

2.1.4 Installation confirmation

Check as followings after the installation:

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 rotation 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:

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
	Output voltage (V)	=the input voltage (error<5%)
Power output	Output current (A)	Refer to 2.5
	Output power (kW)	Refer to 2.5
	Output frequency (Hz)	50Hz/60Hz, fluctuation:±5%
	Control mode	V/F
Technical control	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 $\pm 3^{\circ}\text{C}$
	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 programmable 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	$-10\sim 50^{\circ}\text{C}$, derate above 40°C
	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

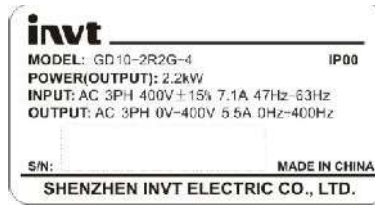


Fig 2-1 Name plate

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