IO extension Card	Programmable extension card	Bluetooth communication card	CANopen communication card
EC-IO501-00	EC-PC501-00	EC-TX501	EX-TX504
PROFIBUS-DP Communication card	Multi-function incremental PG card	UVW incremental PG card	Resolver PG card
EC-TX503	EC-PG505-12	EC-PG503-05	EC-PG504-00

### Goodrive350 IP54



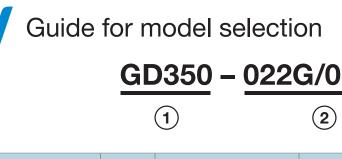
# Product Introduction

GD350 IP54 series inverters are the latest brunches of the GD350 series. They provide the same control methods and extended functions as GD350 inverters. Some models can be configured with optional built-in DC reactors as required by customers. The full-sheet metal structure is adopted, supporting wall-mounting and flange installation. LCD keypads are the standard configuration. They are especially applicable in scenarios with harsh dust and water vapor conditions, such as those with HVAC, fans and pumps, stone, and wood.

# Features

1. Ingress protection rating of IP54, applicable to working environments with harsh dust and water vapor conditions (Same as 3S in NAME)

- 2. Supporting both heavy and light loads, integrated G and P types
- 3. Reserving interfaces for implementing the real-time clock function
- 4. Supporting optional built-in DC reactors (30-110 kW)
- 5. Built-in brake resistors (4–37 kW)



Field	Sign	Description	Contents
Abbreviation of product series	1	Abbreviation of product series	GD350: Goodrive350 high-performance multi-function inverte
Rated power	2	Power range + Load type	022: 22kW G—Constant torque load P—Special for fans and pumps
Voltage level	3	Voltage level	4: AC 3PH 380V(-15%)-440V(+10%)
IP level	4	IP level	5: IP54

## Product specification

Function	on description	Specification
	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)
Technical control performance	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	150% of rated current: 1min;180% of rated current: 10s;200% of rated current: 1s

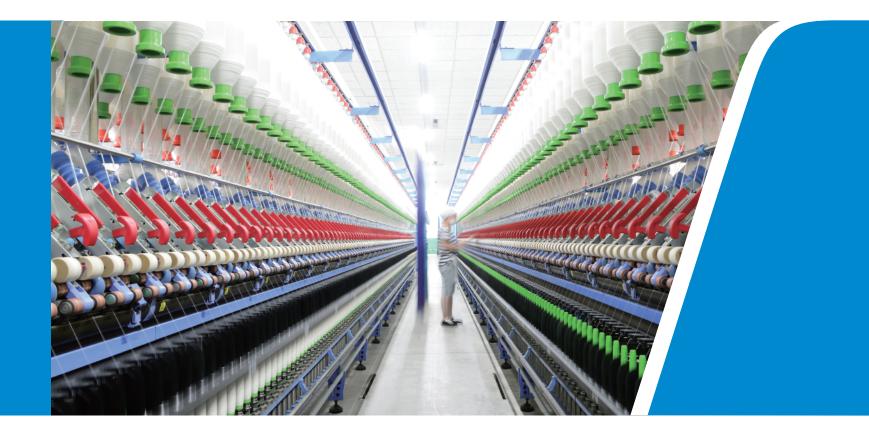
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Function description		Specification	
	Frequency setup mode	Digital, analog, pulse frequency, multi-step speed running, simple PLC, PID, MODBUS communication, PROFIBUS communication, etc.; Realize switch-over between the set combination and the set channel	
Running control performance	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 4kW and above models	
	Terminal analog input resolution	No more than 20mV	
	Terminal digital input resolution	No more than 2ms	
	Analog input	2 inputs, Al1: 0–10V/0–20mA; Al2: -10–10V	
Peripheral	Analog output	1 output, AO1: 0–10V /0–20mA	
interface	Digital input	Four regular inputs; max. frequency: 1kHz; internal impedance: $3.3k\Omega$ 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	
	Installation mode	Support wall-mounting and flange-mounting	
	Temperature of running environment	-10-50°C, derating is required if the ambient temperature exceeds 40°C	
	Protection level	IP54(3S in NAME)	
Others	Pollution level	Level 3	
	Cooling mode	Air cooling	
	Brake unit	Built-in brake unit for 380V 4kW-37kW	
	DC reactor	Bulit-in options in 30kW-110kW	
	EMC filter	380V models fulfill the requirements of IEC61800-3 C3 Optional external filter should meet the requirements of IEC61800-3 C2	



## **Goodrive350 Series**

High-performance Multi-function Inverter



Your trusted industry automation solution provider

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