

Goodrive20-EU Series

General Purpose Vector Control Inverter

Your Trusted Industry Automation Solution Provider



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Industrial Automation: • Frequency Inverter • Servo & Motion Control • Motor & Electric Spindle • PLC
• HMI • Intelligent Elevator Control System • Traction Drive
Electric Power: • SVG • Solar Inverter • UPS • Online Energy Management System

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/ Introduction

Gooddrive20-EU is a general purpose vector control inverter with certified STO (Safe Torque OFF) function. It's oriented for OEM equipment markets, mainly covering the applications of water treatment, printing and packaging, winding equipment, paper machinery, shearing equipment, plastic machinery, food machinery, cable machinery, textile machinery, HVAC, etc.



Main Features

1. V/F and Sensorless Vector Control
2. External keypad for parameters copy
3. Common DC bus solution (400V; ≥4kw)
4. Starting torque up to 0.5Hz/150%
5. Built-in DC reactor for inverters ≥18.5kW
6. Built-in braking unit (standard ≤37kW, optional ≥45kW)
7. Standard C3 filter (≥4kW), optional C3 filter (≤2.2kW) and C2 Filter

Features

Mini design for inverters ($\leq 2.2\text{kW}$); side by side installation of multiple inverters, reducing installation space



Flexible installation ways

Inverters ($\leq 2.2\text{kW}$) support wall mounting and rail mounting.



Rail mounting

Inverters ($\geq 4\text{kW}$) support wall mounting and flange mounting.

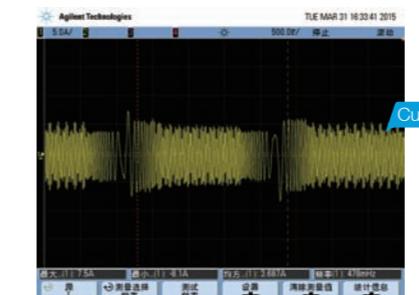


Wall mounting



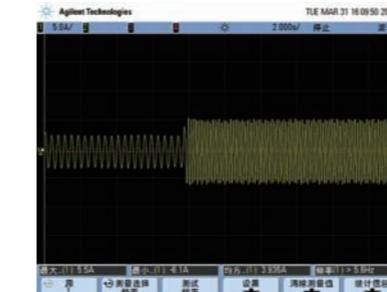
Excellent Performance

Excellent vector control performance

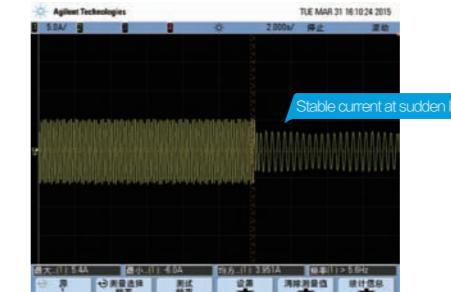


Current waveforms in vector control mode with 50Hz and full load

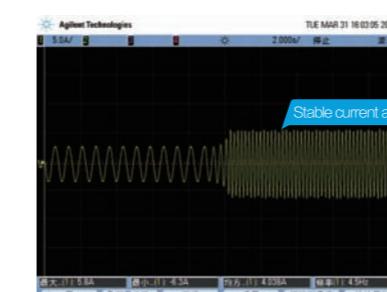
Excellent motor drive performance



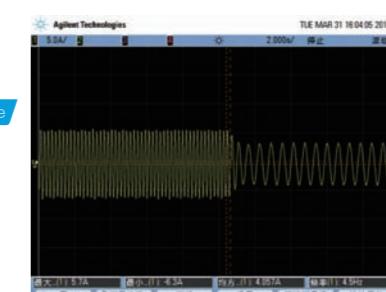
Current waveforms when sudden loading in V/F control mode with 2Hz and full load



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

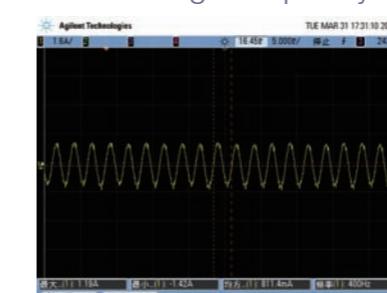


Current waveforms when sudden loading in vector control mode with 0.5Hz and full load

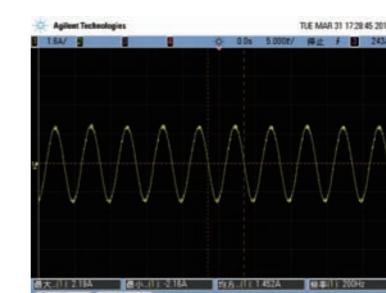


Current waveforms when sudden unloading in vector control mode with 0.5Hz and full load

Excellent high-frequency running performance



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

Multi-function and easy to use

Built-in DC reactor for inverter $\geq 18.5\text{kW}$

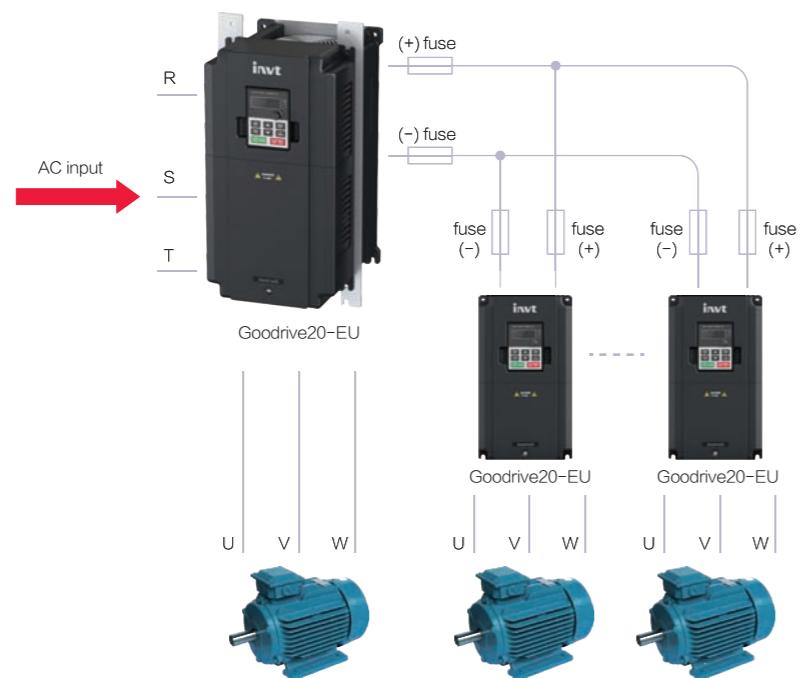


The braking unit is built-in and standard for inverters $\leq 37\text{kW}$ but optional for inverter of $45\text{-}110\text{kW}$.

| | | | |
|---------|--------------------|----------|--|
| Others | Embed for standard | | |
| GD20-EU | Embed for standard | Optional | |

0.4kW 15kW 45kW 110kW

Inverter ($400\text{V}; \geq 4\text{kW}$) support the Common DC bus solution.



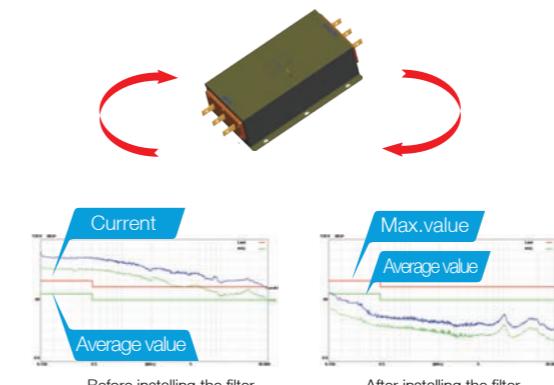
Built-in Safe Torque Off function

| Model | Certification standard and level | | |
|---|----------------------------------|----------------|-----------|
| | IEC 61508 | EN/ISO 13849-1 | EN954-1 |
| -S2:0.4~2.2kW -2:0.4~0.75kW -4:0.75~2.2kW | SIL2 | PLd | Category3 |
| -2:1.5~7.5kW -4:4~110kW | SIL3 | PLe | Category3 |

C3 and C2 filters

C3 filters are built in inverters (3PH; $400\text{V}; \geq 4\text{kW}$) and (3PH; $230\text{V}; \geq 1.5\text{kW}$) by using J10 to determine the connection or disconnection. External C3 filters can be configured for inverters (1PH; $230\text{V}; \leq 2.2\text{kW}$, (3PH; $400\text{V}; \leq 2.2\text{kW}$) and (3PH; $230\text{V}; \leq 0.75\text{kW}$).

External C2 filters are optional for all GD20-EU series inverters.



Conductive interference test of the power supply terminals

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 industrial environment.

External keypad

The membrane keypad are standard for inverters ($400\text{V}; \leq 2.2\text{kW}$), which also support external LED keypads. The keypads for inverters (3PH; $400\text{V}; \geq 4\text{kW}$) can be used as external keypads.

GD20-EU series inverters can be configured with LED keypad which has the data copy function to upload or download the parameters.



Pluggable design for cooling fans, easy maintenance



Abundant Software Functions

| Function | Used to | Remarks |
|--|---|--|
| RS485 communication | Read and modify inverter parameters through connection to the upper computer so as to control inverter running status. | Configured with RS485 communication interface |
| PID | Carry out PID operation on feedback signals to control inverter output frequency and improve target accuracy and stability. Applicable to pressure, flow and temperature process control. | Supports PID output polarity switching. |
| Motor parameter autotuning | Carry out rotation or static autotuning, improving control accuracy and response speed. | Classified into rotation autotuning and static autotuning. |
| Simple PLC function | Change the running frequency and direction automatically according to the running time set by simple PLC to meet process requirements. | Supports multiple running modes. |
| Multi-step speed control | Meet the speed control requirements in different periods of time. | A maximum of 16 steps can be divided for multi-step speed control. |
| Multiple V/F curve settings | Meet the requirements of energy-saving operation for fans and water pumps and of various variable frequency power supplies; adapt to different load applications. | Linear, multi-dot, multi-power and V/F separation settings, implementing flexible setting of V/F curves. |
| Virtual terminals | Take external signals as local virtual I/O to reduce hardware configuration. | Corresponding virtual terminal functions must be enabled in communication mode. |
| Delay of switching on and off | Provide more programming and control modes | Max. switching on/off delay is 50s |
| Uninterrupted running in instantaneous power off | Ensure uninterrupted running in instantaneous power off. Especially applicable to the situations with high requirements on continuous operation. | At transient voltage drop, the inverter can keep running by feedback energy without stop in valid time. |
| Various protection functions | Provide overall fault protection functions. | Various measures provided to protect against faults such as overcurrent, overvoltage, undervoltage, overheating, and overload, whose information can be saved. |
| Multiple braking modes available | Provide multiple braking modes, satisfying accurate and quick stop under different loads. | DC braking, flux braking, dynamic braking |
| Battery capacity display | Display the accumulative power consumption on the inverter without watt-hour meter. | Inverter power consumption can be queried. |

Perfect and Reliable Test System Ensure Products Adapt Complicated Site Environments and Achieved ACT Certificate of TÜV SÜD

| Experiment Type | Experiment Name | Classification |
|---|--|----------------|
| Mechanical Reliability Experiments | Package compression experiments | |
| | Package Resonance imaging and storage test | |
| | Package random vibration test | |
| | Package dropping test | |
| | Package rolling test | |
| | Package dumping test | |
| | Package inclined impact test | |
| | Half-sine shock test(working and non-working state) | |
| | Trapezoidal wave impulse test(non-working state) | |
| | Sinusoidal vibration test(working state) | |
| Impact Test | Sinusoidal vibration test(working state) | |
| | Random vibration test(working and non-working state) | |
| Climatic Environmental Reliability Test | Low temperature storage test | |
| | High temperature storage test | |
| | Low temperature working test | |
| | High temperature working test | |
| | Gradient temperature change test | |
| | Temperature impact test | |
| | Constant temperature & humidity test | |
| | Alternation temperature & humidity test | |
| | Salt Spray Test | |
| | Constant salt spray test | |
| Low Air Pressure Test | Alternation salt spray test | |
| | Combined dry heat & low air pressure test | |
| | Combined cold & low air pressure test | |

Remarks:

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&
Constant temperature and humidity
test chamber



Faster temperature chamber&
Thermal Shock Test Chamber

Applications

Textile machinery



Plastic machinery



Environmental protection equipment



Woodworking equipment



Air compressor



Food machinery



Printing and packaging



Ceramic equipment



Conveying equipment



Cable machinery



Technical specification

| | Function | Specification |
|---------------------------|--|---|
| Power Input | Input Voltage (V) | 1PH 220V (-15%)~240V(+10%) 3PH 220V(-15%)~240V(+10%) 3PH 380V (-15%)~440V(+10%) |
| | Input Current (A) | Refer to the rated value |
| | Input Frequency (Hz) | 50Hz or 60Hz, allowed range: 47~63Hz |
| Power Output | Output Motor Capacity (kW) | Refer to the rated value |
| | Output Current (A) | Refer to the rated value |
| | Output Voltage (V) | 0~input voltage, error<5% |
| | Output Frequency (Hz) | 0~400Hz |
| Technical Control Feature | Control Mode | SVPWM, SVC |
| | Adjustable-speed Ratio | 1:100 |
| | Speed Control Accuracy | ± 0.2% (SVC) |
| | Speed Fluctuation | ± 0.3% (SVC) |
| | Torque Response | <20ms (SVC) |
| | Torque Control Accuracy | 10% |
| | Starting Torque | 0.5Hz/150% (SVC) |
| Running Control Feature | Overload Capability | 150% of rated current: 1 minute 180% of rated current: 10 seconds 200% of rated current: 1 second |
| | Frequency Setting Method | Digital setting, analog setting, pulse frequency setting, multi-step speed running setting, simple PLC setting, PID setting, MODBUS communication setting Shift between the set combination and set channel. |
| | Auto-adjustment of the Voltage | Keep a stable voltage automatically when the grid voltage transients |
| Peripheral Interface | Fault Protection | Provide comprehensive fault protection functions: over-current, over-voltage, under-voltage, over-heating, phase loss and overload, etc. |
| | Analog Input | 1 (AI2) 0~10V/0~20mA and 1 (AI3) -10~10V |
| | Analog Output | 2 (AO1, AO2) 0~10V/0~20mA (Only 1 AO for inverters ≤2.2kW) |
| | Digital Input | 4 common inputs, the Max. frequency: 1kHz; 1 high speed input, the Max. frequency: 50kHz |
| | Digital Output | 1 Y1 terminal output; |
| Others | Relay Output | 2 programmable relay outputs(Only 1 Relay output for inverters ≤2.2kW) R01A NO, R01B NC, R01C common terminal R02A NO, R02B NC, R02C common terminal Contactor capacity: 3A/AC250V |
| | Mountable Method | Wall and rail mountable |
| | Braking Unit | ≤37kW Standard built-in, 45~110kW Optional built-in (model "B") |
| | EMI Filter | Optional filter: meet the degree requirement of IEC61800-3 C2, IEC61800-3 C3 |
| | Temperature of the Running Environment | -10~50°C Above 40°C, derate 1% for every additional 1°C. |
| | Altitude | <1000m Above 1000m, derate 1% for every additional 100m. |
| | Protective Degree | IP20 |
| Safety | | Meet the requirement of CE |
| | Cooling | Fan cooling |

Selection

Type designation key

GD20-055G-4-B-EU

① ② ③ ④ ⑤

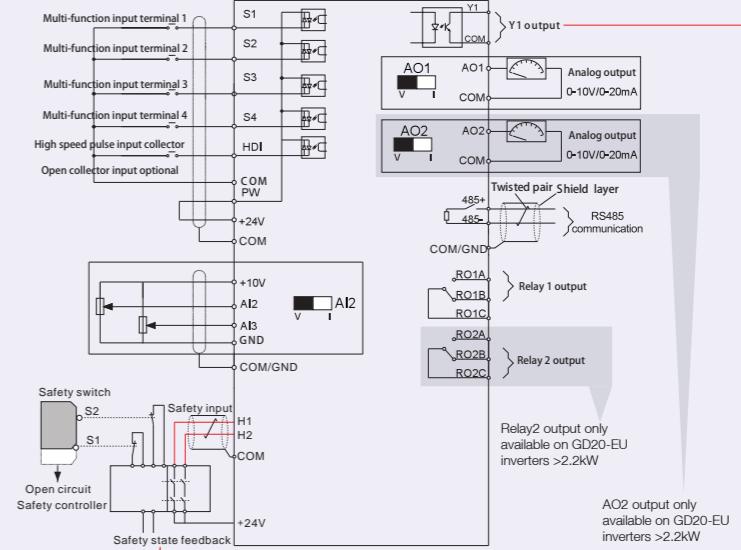
| Key | No. | Detailed description | Detailed content |
|--------------------------|-----|-----------------------|--|
| Abbreviation | ① | Product abbreviation | GD20-EU is short for Gooddrive20-EU |
| Rated power | ② | Power range+load type | 055-55kW G: constant torque load |
| Voltage degree | ③ | Voltage degree | S2: AC 1PH 220V(-15%)-240V(+10%) 2: AC 3PH 220V(-15%)-240V(+10%) 4: AC 3PH 380V(-15%)-440V(+10%) |
| Additional information 1 | ④ | Braking unit | B: For inverter $\geq 45\text{kW}$ and With "B" assigned, means built-in braking unit. |
| Additional information 2 | ⑤ | Special function | EU: built-in Safe Torque Off function; Without EU, without the function |

Rated parameters

| Model | Voltage degree | Output power (kW) | Input current (A) | Output current (A) | STO function |
|------------------|----------------|-------------------|-------------------|--------------------|-------------------------|
| GD20-0R4G-S2-EU | 1PH 230V | 0.4 | 6.5 | 2.5 | Class SIL2 PLd CAT.3 |
| GD20-0R7G-S2-EU | | 0.75 | 9.3 | 4.2 | |
| GD20-1R5G-S2-EU | | 1.5 | 15.7 | 7.5 | |
| GD20-2R2G-S2-EU | | 2.2 | 24 | 10 | |
| GD20-0R4G-2-EU | 3PH 230V | 0.4 | 3.7 | 2.5 | Class SIL3 PLe CAT.3 |
| GD20-0R7G-2-EU | | 0.75 | 5 | 4.2 | |
| GD20-1R5G-2-EU | | 1.5 | 7.7 | 7.5 | |
| GD20-2R2G-2-EU | | 2.2 | 11 | 10 | |
| GD20-004G-2-EU | | 4 | 17 | 16 | |
| GD20-5R5G-2-EU | | 5.5 | 21 | 20 | |
| GD20-7R5G-2-EU | | 7.5 | 31 | 30 | |
| GD20-0R7G-4-EU | 3PH 400V | 0.75 | 3.4 | 2.5 | Class SIL2 PLd CAT.3 |
| GD20-1R5G-4-EU | | 1.5 | 5.0 | 4.2 | |
| GD20-2R2G-4-EU | | 2.2 | 5.8 | 5.5 | |
| GD20-004G-4-EU | | 4 | 13.5 | 9.5 | |
| GD20-5R5G-4-EU | | 5.5 | 19.5 | 14 | |
| GD20-7R5G-4-EU | | 7.5 | 25 | 18.5 | |
| GD20-011G-4-EU | | 11 | 32 | 25 | |
| GD20-015G-4-EU | | 15 | 40 | 32 | |
| GD20-018G-4-EU | | 18.5 | 47 | 38 | |
| GD20-022G-4-EU | | 22 | 51 | 45 | |
| GD20-030G-4-EU | | 30 | 70 | 60 | Class SIL3 PLe CAT.3 |
| GD20-037G-4-EU | | 37 | 80 | 75 | |
| GD20-045G-4-EU | | 45 | 98 | 92 | |
| GD20-045G-4-B-EU | | 45 | 98 | 92 | |
| GD20-055G-4-EU | | 55 | 128 | 115 | |
| GD20-055G-4-B-EU | | 55 | 128 | 115 | |
| GD20-075G-4-EU | | 75 | 139 | 150 | |
| GD20-075G-4-B-EU | | 75 | 139 | 150 | |
| GD20-090G-4-EU | | 90 | 168 | 180 | |
| GD20-090G-4-B-EU | | 90 | 168 | 180 | |
| GD20-110G-4-EU | | 110 | 201 | 215 | Class SIL3 PLe CAT.3 |
| GD20-110G-4-B-EU | | 110 | 201 | 215 | |

Standard wiring

Wiring diagram of control circuit



Logic table for STO function

Input states and corresponding faults of STO function:

| STO input state | Corresponding STO fault |
|---------------------------------|--|
| H1, H2 opens simultaneously | Trigger STO function, the drive can't operate normally |
| H1, H2 closes simultaneously | Don't trigger STO function, the drive can operate normally |
| Either H1 or H2 opens or closes | Trigger STL1/STL2/STL3 fault, fault code: 38: Safety circuit of channel 1 is abnormal (STL1) 39: Safety circuit of channel 2 is abnormal (STL2) 40: Internal circuit is abnormal (STL3) |

Control terminal diagram



Fig 1 Connection terminal diagram for inverters $\leq 2.2\text{kW}$

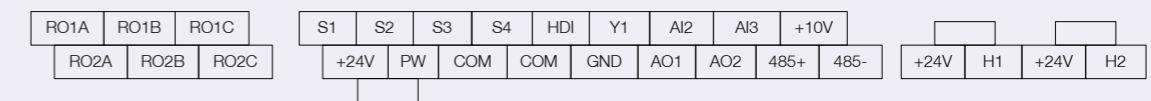
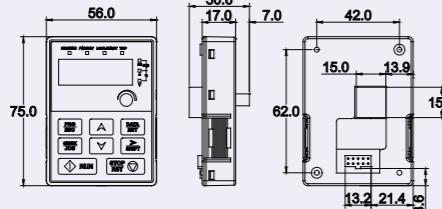


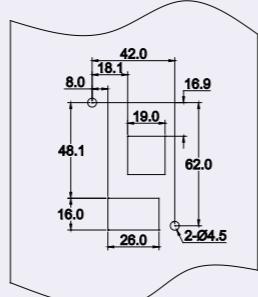
Fig 2 Connection terminal diagram for inverters $\geq 4\text{kW}$

/ Installation dimension

External keypad dimension

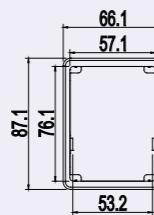


Overall drawing

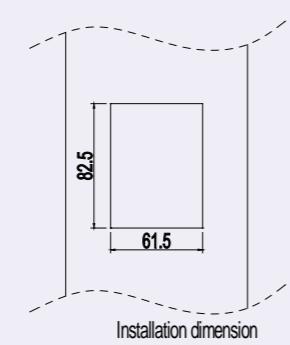


Hole drawing

Note: The external keypad can be 20 meters away from the inverter at most.



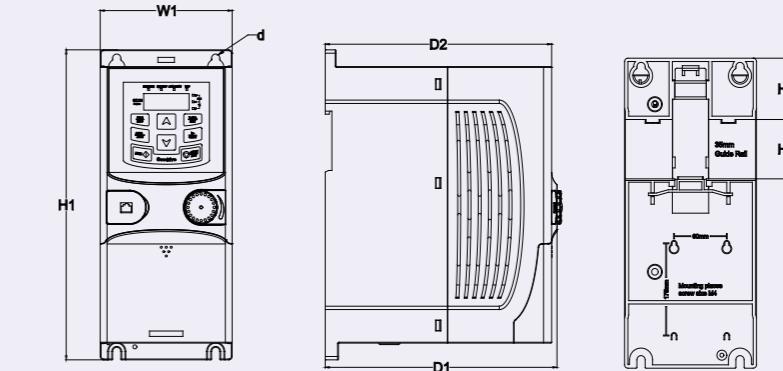
Installation bracket



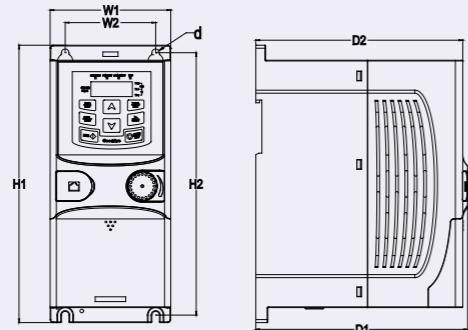
Installation dimension

Dimension (unit: mm)

| Model | W1 | W2 | H1 | H2 | D1 | D2 | Hole (d) |
|-----------------|------|------|-------|-------|-------|-------|----------|
| GD20-0R4G-S2-EU | 80.0 | 60.0 | 160.0 | 150.0 | 123.5 | 120.3 | 5 |
| GD20-0R7G-S2-EU | 80.0 | 60.0 | 160.0 | 150.0 | 123.5 | 120.3 | 5 |
| GD20-1R5G-S2-EU | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |
| GD20-2R2G-S2-EU | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |
| GD20-0R4G-2-EU | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |
| GD20-0R7G-2-EU | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |
| GD20-0R7G-4-EU | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |
| GD20-1R5G-4-EU | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |
| GD20-2R2G-4-EU | 80.0 | 60.0 | 185.0 | 175.0 | 140.5 | 137.3 | 5 |

Rail mounting of inverters of 1PH 230V/3PH 380V ($\leq 2.2\text{kW}$) and 3PH 230V ($\leq 0.75\text{kW}$)

Inverter dimension



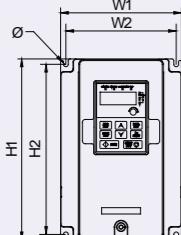
Wall mounting of 0.75~2.2kW inverters

Dimension (unit: mm)

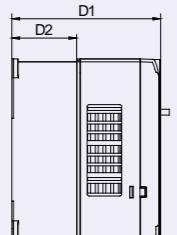
| Model | W1 | W2 | H1 | H2 | D1 | D2 | Hole (d) |
|-----------------|------|-------|------|------|-------|-------|----------|
| GD20-0R4G-S2-EU | 80.0 | 160.0 | 35.4 | 36.6 | 123.5 | 120.3 | 5 |
| GD20-0R7G-S2-EU | 80.0 | 160.0 | 35.4 | 36.6 | 123.5 | 120.3 | 5 |
| GD20-1R5G-S2-EU | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |
| GD20-2R2G-S2-EU | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |
| GD20-0R4G-2-EU | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |
| GD20-0R7G-2-EU | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |
| GD20-0R7G-4-EU | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |
| GD20-1R5G-4-EU | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |
| GD20-2R2G-4-EU | 80.0 | 185.0 | 35.4 | 36.6 | 140.5 | 137.3 | 5 |

/ Installation dimension

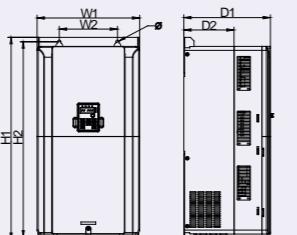
Inverter dimension



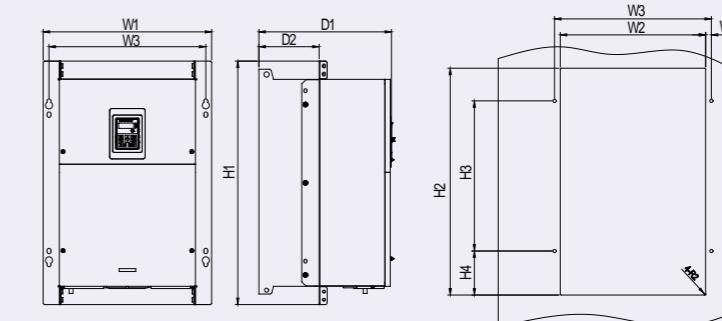
Wall mounting of 3PH 400V 4-37kW and 3PH 230V 1.5-7.5 kW inverters



Wall mounting of 3PH 400V 45-75kW inverters



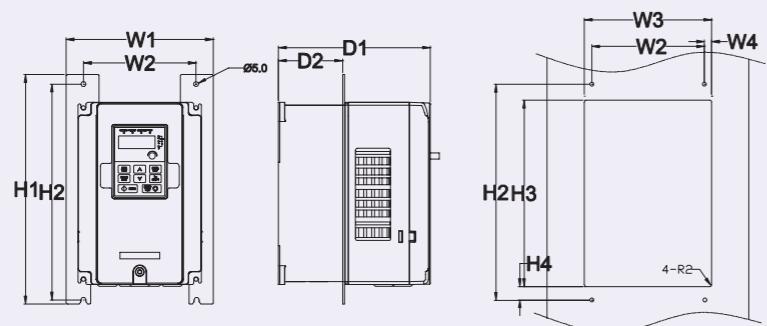
Wall mounting of 3PH 400V 90-110kW inverters



Flange mounting of 3PH 400V 90-110kW inverters

Dimension (unit: mm)

| Model | W1 | W2 | W3 | H1 | H2 | D1 | D2 | Hole (d) |
|----------------|-------|-------|-------|-------|-------|-------|-------|----------|
| GD20-1R5G-2-EU | 146.0 | 131.0 | — | 256.0 | 243.5 | 167.0 | 84.5 | 6 |
| GD20-2R2G-2-EU | 146.0 | 131.0 | — | 256.0 | 243.5 | 167.0 | 84.5 | 6 |
| GD20-004G-2-EU | 146.0 | 131.0 | — | 256.0 | 243.5 | 167.0 | 84.5 | 6 |
| GD20-5R5G-2-EU | 170.0 | 151.0 | — | 320.0 | 303.5 | 196.3 | 113.0 | 6 |
| GD20-7R5G-2-EU | 170.0 | 151.0 | — | 320.0 | 303.5 | 196.3 | 113.0 | 6 |
| GD20-004G-4-EU | 146.0 | 131.0 | — | 256.0 | 243.5 | 167.0 | 84.5 | 6 |
| GD20-5R5G-4-EU | 146.0 | 131.0 | — | 256.0 | 243.5 | 167.0 | 84.5 | 6 |
| GD20-7R5G-4-EU | 170.0 | 151.0 | — | 320.0 | 303.5 | 196.3 | 113.0 | 6 |
| GD20-011G-4-EU | 170.0 | 151.0 | — | 320.0 | 303.5 | 196.3 | 113.0 | 6 |
| GD20-015G-4-EU | 170.0 | 151.0 | — | 320.0 | 303.5 | 196.3 | 113.0 | 6 |
| GD20-018G-4-EU | 200.0 | 185.0 | — | 340.6 | 328.6 | 184.3 | 104.5 | 6 |
| GD20-022G-4-EU | 200.0 | 185.0 | — | 340.6 | 328.6 | 184.3 | 104.5 | 6 |
| GD20-030G-4-EU | 250.0 | 230.0 | — | 400.0 | 380.0 | 202.0 | 123.5 | 6 |
| GD20-037G-4-EU | 250.0 | 230.0 | — | 400.0 | 380.0 | 202.0 | 123.5 | 6 |
| GD20-045G-4-EU | 282.0 | 160.0 | 226.0 | 560.0 | 542.0 | 238.0 | 138.0 | 9 |
| GD20-055G-4-EU | 282.0 | 160.0 | 226.0 | 560.0 | 542.0 | 238.0 | 138.0 | 9 |
| GD20-075G-4-EU | 282.0 | 160.0 | 226.0 | 560.0 | 542.0 | 238.0 | 138.0 | 9 |
| GD20-090G-4-EU | 338.0 | 200.0 | — | 554.0 | 535.0 | 329.2 | — | 9.5 |
| GD20-110G-4-EU | 338.0 | 200.0 | — | 554.0 | 535.0 | 329.2 | — | 9.5 |



Flange mounting of 3PH 400V 4-75kW and 3PH 230V 1.5-7.5kW inverters

Dimension (unit: mm)

| Model | W1 | W2 | W3 | W4 | H1 | H2 | H3 | H4 | D1 | D2 | Hole (d) | Nut |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| GD20-1R5G-2-EU | 170.2 | 131 | 150 | 9.5 | 292 | 276 | 260 | 6 | 167 | 84.5 | 6 | M5 |
| GD20-2R2G-2-EU | 170.2 | 131 | 150 | 9.5 | 292 | 276 | 260 | 6 | 167 | 84.5 | 6 | M5 |
| GD20-004G-2-EU | 170.2 | 131 | 150 | 9.5 | 292 | 276 | 260 | 6 | 167 | 84.5 | 6 | M5 |
| GD20-5R5G-2-EU | 191.2 | 151 | 174 | 11.5 | 370 | 351 | 324 | 12 | 196.3 | 113 | 6 | M5 |
| GD20-7R5G-2-EU | 191.2 | 151 | 174 | 11.5 | 370 | 351 | 324 | 12 | 196.3 | 113 | 6 | M5 |
| GD20-004G-4-EU | 170.2 | 131 | 150 | 9.5 | 292 | 276 | 260 | 6 | 167 | 84.5 | 6 | M5 |
| GD20-5R5G-4-EU | 170.2 | 131 | 150 | 9.5 | 292 | 276 | 260 | 6 | 167 | 84.5 | 6 | M5 |
| GD20-7R5G-4-EU | 191.2 | 151 | 174 | 11.5 | 370 | 351 | 324 | 12 | 196.3 | 113 | 6 | M5 |
| GD20-011G-4-EU | 191.2 | 151 | 174 | 11.5 | 370 | 351 | 324 | 12 | 196.3 | 113 | 6 | M5 |
| GD20-015G-4-EU | 191.2 | 151 | 174 | 11.5 | 370 | 351 | 324 | 12 | 196.3 | 113 | 6 | M5 |
| GD20-018G-4-EU | 266 | 250 | 224 | 13 | 371 | 250 | 350.6 | 20.3 | 184.6 | 104 | 6 | M5 |
| GD20-022G-4-EU | 266 | 250 | 224 | 13 | 371 | 250 | 350.6 | 20.3 | 184.6 | 104 | 6 | M5 |
| GD20-030G-4-EU | 316 | 300 | 274 | 13 | 430 | 300 | 410 | 55 | 202 | 118.3 | 6 | M5 |
| GD20-037G-4-EU | 316 | 300 | 274 | 13 | 430 | 300 | 410 | 55 | 202 | 118.3 | 6 | M5 |
| GD20-045G-4-EU | 352 | 332 | 306 | 13 | 580 | 400 | 570 | 80 | 238 | 133.8 | 9 | M8 |
| GD20-055G-4-EU | 352 | 332 | 306 | 13 | 580 | 400 | 570 | 80 | 238 | 133.8 | 9 | M8 |
| GD20-075G-4-EU | 352 | 332 | 306 | 13 | 580 | 400 | 570 | 80 | 238 | 133.8 | 9 | M8 |
| GD20-090G-4-EU | 418.5 | 361 | 389.5 | 14.2 | 600 | 559 | 370 | 108.5 | 329.5 | 149.5 | 9.5 | M8 |
| GD20-110G-4-EU | 418.5 | 361 | 389.5 | 14.2 | 600 | 559 | 370 | 108.5 | 329.5 | 149.5 | 9.5 | M8 |
| GD20-022G-4-EU | 200.0 | 185.0 | — | 340.6 | 328.6 | 184.3 | 184.3 | 104.5 | 184.3 | 104.5 | 6 | 184.3 |
| GD20-030G-4-EU | 250.0 | 230.0 | — | 400.0 | 380.0 | 202.0 | 202.0 | 123.5 | 202.0 | 123.5 | 6 | 202.0 |
| GD20-037G-4-EU | 250.0 | 230.0 | — | 400.0 | 380.0 | 202.0 | 202.0 | 123.5 | 202.0 | 123.5 | 6 | 202.0 |
| GD20-045G-4-EU | 282.0 | 160.0 | 226.0 | 560.0 | 542.0 | 238.0 | 238.0 | 138.0 | 238.0 | 138.0 | 9 | 238.0 |
| GD20-055G-4-EU | 282.0 | 160.0 | 226.0 | 560.0 | 542.0 | 238.0 | 238.0 | 138.0 | 238.0 | 138.0 | 9 | 238.0 |
| GD20-075G-4-EU | 282.0 | 160.0 | 226.0 | 560.0 | 542.0 | 238.0 | 238.0 | 138.0 | 238.0 | 138.0 | 9 | 238.0 |
| GD20-090G-4-EU | 338.0 | 200.0 | — | 554.0 | 535.0 | 329.2 | 329.2 | — | 329.2 | — | 9.5 | 329.2 |
| GD20-110G-4-EU | 338.0 | 200.0 | — | 554.0 | 535.0 | 329.2 | 329.2 | — | 329.2 | — | 9.5 | 329.2 |

Note: In flange installation mode, the installation bracket is optional

/ Optional parts

External LED keypad

Including the external keypads with or without the parameter copying function.



parameter copying

Reactor

Input reactor: Improve the power factor of the input side of the inverter and control the higher harmonic current.

Output reactor: Prolong the effective transmitting distance of the inverter and control the sudden high voltage when switching on/off the IGBT of the inverter.



Filter

Input filter: Control the electromagnetic interference generated from the inverter, please install close to the input terminal side of the inverter.

Output filter: Control the interference from the output side of the inverter, please install close to the output terminals of the inverter.



Membrane of heat releasing holes at the side

Apply to severe environment and improve protective effect.

Derate 10% of the machine.



Keypad Bracket

Use it to install the keypad on the front of cabinet

