



## GD200A Series General Purpose Vector Control Drive 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 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.

## Product Advantage

- High performance
- Multi-function with simple operation
- Reliable quality certificated



## High Performance

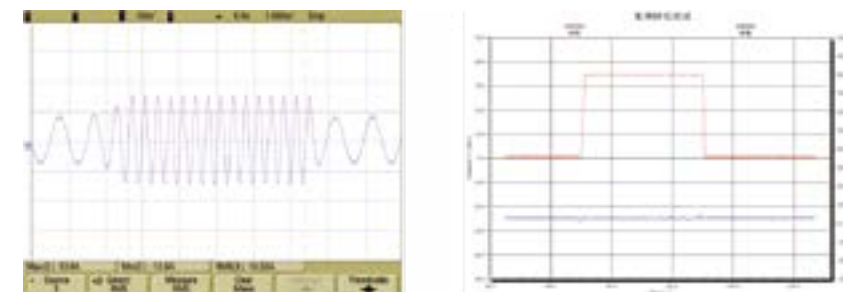
### • More Accurate Motor Autotuning

Accurate rotating and static motor autotuning  
Convenient debugging and easy operation

| Rotating autotuning  | Static autotuning   |
|--|---|
| De-couple from the load<br>Applied to the situation with high control accuracy | No need to de-couple from the load<br>Applied when rotating autotuning is not available |

### • 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

Torque & Rotating speed

### • Perfect voltage and current control, reducing the fault protection times

#### OC fault

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

#### OV fault

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

### • 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

#### 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

#### Flux braking

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

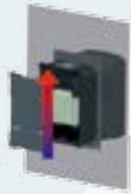
#### Short circuit braking

- 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 heat-releasing in control cabinets and the heat-releasing design of the customer.



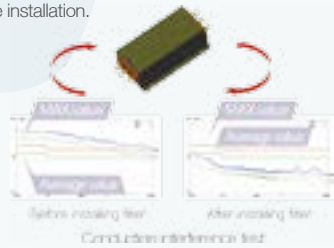
## • Multiple installation modes

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.



## • 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: EMC performance of the inverter achieves the limited usage requirement in civil environment.

## • Book structure

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



## • The rivet design ensures reliable integration connection

Greener Proper grounding  
Stronger corrosion-resistance Excellent EMC performance



## • 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%)



## • GD200A series

Membrane keypad design (which can be connected to external keypads) is available for inverters ( $\leq 15\text{kW}$ ); swappable keypads are standard for inverters ( $\geq 18.5\text{kW}$ )



| 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 frequency: 1KHz  |
| High speed    | 1.5        | 5.0                          |
| Pulse output  | 1 channel  | Max. output frequency: 50KHz |
| Analog output | 2 channels | 0~10V, 0~20mA                |
| Relay output  | 2 channels | 3A/250DAC, 1A/30VDC, NO+NC   |

## • High Performance Keypad

External LED keypads are standard for inverters ( $\geq 18.5\text{kW}$ ) to support parameters upload and download, the maximum external length is 200M and the keypads have digital potentiometers; external keypads are optional for inverters ( $\leq 15\text{kW}$ ).



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

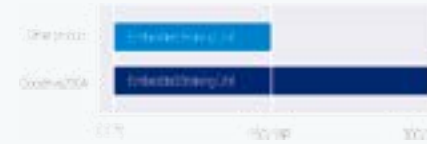
## • Available on DC power supply

Reduce the occupied space and decrease the cost of the customer.



## • Embedded braking units of 0.75-30kW inverters

Reduce the occupied space and decrease the cost of the customer.

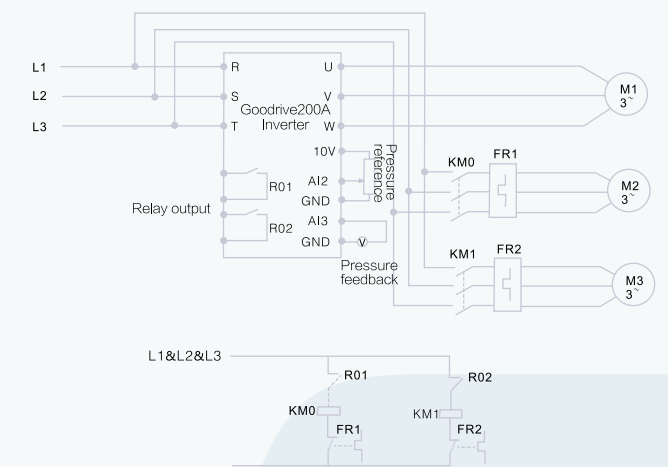


## • Supporting common DC bus

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



## • Function of water supply



In the diagram above, M2 and M3 are auxiliary motors which are controlled by R01 and R02. PID constant-pressure automatic control system is formed by the inverter through pressure reference feedback. The pressure reference can apply analog or keypad input. 485 remote communications is also supported.

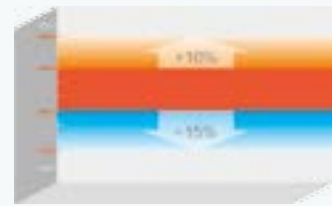
## • The product design follows IEC national standards and passes the CE test certification.



Remarks:  
Each Goodrive200A inverter has past the test certification



- Advanced thermal technology makes exact thermal design
- Wide voltage range meets the requirement of grid environment



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

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

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



Natural Convection Test Chamber (L)  
Thermal Shock Test Chamber (R)

## Main Applications



Air compressor



Oil industry



Warming and water supply



Plastics machine



Mining



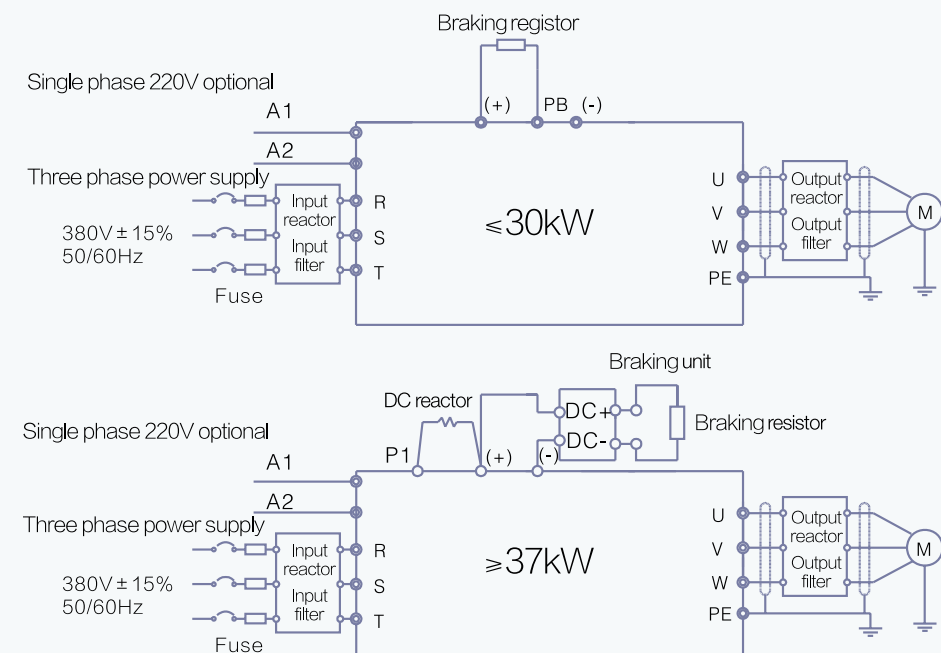
Fans and water pumps

# Technical Specifications

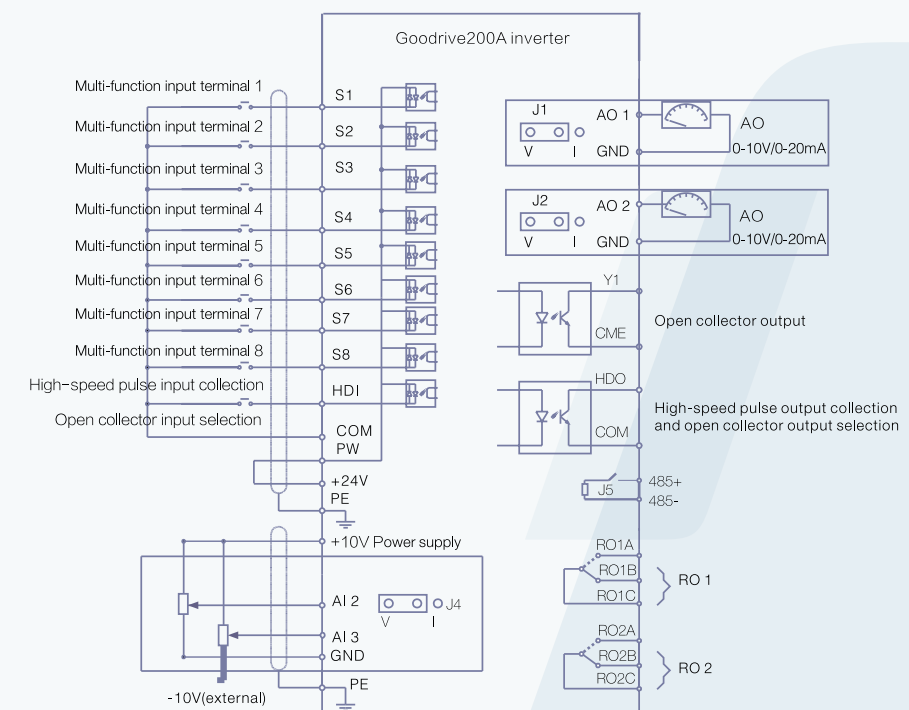
|                           | Function                               | Illustration   |
|---------------------------|--|--|
| Input                     | Input voltage (V)                      | AC 3PH 400V±15%  |
|                           | Input current (A)                      | Refer to the rated value   |
|                           | Input frequency (Hz)                   | 50Hz or 60Hz<br>Allowed range: 47~63Hz   |
| Output                    | Output voltage (V)                     | 0~input voltage  |
|                           | Output frequency (Hz)                  | 0~400Hz  |
| Technical control feature | Control mode                           | V/F  |
|                           | Motor type                             | Asynchronous motor   |
|                           | Speed ratio                            | Asynchronous motor 1:100   |
|                           | Overload capability                    | G type:<br>150% of rated current: 1 minute<br>180% of rated current: 10 seconds<br>200% of rated current: 1 second<br>P type:<br>120% of rated current: 60 second  |
|                           | Torque overload capacity               | G type:<br>150% for machines<br>180 % for quick response machines<br>P type:<br>120% for pump and fan  |
| Running control feature   | Frequency setting                      | Digital setting, analog setting, pulse frequency setting, multi-step speed running setting, simple PLC setting, PID setting, MODBUS communication setting, PROFIBUS communication setting. Realize the shifting between the set combination and set channel. |
|                           | Auto voltage adjustment                | Keep a stable voltage automatically when the grid voltage transients   |
|                           | Fault protection                       | Provide over 30 fault protection functions: overcurrent, overvoltage, undervoltage, overheating, phase loss and overload, etc.   |
|                           | Speed tracking                         | Restart the rotating motor smoothly  |
| Peripheral interface      | Terminal analog input resolution       | ≤10mV  |
|                           | Terminal switch input resolution       | ≤ 2ms  |
|                           | Analog input                           | 2 channels (AI1, AI2) 0~10V/0~20mA and 1 channel (AI3) -10~10V   |
|                           | Analog output                          | 2 channels (AO1, AO2) 0~10V /0~20mA  |
|                           | Digital input                          | 8 channels common input, the Max. frequency: 1kHz<br>1 channel high speed input, the Max. frequency: 50kHz   |
|                           | Digital output                         | 1 channel high speed pulse output, the Max. frequency: 50kHz;<br>1 channel Y terminal open collector pole output   |
| Relay output              |  | 2 channels programmable relay output<br>RO1A NO, RO1B NC, RO1C common terminal<br>RO2A NO, RO2B NC, RO2C common terminal<br>Contactor capability: 3A/AC250V,1A/DC30V   |
|                           | Mountable method                       | Wall, flange and floor mountable   |
| Others                    | Temperature of the running environment | -10~50°C, derate above 40°C  |
|                           | Ingress protection                     | IP20   |
|                           | Cooling                                | Air-cooling  |
|                           | Braking unit                           | Built-in braking unit for below 30G/37P (including 30G/37P)<br>External braking unit for others  |
|                           | Braking resistor                       | External braking   |
|                           | EMC filter                             | Optional built-in C3 filter: meet the degree requirement of IEC61800-3 C3<br>Optional external filter ,meet the degree requirement of IEC61800-3 C2  |

# Standard Wiring

Wiring diagram of the main circuit



Wiring diagram of the control board



# Type Selection

## Power ratings And Dimension

| Inverter model     | Rated output power (kW) | Input current (A) | Rated output current (A) | Gross weight (Kg) | Dimension (mm) |
|--------------------|-------------------------|-------------------|--------------------------|-------------------|----------------|
| 3-phase 220VAC±15% |                         |                   |                          |                   |                |
| GD200A-0R75G-2     | 0.75                    | 5                 | 4.5                      | 4.1kg             | 360x250x265    |
| 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                       | 7.4kg             | 445x295x320    |
| GD200A-7R5G-2      | 7.5                     | 31                | 30                       | 11kg              | 550x375x375    |
| 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                       | 32kg              | 695x410x470    |
| GD200A-030G-2      | 30                      | 112               | 110                      | 67kg              | 760x445x580    |
| GD200A-037G-2      | 37                      | 132               | 130                      |                   |                |
| GD200A-045G-2      | 45                      | 163               | 160                      |                   |                |
| GD200A-055G-2      | 55                      | 181               | 190                      |                   |                |
| 3-phase 380VAC±15% |                         |                   |                          |                   |                |
| GD200A-0R75G-4     | 0.75                    | 3.4               | 2.5                      | 2.5kg             | 275 x205 x235  |
| 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                   | 4.1kg             | 360 x250 x265  |
| 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                    | 7.4kg             | 445 x295 x320  |
| GD200A-018G/022P-4 | 18.5/22                 | 47/56             | 38/45                    | 9kg               | 460 x340 x330  |
| 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                   | 32kg              | 695 x410x470   |
| GD200A-055G/075P-4 | 55/75                   | 128/160           | 115/150                  | 67kg              | 760 x445 x580  |
| 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                  | 110kg             | 971 x631 x565  |
| 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                  | 165kg             | 1086x826x595   |
| 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                      | 450kg             | 1850x840x820   |
| 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

## Installation dimension when wall mounting

Installation dimension (unit: mm)

| Model                 | W1           | W2  | H1  | H2  | D1    | Installation holes |     |
|-----------------------|--------------|-----|-----|-----|-------|--------------------|-----|
| 3-phase 220VAC Series | 0.75kW~2.2kW | 146 | 131 | 256 | 243.5 | 181                | 6   |
|                       | 4kW~7.5kW    | 170 | 151 | 320 | 303.5 | 216                | 6   |
|                       | 11kW~15kW    | 255 | 237 | 407 | 384   | 245                | 7   |
|                       | 18.5kW~30kW  | 270 | 130 | 555 | 540   | 325                | 7   |
|                       | 37kW~55kW    | 325 | 200 | 680 | 661   | 365                | 9.5 |
| 3-phase 380VAC Series | 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   |
|                       | 22kW~30kW    | 255 | 237 | 407 | 384   | 245                | 7   |
|                       | 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                 |     |

## Installation dimension when flange mounting

Installation dimension (unit: mm)

| Inverter model        | W1           | W1    | W3  | W4  | H1   | H2  | H3  | H4  | D1   | D2    | Installation holes |     |
|-----------------------|--------------|-------|-----|-----|------|-----|-----|-----|------|-------|--------------------|-----|
| 3-phase 220VAC series | 0.75kW~2.2kW | 170.2 | 131 | 150 | 9.5  | 292 | 276 | 260 | 6    | 167   | 84.5               | 6   |
|                       | 4kW~7.5kW    | 191.2 | 151 | 174 | 11.5 | 370 | 351 | 324 | 15   | 196.3 | 113                | 6   |
|                       | 11kW~15kW    | 275   | 237 | 259 | 11   | 445 | 426 | 404 | 10   | 245   | 119                | 7   |
|                       | 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 |
| 3-phase 380VAC series | 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   |
|                       | 18.5kW       | 250   | 210 | 234 | 12   | 375 | 356 | 334 | 10   | 216   | 108                | 6   |
|                       | 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 when floor mounting

Installation dimension (unit: mm)

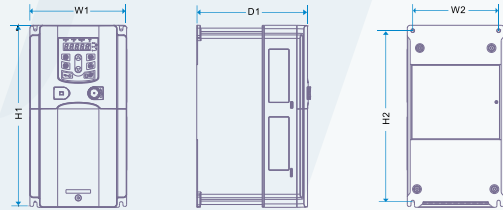
| Inverter model | W1  | W1  | W3  | W4  | H1   | H2   | D1  | D2  | Installation holes |
|----------------|-----|-----|-----|-----|------|------|-----|-----|--------------------|
| 220kW~315W     | 750 | 230 | 714 | 680 | 1410 | 1390 | 380 | 150 | 13\12              |
| 350kW~500kW    | 620 | 230 | 553 | -   | 1700 | 1678 | 560 | 240 | 22\12              |



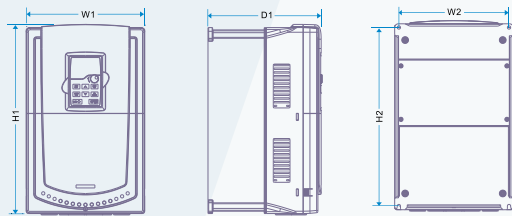
# Installation Diagram

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

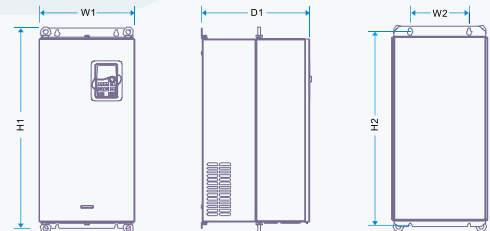
0.75-7.5kW Installation diagram



11-15kW Installation diagram

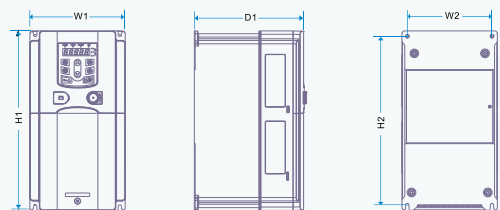


18-55kW Installation diagram

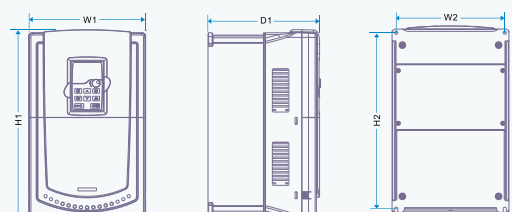


- 3-phase 380VAC Series  
Wall Mounting for 0.75-315kW Inverters

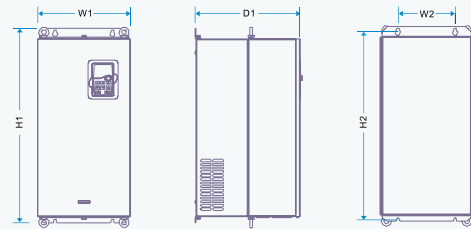
0.75-15kW Wall mounting Installation diagram



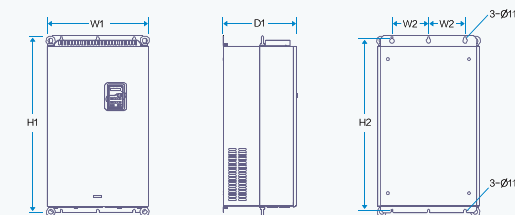
18.5-30kW Wall mounting Installation diagram



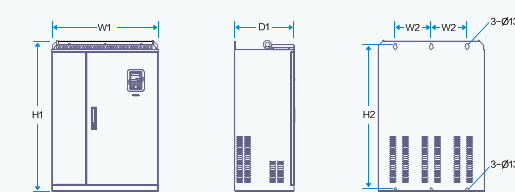
37-110kW Wall mounting Installation diagram



132-200kW Wall mounting Installation diagram

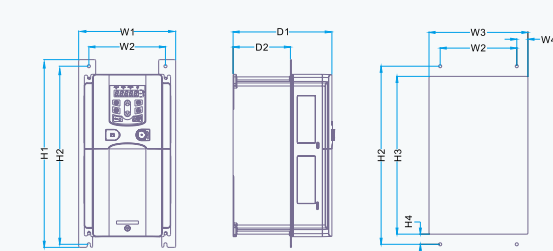


220-350kW Wall mounting Installation diagram

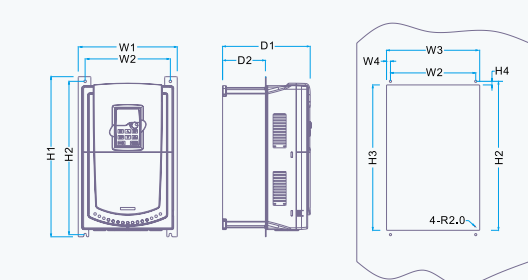


- 3-phase 220VAC Series  
Flange Mounting for 0.75-55kW Inverters

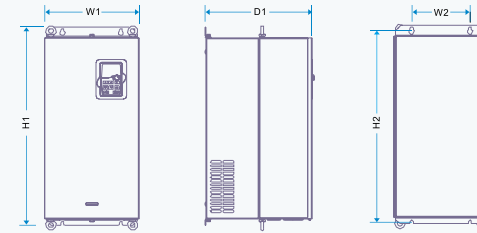
0.75-7.5kW Flange mounting installation diagram



11-15kW Flange mounting installation diagram

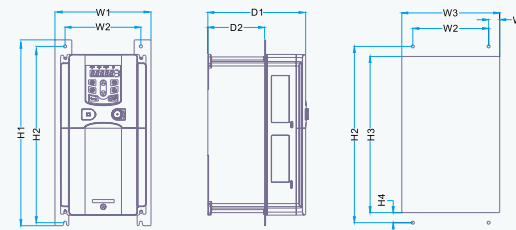


18-55kW Flange mounting installation diagram

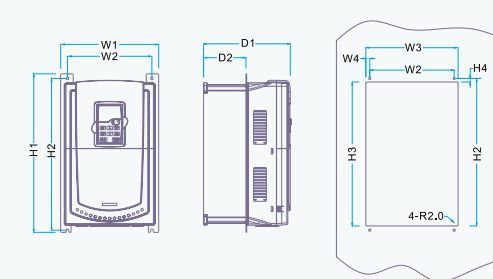


- 3-phase 380VAC Series  
Flange Mounting for 0.75-200kW Inverters

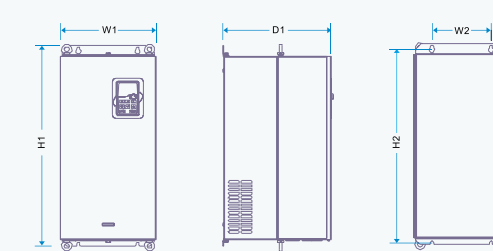
0.75-15kW Flange mounting Installation diagram



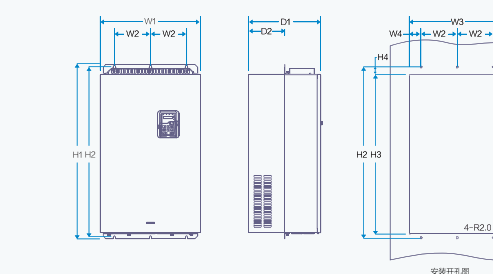
18.5-30kW Flange mounting Installation diagram



37-110kW Flange mounting Installation diagram

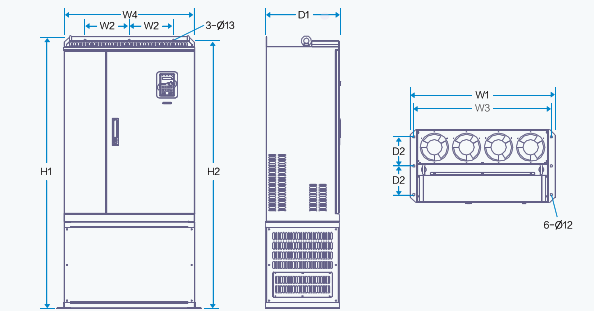


132-200kW Flange mounting Installation diagram

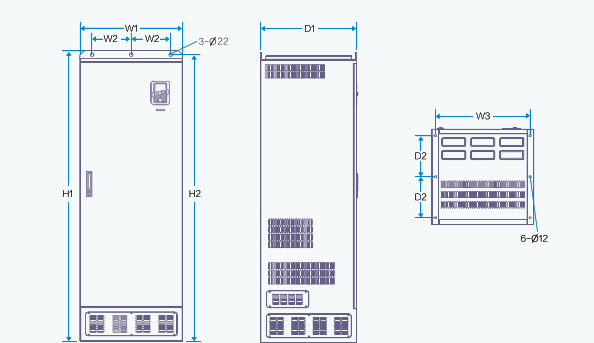


- Floor Mounting for 200-500kW Inverters

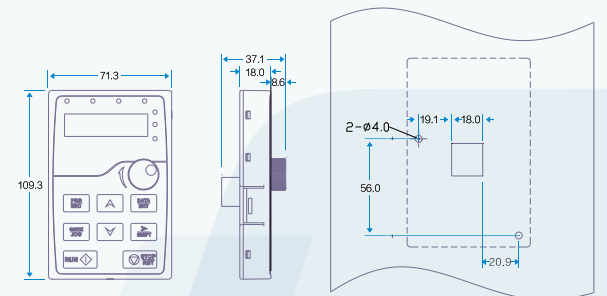
220-315kW Floor mounting Installation diagram



350-500kW Floor mounting Installation diagram



- Dimension for Keyboard



# Optional Parts

## • Flange Mounting Panel

Needed for 0.75G-30G//37P inverters.  
Not needed for 37G/40P-200G//220P inverters.



## • 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



## • Filters

| Inverter model                        | input filter            | output filter  |                |
|---------------------------------------|-------------------------|----------------|----------------|
| GD200A<br>3-phase<br>380VAC<br>Series | G:0.7—2.2KW             | FLT-P04006L-B  | FLT-L04006L-B  |
|                                       | G:4—5.5KWP:5.5—7.5KW    | FLT-P04016L-B  | FLT-L04016L-B  |
|                                       | G:7.5—11KW P:11—15KW    | FLT-P04032L-B  | FLT-L04032L-B  |
|                                       | G:15—18KW P:18—22KW     | FLT-P04045L-B  | FLT-L04045L-B  |
|                                       | G:22—30KW P:30—37KW     | FLT-P04065L-B  | FLT-L04065L-B  |
|                                       | G:37—45KW P:45—55KW     | FLT-P04100L-B  | FLT-L04100L-B  |
|                                       | G:55—75KW P:75—90KW     | FLT-P04150L-B  | FLT-L04150L-B  |
|                                       | G:90KW P:110KW          | FLT-P04200L-B  | FLT-L04200L-B  |
|                                       | G:110—132KW P:132—160KW | FLT-P04250L-B  | FLT-L04250L-B  |
|                                       | G:160—200KW P:185—220KW | FLT-P04400L-B  | FLT-L04400L-B  |
|                                       | G:220—280KW P:250—315KW | FLT-P04600L-B  | FLT-L04600L-B  |
|                                       | G:315—400KW P:350—400KW | FLT-P04800L-B  | FLT-L04800L-B  |
|                                       | G:500KW                 | FLT-P041000L-B | FLT-L041000L-B |

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

## • Installation Base

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



## • 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 rectifier 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     |

• Braking system

The power of 30G/37P(including) for GD200A inverters built-in braking unit, and 37G/45P(including) inverters need external braking unit; please choosing the resistor and power of braking resistor for site situation(require of braking torque and amount).

Braking resistor can increase braking torque of inverter , In the table it designs the resistor 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   |                                      |      |

# Sales Network



- INVT Sales & Service in 9 countries: Russia, India, Thailand, UAE, Italy, UK, Germany, Australia, Mexico
- Sales and Service Partners in 57 countries

