

2.1.4 Installation confirmation

Check as followings after the installation:

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|---|
| 1. Check that the load range of the input and output cables meet the need of actual load. |
| 2. Check that the accessories of the inverter are correctly and properly installed. The installation cables should meet the needs of every component (including reactors, input filters, output reactors, output filters, DC reactors and braking resistors). |
| 3. Check that the inverter is installed on non-flammable materials and the calorific accessories (reactors and brake resistors) are away from flammable materials. |
| 4. Check that all control cables and power cables are run separately and the routation complies with EMC requirement. |
| 5. Check that all grounding systems are properly grounded according to the requirements of the inverter. |
| 6. Check that the free space during installation is sufficient according to the instructions in user's manual. |
| 7. Check that the installation conforms to the instructions in user's manual. The drive must be installed in an upright position. |
| 8. Check that the external connection terminals are tightly fastened and the torque is appropriate. |
| 9. Check that there are no screws, cables and other conductive items left in the inverter. If not, get them out. |

2.1.5 Basic commissioning

Complete the basic commissioning as followings before actual utilization:

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| 1. Autotune. If possible, de-coupled from the motor load to start dynamic autotune. Or if not, static autotune is available. |
| 2. Adjust the ACC/DEC time according to the actual running of the load. |
| 3. Commission the device via jogging and check that the rotation direction is as required. If not, change the rotation direction by changing the wiring of motor. |
| 4. Set all control parameters and then operate. |

2.2 Product specification

| Function | | Specification |
|-------------------|--------------------------|--|
| Power input | Input voltage (V) | Single-phase 220(-15%)~240(+10%) Three-phase 220(-15%)~240(+10%) Three-phase 380(-15%)~440(+10%) |
| | Input current (A) | Refer to 2.5 |
| | Input frequency (Hz) | 50Hz or 60Hz Allowed range: 47~63Hz |
| Power output | Output voltage (V) | =the input voltage (error<5%) |
| | Output current (A) | Refer to 2.5 |
| | Output power (kW) | Refer to 2.5 |
| | Output frequency (Hz) | 50Hz/60Hz, fluctuation:±5% |
| Technical control | Control mode | V/F |
| | Maximum output frequency | 400Hz |

| Function | | Specification |
|-----------------|--|---|
| | Adjustable-speed ratio | 1:100 |
| | Overload capability | 150% of rated current: 1 minute 180% of rated current: 10 seconds 200% of rated current: 1 second |
| Running control | Key functions | Stop mode and anti-overtemperature of the bus |
| | Temperature measurement accuracy | Overtemperature point $\pm 3^{\circ}$ |
| | Terminal switch input resolution | $\leq 2\text{ms}$ |
| | Terminal analog input resolution | $\leq 20\text{mV}$ |
| | Analog input | 1 input 0~10V/0~20mA |
| | Analog output | 1 input 0~10V/0~20mA |
| | Digital input | 5 common input |
| | Digital output | 1 Y output (commonly used with digital output) and 1 rogrammable relay output |
| | Communication | 485 communication |
| | Frequency setting | Digital setting, analog setting, multi-step speed setting, PID setting, MODBUS communication setting and so on Switch between different settings |
| | Automatic voltage adjustment | Keep output voltage stable when the grid voltage changes |
| | Fault protection | More than 10 fault protections |
| Others | Mountable method | Wall mountable |
| | Temperature of the running environment | -10~50 $^{\circ}$, derate above 40 $^{\circ}$ |
| | Cooling | Single/three-phase 220V 0.2-0.75kW natural cooling Single/three-phase 220V 1.5-2.2kW, three-phase 380V 0.75-2.2kW |
| | Braking unit | Embedded |
| | DC reactor | Not optional |
| | Braking resistor | Optional and external |
| | EMC filter | C2 filter |

2.3 Name plate

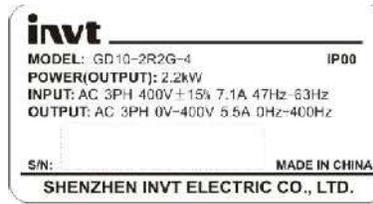


Fig 2-1 Name plate

2.4 Type designation key

The type designation contains information on the inverter. The user can find the type designation on the type designation label attached to the inverter or the simple name plate.

GD10 - 2R2G - 4 - B

① ② ③ ④

Fig 2-2 Product type

| Field identification | Sign | Detailed description of the sign | Detailed content |
|----------------------|------|----------------------------------|---|
| Abbreviation | □ | Product abbreviation | Goodrive10 is shorted for GD10. |
| Rated power | □ | Power range + Load type | 2R2-2.2kW G—Constant torque load |
| Voltage degree | □ | Voltage degree | 4: 380(-15%)~440(+10%) 2: 220(-15%)~240(+10%) S2: 220(-15%)~240(+10%) |
| Lot No. | ④ | Lot No. | B: standard braking unit |

2.5 Rated specifications

| | Model | Output power(kW) | Input current(A) | Output current (A) |
|----------------------|----------------|------------------|------------------|--------------------|
| Single-phase 220V | GD10-0R2G-S2-B | 0.2 | 4.9 | 1.6 |
| | GD10-0R4G-S2-B | 0.4 | 6.5 | 2.5 |
| | GD10-0R7G-S2-B | 0.75 | 9.3 | 4.2 |
| | GD10-1R5G-S2-B | 1.5 | 15.7 | 7.5 |
| | GD10-2R2G-S2-B | 2.2 | 24 | 10 |
| Three-phase 220V | GD10-0R2G-2-B | 0.2 | 1.9 | 1.6 |
| | GD10-0R4G-2-B | 0.4 | 2.7 | 2.5 |
| | GD10-0R7G-2-B | 0.75 | 4.9 | 4.2 |
| | GD10-1R5G-2-B | 1.5 | 9.0 | 7.5 |
| | GD10-2R2G-2-B | 2.2 | 15 | 10 |