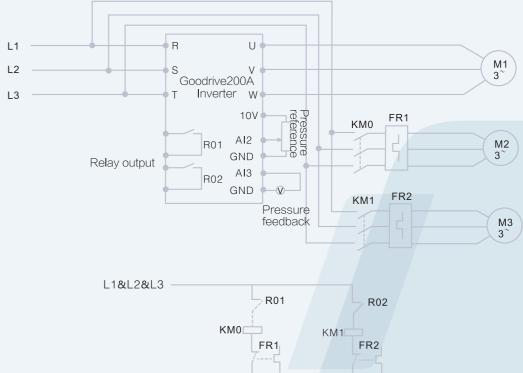


Multi-Function with Simple Operation



Goodrive200A

12 Function of water supply



In the diagram above, M2 and M3 are auxiliary motors which are controlled by RO1 and RO2. PID constant-pressure automatic control system is formed by the inverter through pressure feedback. The pressure reference can apply analog or keypad input. 485 remote communications is also supported.



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V	
W	



Motor

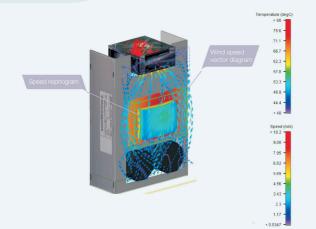


Reliable Quality Certificated

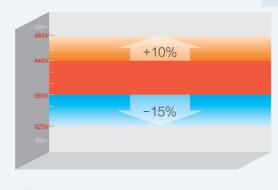
The product design follows IEC national standards and passes the CE test certification.

CE

2 Advanced thermal technology makes exact thermal design



3 Wide voltage range meets the requirement of grid environment



AC 3PH:380V(-15%)-440V(+10%) Wide voltage range

Reliable Quality Certificated

4 Perfect and reliable test system ensure products adapt complicated site environments

Experiment type	Experiment name	Classification
		Package compression experiments
		Package resonance imaging and storage test
		Package random vibration test
	Package experiments	Package dropping test
Mechanical		Package rolling test
reliability		Package dumping test
experiments		Package inclined impact test
	Impact test	Half-sine wave impulse test(non-working state)
	impact test	Trapezoidal wave impulse test (non-working state)
	Vibration test	Sinusoidal vibration test (working state)
	vibration test	Random vibration test (working and non-working state)
Climatic environmental reliability test		Low temperature storage test
		High temperature storage test
	Temperature experiment	Low temperature experiments
		High temperature experiments
		Temperature gradient experiments
		Temperature impact test
Climatic	Thermal test	Constant thermal test
environmental reliability test	inermai test	Alternation thermal test
	Calteratest	Constant salt spray test
	Salt spray test	Alternation salt spray test
		Low Air Pressure Test
	Low air pressure test	Low temperature and low pressure test
		High temperature and low pressure test

Remarks:

INVT is the only manufacturer achieved ACT certificate of TÜV SÜD . The full name of ACT is Acceptance of Client's Testing, which means the German TÜV SÜD admit the technology level of the lab and accept their separate testing data and test reports officially.





Electric Vibration System

Low Pressure Test Chamber (L) Chamber (R)







Natural Convection Test Chamber (L) Constant Temperature and Humidity Test Thermal Shock Test Chamber (R)



Technical Specifications

Main Applications



Air compressor



Warming and water supply



Oil industry



Plastics machine



Mining



Fans and water pumps

	Function	
	Input voltage (V)	AC 3F
Input	Input current (A)	Refer
mpar	Input frequency (Hz)	50Hz Allowe
Output	Output voltage (V)	0~inp
Output	Output frequency (Hz)	0~400
	Control mode	Spac
	Adjustable-speed ratio	1:100
	Speed control accuracy	±0.29
Technical control feature	Speed fluctuation	±0.3
	Torque response	<20m
	Torque control accuracy	10%
	Starting torque	0. 5H
	Overload capability	Gtyp
	Overload capability	G type 150% 180% 200% P type 120%
	Frequency setting	Digita runnir setting Realiz
Running control feature	Auto voltage adjustment	Keep
teature	Fault protection	Provic under
	Speed tracking	Resta
	Terminal analog input resolution	≤10m
	Terminal switch input resolution	≤2ms
	Analog input	2 cha
	Analog output	2 cha
Peripheral interface	Digital input	8 cha 1 cha
Intenace	Digital output	1 cha 1 cha
	Relay output	2 cha RO1A RO2A Conta
	Mountable method	Wall, f
	Temperature of the running environment	-10~5
	Ingress protection	IP20
Others	Cooling	Air-co
Others	Braking unit	Built-i Exterr
	Braking resister	Exteri
	EMC filter	Buil – i Optio



Illustration				
	ш.,	ot:	-	

PH 400V±15%

to the rated value

or 60Hz

ed range: 47~63Hz

ut voltage

OHz

e Vector PWM (SVPWM), Sensorless Vector Control (SVC)

% (SVC)

% (SVC)

ns (SVC)

z/150% (SVC)

of rated current: 1 minute of rated current: 10 seconds of rated current: 1 second

of rated current: 60 second

setting, analog setting, pulse frequency setting, multi-step speed ng setting, simple PLC setting, PID setting, MODBUS communication , PROFIBUS communication setting.

ze the shifting between the set combination and set channel.

a stable voltage automatically when the grid voltage transients

de over 30 fault protection functions: overcurrent, overvoltage, voltage, overheating, phase loss and overload, etc.

art the rotating motor smoothly

nnels (AI1, AI2) 0~10V/0~20mA and 1 channel (AI3) -10~10V

annels (AO1, AO2) 0~10V /0~20mA

annels common input, the Max. frequency: 1kHz nnel high speed input, the Max. frequency: 50kHz

annel high speed pulse output, the Max. frequency: 50kHz; annel Y terminal open collector pole output

annels programmable relay output NO, RO1B NC, RO1C common terminal NO, RO2B NC, RO2C common terminal actor capability: 3A/AC250V,1A/DC30V

lange and floor mountable

50℃, derate above 40℃

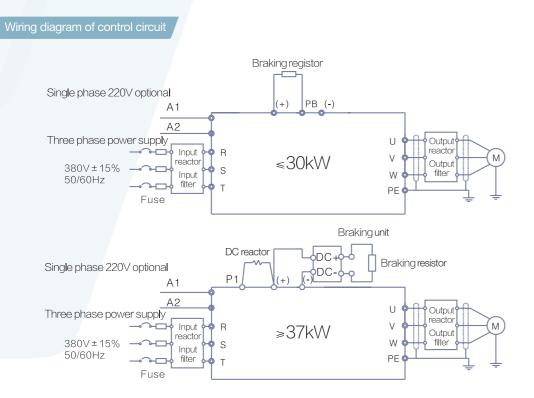
oling

n braking unit for below 30G/37P (including 30G/37P) al braking unit for others

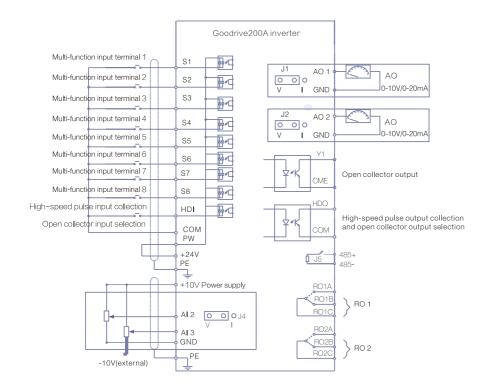
nal braking

n C3 filter meet the degree requirement of IEC61800-3 C3 nal external filter ,meet the degree requirement of IEC61800-3 C2

Standard Wiring



Wiring diagram of the control circuit



/ Type Selection

Inverter model	Rated output power (kW)	Input current (A)	Rated output current (A)
	3-phase 22	0VAC±15%	
GD200A-0R75G-2	0.75	5	4.5
GD200A-1R5G-2	1.5	7.7	7
GD200A-2R2G-2	2.2	11	10
GD200A-004G-2	3.7	17	16
GD200A-5R5G-2	5.5	21	20
GD200A-7R5G-2	7.5	31	30
GD200A-011G-2	11	43	42
GD200A-015G-2	15	56	55
GD200A-018G-2	18.5	71	70
GD200A-022GP-2	22	81	80
GD200A-030G-2	30	112	110
GD200A-037G-2	37	132	130
GD200A-045G-2	45	163	160
GD200A-055G-2	55	181	190
	3-phase 38	0VAC±15%	
GD200A-0R75G-4	0.75	3.4	2.5
GD200A-1R5G-4	1.5	5.0	3.7
GD200A-2R2G-4	2.2	5.8	5
GD200A-004G/5R5P-4	4/5.5	13.5/19.5	9.5/14
GD200A-5R5G/7R5P-4	5.5/7.5	19.5/25	14/18.5
GD200A-7R5G/011P-4	7.5/11	25/32	18.5/25
GD200A-011G/015P-4	11/15	32/40	25/32
GD200A-015G/018P-4	15/18.5	40/47	32/38
GD200A-018G/022P-4	18.5/22	47/56	38/45
GD200A-022G/030P-4	22/30	56/56	45/60
GD200A-030G/037P-4	30/37	70/80	60/75
GD200A-037G/045P-4	37/45	80/94	75/92
GD200A-045G/055P-4	45/55	94/128	92/115
GD200A-055G/075P-4	55/75	128/160	115/150
GD200A-075G/090P-4	75/90	160/190	150/180
GD200A-090G/110P-4	90/110	190/225	180/215
GD200A-110G/132P-4	110/132	225/265	215/260
GD200A-132G/160P-4	132/160	265/310	260/305
GD200A-160G/200P-4	160/200	310/385	305/380
GD200A-200G/220P-4	200/220	385/430	380/425
GD200A-220G/250P-4	220/250	430/485	425/480
GD200A-250G/280P-4	250/280	485/545	480/530
GD200A-280G/315P-4	280/315	545/610	530/600
GD200A-315G/350P-4	315/350	610/625	600/650
GD200A-350G/400P-4	350/400	625/715	650/720
GD200A-400G-4	400	715	720
GD200A-500G-4	500	890	860

Remarks:

(1) The input current of the inverter 0.75G-315G/350P is tested when the input voltage is 380V and there is no DC reactor and output/input reactor. (2)The current of the inverter 350G/400P-500G is tested when the input voltage is 380V and there is input reactor. (3)Rated output current is defined when the rated output voltage is 380V.



Installation Dimension Table

Installation dimension when wall mounting Installation dimension (unit: mm)							
Мо	odel	W1	W2	H1	H2	D1	Installation holes
	0.75kW~2.2kW	146	131	256	243.5	181	6
	4kW~7.5kW	170	151	320	303.5	216	6
3-phase 220VAC Series	11kW~15kW	255	237	407	384	245	7
001100	18.5kW ~30kW	270	130	555	540	325	7
	37kW~55kW	325	200	680	661	365	9.5
	0.75kW~2.2kW	126	115	186	175	174.5	5
	4kW~5.5kW	146	131	256	243.5	181	6
	7.5kW~15kW	170	151	320	303.5	216	6
	18.5kW	230	210	342	311	216	6
3-phase 380VAC Series	22kW~30kW	255	237	407	384	245	7
00100	37kW~55kW	270	130	555	540	325	7
	75kW~110kW	325	200	680	661	365	9.5
	132kW~200kW	500	180	870	850	360	11
	220kW~315kW	680	230	960	926	379.5	13

Installat	ion dimension wh	ien flang	je mour	nting						Installati	on dimen	sion (unit: mm)
Inv	erter model	W1	W1	W3	W4	H1	H2	H3	H4	D1	D2	Installation holes
	0.75kW~2.2kW	170.2	131	150	9.5	292	276	260	6	167	84.5	6
3-phase	4kW~7.5kW	191.2	151	174	11.5	370	351	324	15	196.3	113	6
220VAC	11kW~15kW	275	237	259	11	445	426	404	10	245	119	7
series	18.5kW ~30kW	270	130	261	11	445	426	404	10	245	119	7
	37kW~55kW	325	200	317	58.5	680	661	626	23	363	182	9.5
	0.75kW~2.2kW	150.2	115	130	7.5	234	220	190	13.5	155	65.5	5
	4kW~5.5kW	170.2	131	150	9.5	292	276	260	6	167	84.5	6
	7.5kW~15kW	191.2	151	174	11.5	370	351	324	15	196.3	113	6
3-phase	18.5kW	250	210	234	12	375	356	334	10	216	108	6
380VAC series	22kW~30kW	275	237	259	11	445	426	404	10	245	119	7
	37kW~55kW	270	130	261	11	445	426	404	10	245	119	7
	75kW~110kW	325	200	317	58.5	680	661	626	23	363	182	9.5
	132kW~200kW	500	180	480	60	870	850	796	37	358	178.5	11

Installation dimension w	hen floor i	mounting					Ins	stallation din	nension (unit: mm)
Inverter model	W1	W1	W3	W4	H1	H2	D1	D2	Installation holes
220kW~315W	750	230	714	680	1410	1390	380	150	13\12
350kW~500kW	620	230	553	-	1700	1678	560	240	22\12

Product Weight And Outer Packing Dimension

Model	Power	Gross weight(kg)	Net weight(kg)	Packing material	Outer packing size (mm)
	0.75-2.2KW	4.1kg	3.2kg	Carton box	360mmx250mmx265mm
	4-7.5KW	7.4kg	5.9kg	Carton box	445mmx295mmx320mm
GD200A 3-phase 220VAC series	11-15KW	11kg	13kg	Carton box	550mmx375mmx375mm
ZZUVAC SEIIES	18.5-30KW	32kg	30kg	Carton box	695mmx410mmx470mm
	37-55KW	67kg	47kg	Wooden box	760mmx445mmx580mm
	0.75-2.2kW	2.5kg	1.9kg	Carton box	275mmx205mmx235mm
	4-5.5kW	4.1kg	3.2kg	Carton box	360mmx250mmx265mm
	7.5-15kW	7.4kg	5.9kg	Carton box	445mmx295mmx320mm
	18.5kW	9kg	7.6kg	Carton box	460mmx340mmx330mm
GD200A 3-phase	22-30kW	11kg	13kg	Carton box	550mmx375mmx375mm
380VAC series	37-55kW	32kg	30kg	Carton box	695mmx410mmx470mm
	75-110kW	67kg	47kg	Wooden box	760mmx445mmx580mm
	132-200kW	110kg	85kg	Wooden box	971mmx631mmx565mm
	220-315kW	165kg	135kg	Wooden box	1086mmx826mmx595mm
	350-500kW	450kg	410kg	Wooden box	1850mmx840mmx820mm

Installation Diagram

/ 3-phase 220VAC Series Wall Mounting for 0.75-55kW Inverters

0.75-7.5kW Ins	tallation diagram	
		H2

11-15kW Installation diagram

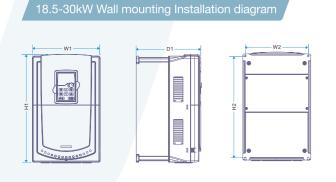




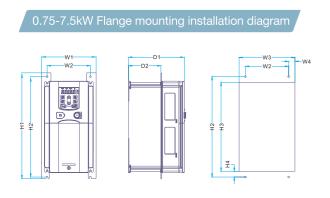
W2			
Ŧ	18-55kW Insta	Ilation diagram	

/ 3-phase 380VAC Series Wall Mounting for 0.75-315kW Inverters

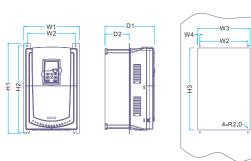




3-phase 220VAC Series Flange Mounting for 0.75-55kW Inverters

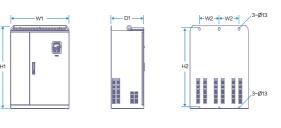


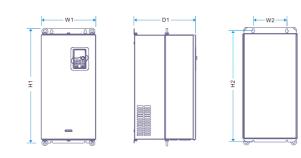
11-15kW Flange mounting installation diagram



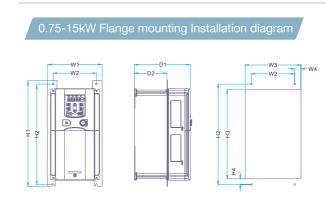






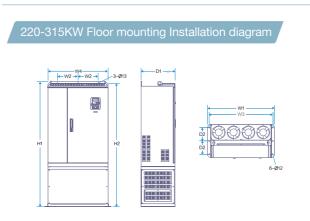


/ 3-phase 380VAC Series Flange Mounting for 0.75-200kW Inverters

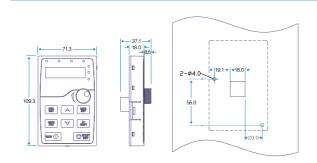


18.5-30kW Flange mounting Installation diagram -W3-_D2_ W2 4-R2.0

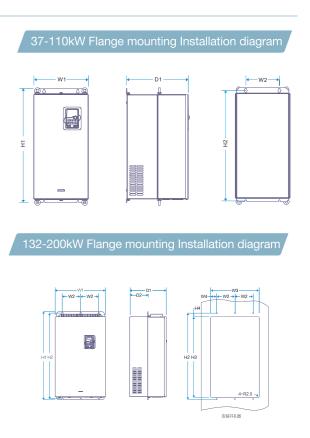
/ Floor Mounting for 200-500kW Inverters

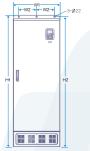


/ Outline Dimension for Keyboard















Optional Parts



/ Installation bracket for the keypad

Installation bracket or M3 screw can be used in the installation of external keypad. The bracket of 0.75G-30G//37P inverters is standard. The bracket of 37G/40P-500G inverters is optional



/ LCD keypad 10 rows of DH displaying Compatible with the LED keypad

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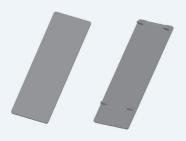
Installation Base

Only optional in 220G/250P-315G/350P inverters .lts bases can be built in an input AC (or DC) reactor or an output AC rector



/ Heat-releasing Hole

Inverter needs to derate when selecting a cover Consult with the INVT technicians for the detailed information.



AC single-phase 220V input auxiliary power supply For more convenient debugging

/ Reactor

The inverters of 37G/45P and above can be connected with external DC reactor. The reactor can improve the power factor and avoid damage to the recitifier bridge caused by overcurrent and damage to the rectifier circuit by harmonic

Inverter model	Input reactor	DC reactor	Output reactor
GD200A-0R7G-4	ACL2-1R5-4	/	OCL2-1R5-4
GD200A-1R5G-4	ACL2-1R5-4	/	OCL2-1R5-4
GD200A-2R2G-4	ACL2-2R2-4	/	OCL2-2R2-4
GD200A-004G/5R5P-4	ACL2-004-4	/	OCL2-004-4
GD200A-5R5G/7R5P-4	ACL2-5R5-4	/	OCL2-5R5-4
GD200A-7R5G/011P-4	ACL2-7R5-4	/	OCL2-7R5-4
GD200A-011G/015P-4	ACL2-011-4	/	OCL2-011-4
GD200A-015G/018P-4	ACL2-015-4	/	OCL2-015-4
GD200A-018G/022P-4	ACL2-018-4	/	OCL2-018-4
GD200A-022G/030P-4	ACL2-022-4	/	OCL2-022-4
GD200A-030G/037P-4	ACL2-030-4	/	OCL2-030-4
GD200A-037G/045P-4	ACL2-037-4	DCL2-037-4	OCL2-037-4
GD200A-045G/055P-4	ACL2-045-4	DCL2-045-4	OCL2-045-4
GD200A-055G/075P-4	ACL2-055-4	DCL2-055-4	OCL2-055-4
GD200A-075G/090P-4	ACL2-075-4	DCL2-075-4	OCL2-075-4
GD200A-090G/110P-4	ACL2-090-4	DCL2-090-4	OCL2-090-4
GD200A-110G/132P-4	ACL2-110-4	DCL2-110-4	OCL2-110-4
GD200A-132G/160P-4	ACL2-132-4	DCL2-132-4	OCL2-132-4
GD200A-160G/185P-4	ACL2-160-4	DCL2-160-4	OCL2-160-4
GD200A-185G/200P-4	ACL2-200-4	DCL2-200-4	OCL2-200-4
GD200A-200G/220P-4	ACL2-200-4	DCL2-200-4	OCL2-200-4
GD200A-220G/250P-4	ACL2-250-4	DCL2-250-4	OCL2-250-4
GD200A-250G/280P-4	ACL2-250-4	DCL2-250-4	OCL2-250-4
GD200A-280G/315P-4	ACL2-280-4	DCL2-280-4	OCL2-280-4
GD200A-315G/350P-4	ACL2-315-4	DCL2-315-4	OCL2-315-4
GD200A-350G/400P-4	standard configuration	DCL2-350-4	OCL2-350-4
GD200A-400G-4	standard configuration	DCL2-400-4	OCL2-400-4
GD200A-500G-4	standard configuration	DCL2-500-4	OCL2-500-4



/ Filters

Inverter model	input filter	output filter
GD200A-0R7G-4		
GD200A-1R5G-4	FLT-P04006L-B	FLT-L04006L-B
GD200A-2R2G-4		
GD200A-004G/5R5P-4	FLT-P04016L-B	FLT-L04016L-B
GD200A-5R5G/7R5P-4	FLI-F04010L-D	FLI-L04010L-D
GD200A-7R5G/011P-4	FLT-P04032L-B	FLT-L04032L-B
GD200A-011G/015P-4	T EI-T 04032E-D	T LI-L04032L-D
GD200A-015G/018P-4	FLT-P04045L-B	FLT-L04045L-B
GD200A-018G/022P-4		
GD200A-022G/030P-4	FLT-P04065L-B	FLT-L04065L-B
GD200A-030G/037P-4		T EI-E04003E-D
GD200A-037G/045P-4	FLT-P04100L-B	FLT-L04100L-B
GD200A-045G/055P-4		
GD200A-055G/075P-4	FLT-P04150L-B	FLT-L04150L-B
GD200A-075G/090P-4		
GD200A-090G/110P-4	FLT-P04200L-B	FLT-L04200L-B
GD200A-110G/132P-4	FLT-P04250L-B	FLT-L04250L-B
GD200A-132G/160P-4		
GD200A-160G/185P-4		
GD200A-185G/200P-4	FLT-P04400L-B	FLT-L04400L-B
GD200A-200G/220P-4		
GD200A-220G/250P-4		
GD200A-250G/280P-4	FLT-P04600L-B	FLT-L04600L-B
GD200A-280G/315P-4		
GD200A-315G/350P-4		
GD200A-350G/400P-4	FLT-P04800L-B	FLT-L04800L-B
GD200A-400G-4		
GD200A-500G-4	FLT-P041000L-B	FLT-L041000L-B

Braking system

The power of 30G/37P(including) for GD200A inverters built-in barking unit, and 37G/45P(including) inverters need external braking unit; please choosing the resister and power of braking resister for site situation(require of braking torque and amount). Braking resister can increase braking torque of inverter , In the table it designs the resister power according to 100%braking torque,10% braking count,50% braking count,80% braking count; and customers can choose braking system according to specific process and work condition.

Inverter model	braking unit model	100%braking torque fit braking resisters(Ω)	power of braking resister(kW) (10% braking count)	power of braking resister(kW) (50% braking count)	power of braking resister(kW) (80% braking count)	allowing minimum braking resister(Ω)
GD200A-0R7G-4	built-in braking unit	653	0.1	0.6	0.9	240
GD200A-1R5G-4		326	0.23	1.1	1.8	170
GD200A-2R2G-4		222	0.33	1.7	2.6	130
GD200A-004G/5R5P-4		122	0.6	3	4.8	80
GD200A-5R5G/7R5P-4		89	0.75	4.1	6.6	60
GD200A-7R5G/011P-4		65	1.1	5.6	9	47
GD200A-011G/015P-4		44	1.7	8.3	13.2	31
GD200A-015G/018P-4		32	2	11	18	23
GD200A-018G/022P-4		27	3	14	22	19
GD200A-022G/030P-4		22	3	17	26	17
GD200A-030G/037P-4		16	5	23	36	17
GD200A-037G/045P-4	DBU100H-060-4	13	6	28	44	11.7
GD200A-045G/055P-4	DBU100H-110-4	10	7	34	54	6.4
GD200A-055G/075P-4		8	8	41	66	
GD200A-075G/090P-4		6.5	11	56	90	
GD200A-090G/110P-4	DBU100H-160-4	5.4	14	68	108	4.4
GD200A-110G/132P-4		4.5	17	83	132	
GD200A-132G/160P-4	DBU100H-220-4	3.7	20	99	158	3.2
GD200A-160G/185P-4	DBU100H-320-4	3.1	24	120	192	2.2
GD200A-185G/200P-4		2.8	28	139	222	
GD200A-200G/220P-4		2.5	30	150	240	
GD200A-220G/250P-4	DBU100H-400-4	2.2	33	165	264	1.8
GD200A-250G/280P-4		2.0	38	188	300	
GD200A-280G/315P-4	Two DBU100H-320-4	3.6*2	21*2	105*2	168*2	2.2*2
GD200A-315G/350P-4		3.2*2	24*2	118*2	189*2	
GD200A-350G/400P-4		2.8*2	27*2	132*2	210*2	
GD200A-400G-4	Two DBU100H-400-4	2.4*2	30*2	150*2	240*2	1.8*2
GD200A-500G-4		2*2	38*2	186*2	300*2	

Remarks: C2 standard can be achieved of select above external filters





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