

3.3 Product specification

Function description		Specification
Power input	Input voltage (V)	-4 model: 3PH 380V (-15%)–440V (+10%)
	Input current (A)	Refer to <i>Rated value</i>
	Input frequency (Hz)	50Hz or 60Hz, allowable range: 47–63Hz
Power output	Output voltage (V)	0–input voltage
	Output current (A)	Refer to Rated value
	Output power (kW)	Refer to Rated value
	Output frequency (Hz)	0–400Hz
Technical control performance	Control mode	SVPWM control, SVC, VC
	Motor type	Asynchronous motor, permanent-magnet synchronous motor
	Speed regulation ratio	Asynchronous motor 1: 200 (SVC); Synchronous motor 1: 20 (SVC) , 1:1000 (VC)
	Speed control precision	±0.2% (SVC), ±0.02% (VC)
	Speed fluctuation	± 0.3% (SVC)
	Torque response	<20ms SVC) , <10ms (VC)
	Torque control precision	10% (SVC) , 5% (VC)
	Starting torque	Asynchronous motor: 0.25Hz/150% (SVC) Synchronous motor: 2.5 Hz/150% (SVC) 0Hz/200% (VC)
Overload capacity	G type: 150% of rated current: 1min; 180% of rated current: 10s; 200% of rated current: 1s; P type: 120% of rated current: 1min;	
Running control performance	Frequency setup mode	Digital, analog, pulse frequency, multi-step speed running, simple PLC, PID, MODBUS communication, PROFIBUS communication, etc; Realize switch-over between the set combination and the set channel
	Automatic voltage regulation function	Keep the output voltage constant when grid voltage changes
	Fault protection function	Fault protection function Provide over 30 kinds of fault protection functions: overcurrent, overvoltage, undervoltage, over-temperature, phase loss and overload, etc
	Speed tracking restart function	Realize impact-free starting of the motor in rotating Note: This function is available for 004G/5R5G and above

Function description		Specification
		models
Peripheral interface	Terminal analog input resolution	No more than 20mV
	Terminal digital input resolution	No more than 2ms
	Analog input	2 inputs, AI1: 0–10V/0–20mA; AI2: -10–10V
	Analog output	1 output, AO1: 0–10V /0–20mA
	Digital input	Four regular inputs; max. frequency: 1kHz; internal impedance: 3.3kΩ Two high-speed inputs; max. frequency: 50kHz; supports quadrature encoder input; with speed measurement function
	Digital output	One high-speed pulse output; max. frequency: 50kHz One Y terminal open collector output
	Relay output	Two programmable relay outputs RO1A NO, RO1B NC, RO1C common port RO2A NO, RO2B NC, RO2C common port Contact capacity: 3A/AC250V, 1A/DC30V
	Extension interface	Three extension interfaces: SLOT1, SLOT2, SLOT3 Expandable PG card, programmable extension card, communication card, I/O card, etc
Others	Installation mode	Support wall-mounting and flange-mounting
	Operation ambient temperature	-10–50°C Derating is required if the ambient temperature exceeds 40°C
	Ingress protection rating	IP54
	Cooling mode	Forced-air cooling
	Brake unit	Optional
	EMC filter	Conducted emissions of all 380V models meet the requirements of C3 in the IEC/EN 61800-3 standard. External filter is optional: Conducted emission can meet the requirements of C2 in the IEC/EN 61800-3 standard. Note: It is required to observe the EMC compliance required by the appendix of the manual. The motor and motor cables shall be selected based on technical requirements specified in the appendix of the manual.
	STO certification level	Meet the SIL2 level

3.4 Product nameplate

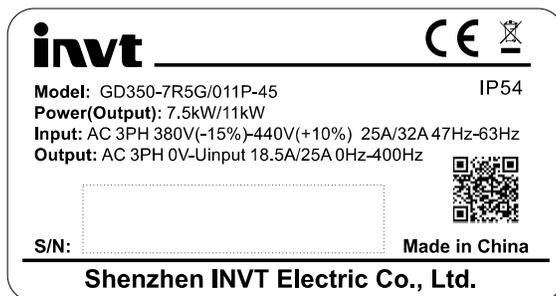


Fig 3.3 Product nameplate

Note:

1. This is an example of the nameplate of standard Goodrive350 IP54 products. The CE/TUV/IP54 marking on the top right will be marked according to actual certification conditions.
2. Scan the QR code on the bottom right to download mobile APP and operation manual.

3.5 Type designation key

The type designation key contains product information. Users can find the type designation key on the nameplate and simple nameplate of the inverter.

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Fig 3.4 Type designation key

Field	Sign	Description	Contents
Product Category	①	Abbreviation of product series	GD350: Goodrive350 high-performance multi-function inverter
Rated power	②	Power range + load type	022/030: 22kW G—Constant torque load P—Fan and water pump
Voltage level	③	Voltage level	4: AC 3PH 380V (-15%)–440V (+10%) Rated voltage: 380V
Ingress protection rating	④	Ingress protection rating	5: IP54 ingress protection rating (It is impossible to completely prevent dust from entering, but the amount of dust from entering will not cause damage to the equipment; it will not cause damage when the product is immersed in water from each direction).
Note: Built-in brake unit is included in standard configuration of 022G/030P and lower models.			