

GD200A Series

Vector General Purpose Inverter



GD200A Series Vector General Purpose Inverter Product Instruction	2
Product Advantage	2
GD200A Series General Purpose Inverters Product Introduction	3
Product Advantage.....	3
High Performance.....	4
Multi-function with simple operation.....	5
Reliable Quality Certificated.....	9
Main Applications.....	11
Technical Specifications	12
Standard Wiring.....	13
Wiring diagram of the main circuit	13
Wiring diagram of the control circuit.....	13
Type Selection.....	14
Power ratings	14
Installation Dimension Table.....	15
Product Weight And Outer Packing Dimension.....	16
Installation Diagram.....	16
Optional Parts.....	19
Sales Network.....	23



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 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

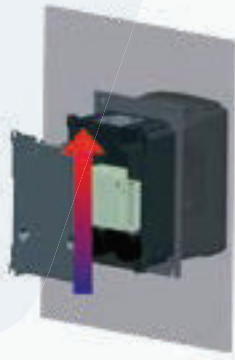
- High performance
- Multi-function with simple operation
- Reliable quality certificated



Multi-Function with Simple Operation

1 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.



2 Multiple installation modes

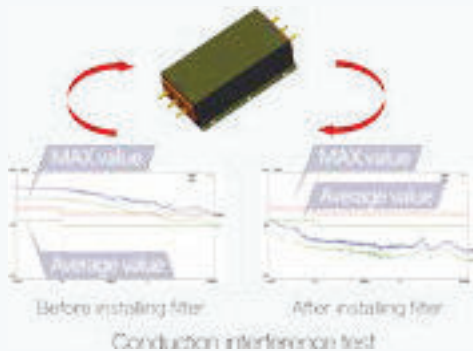
0.75~200kW: Wall mounting and flange mounting
200~315kW: Wall mounting and floor mounting
350~500kW: Floor mounting

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



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

4 Book structure

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



Multi-Function with Simple Operation

9 Embedded braking units of 0.75-30kW inverters

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



10 Supporting common DC bus

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



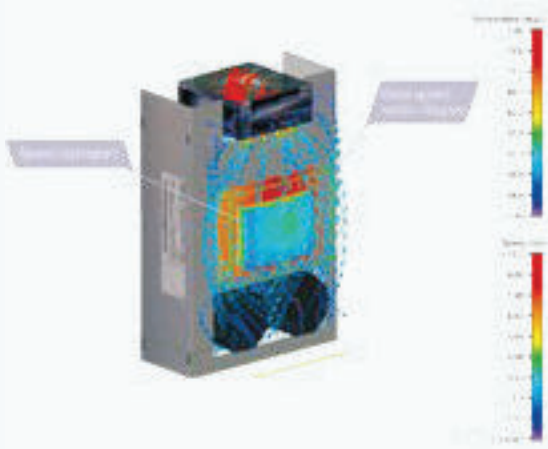
Reliable Quality Certificated

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

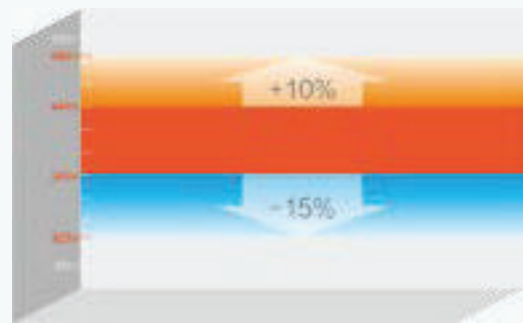


Remarks:
Each Goodrive200A inverter has past the test certification

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

Main Applications



Air compressor



Oil industry



Warming and water supply



Plastics machine



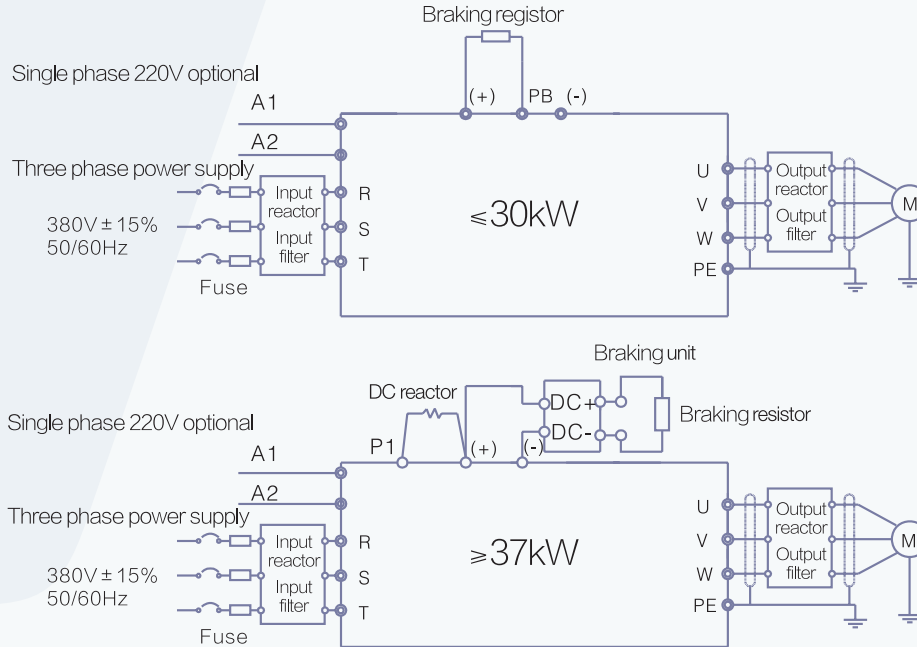
Mining



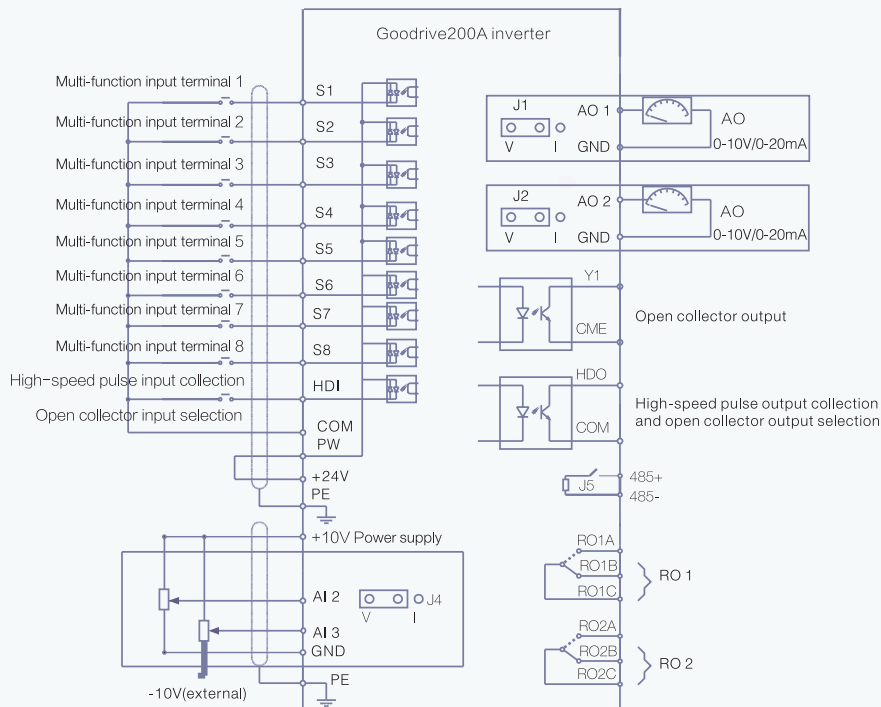
Fans and water pumps

Standard Wiring

Wiring diagram of control circuit



Wiring diagram of the control circuit



Installation Dimension Table

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

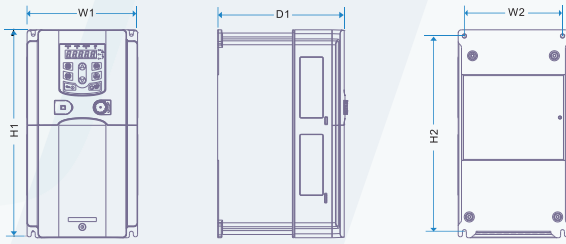
Installation dimension when floor mounting

Installation dimension (unit: mm)

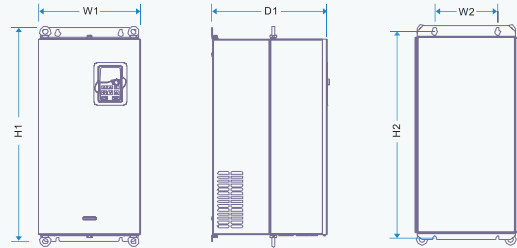
Inverter model	W1	W1	W3	W4	H1	H2	D1	D2	Installation holes
220kW~315W	750	230	714	680	1410	1390	380	150	13\12
350kW~500kW	620	230	553	-	1700	1678	560	240	22\12

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

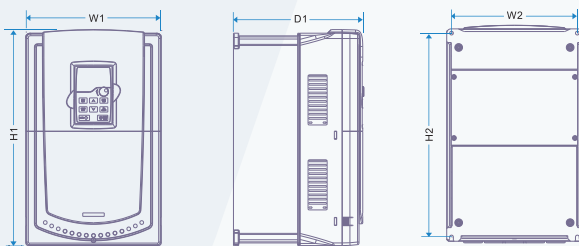
0.75-15kW Wall mounting Installation diagram



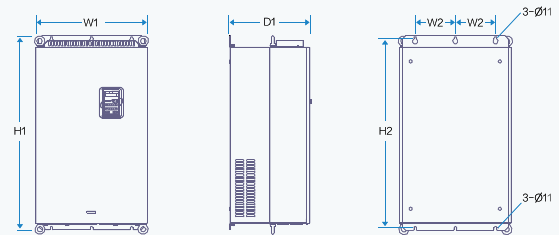
37-110kW Wall mounting Installation diagram



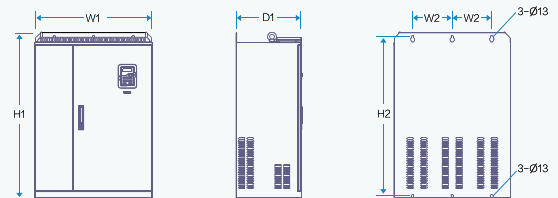
18.5-30kW Wall mounting Installation diagram



132-200kW Wall mounting Installation diagram

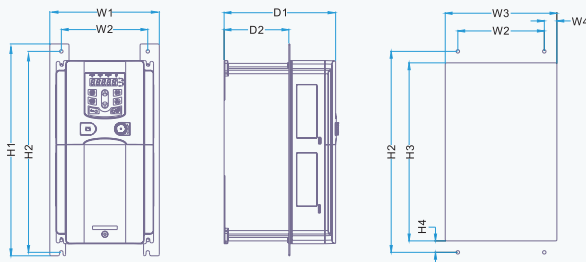


220-350kW Wall mounting Installation diagram

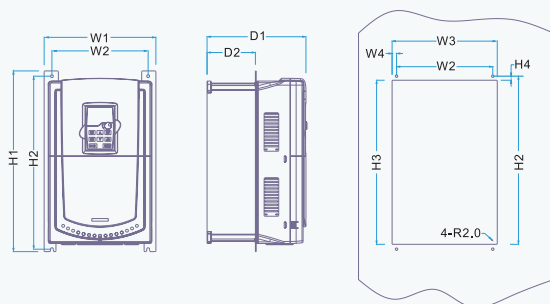


3-phase 220VAC Series Flange Mounting for 0.75-55kW Inverters

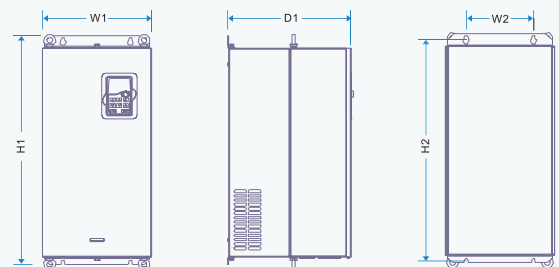
0.75-7.5kW Flange mounting installation diagram



11-15kW Flange mounting installation diagram



18-55kW Flange mounting installation diagram



Optional Parts

Flange Mounting Panel

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



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



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



Heat-releasing Hole

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



LCD keypad

10 rows of DH displaying
Compatible with the LED keypad



AC single-phase 220V input auxiliary power supply

For more convenient debugging

Filters

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

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