

## **LOW INVERTER**

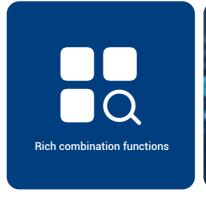
# **VOLTAGE**

### **♦ Products features**





















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The FD100 series uses DSP control system as the platform, current vector control technology, and multiple protection methods, which can be applied to asynchronous motors to provide excellent driving performance.



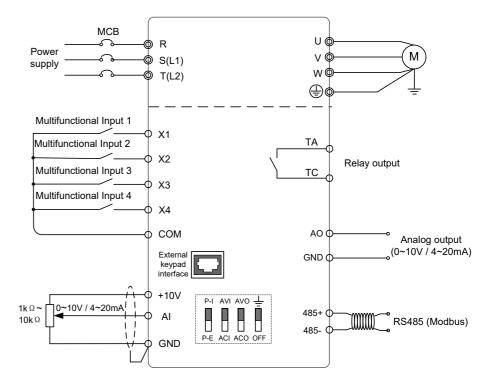


#### **♦** Technical specifications

Item	Technical Index	Specification
Input	Input voltage	1AC 220V±15% 3AC 380V±15%
	Input frequency	50/60Hz±5%
Outnut	Output voltage	0∼rated input voltage
Output	Output frequency	0~200Hz
Control Features	Control mode	V/f control Sensorless vector control Torque control
	Operation command mode	Keypad control Terminal control Serial communication control (Modbus)
	Frequency setting mode	Digital setting, analog setting, Modbus communication setting, multi-step speed setting & simple PLC, PID setting, etc. These frequency settings can be combined & switched in various modes.
	Overload capacity	120% 60S
	Starting torque	0.25Hz/150% (SVC); 0.5Hz/150% (V/f)
	Speed control precision	±0.5% (V/f), ±0.2% (SVC),
	Carrier frequency	2.0~16.0kHz
	Frequency accuracy	Digital setting: 0.01Hz Analog setting: maximum frequency ×0.05%
	Torque boost	Automatically torque boost; manually torque boost: 0.1%~30.0%
	V/f curve	Three types: linear, multiple point and square type
	Acceleration/deceleration mode	Two groups of acceleration/deceleration time, range: 0.1s~999.9s
	DC braking	DC braking when starting and stopping DC braking frequency: 0.0Hz~maximum frequency, braking time: 0.0s~25.0s
	Jog operation	Jog operation frequency: 0.0Hz~maximum frequency Jog acceleration/deceleration time: 0.1s~3600.0s
	Simple PLC & multi-step speed operation	It can realize a maximum of 16 multi-step speeds running via the built-in PLC or control terminal.
	PID	Standard PID function build-in

Item	Technical Index	Specification	
Control Function	Over-voltage & over-current stall control	Limit current & voltage automatically during the running process, prevent frequent over-current & over-voltage tripping	
	Fault protection function	Comprehensive protections include over-current, over-voltage, under-voltage, overheating, default phase, overload, shortcut, etc., can record the detailed running status during failure & has fault automatic reset function	
Input / output terminals	Input terminals	4 multifunctional programmable digital input; 1 analog input AI: $0\sim10V$ / $4\sim20mA$	
	Output terminals	1 normal open relay output (TA, TC) 1 analog output AO: 0~10V / 4~20mA	
	Communication	RS485 interface, MODBUS-RTU communication protocol	
Human machine interface	LED display	Display frequency setting, output frequency, output voltage, etc.	
interrace	Multifunction key	QUICK/JOG key, can be used as multifunction key	
	Ambient temperature	-10°C ~40°C, without direct sunshine.	
Environ- ment	Humidity	90%RH or less (non-condensing)	
	Altitude	≤1000M: output rated power, >1000M: output derated	
	Storage temperature	-20 °C ~60 °C	

#### **♦** System wiring



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#### **♦ Product Model Description**

## FD100M - 1R5G - S2







1)	Series code	FD100M: High performance variable frequency drive
2	Rated power	1R5G: 1.5kW heavy load
3	Rated Voltage	<b>S2</b> : 1AC 220~240V ± 15% <b>4</b> : 3AC 380~415V ± 15%







#### **♦** Selection Guide

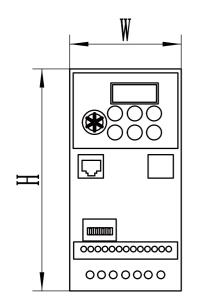
Power	Suitable Motor (kW)	Rated Output Current (A)
1AC 220~240V ±15%		
0.4kW	0.4	2.3
0.75kW	0.75	4
1.5kW	1.5	7
2.2kW	2.2	9.6
3AC 380~415V ±15%		
0.75kW	0.75	2.5
1.5kW	1.5	4.2
2.2kW	2.2	5.5
4KW	4	9
5.5KW	5.5	13

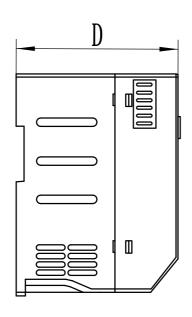


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### FGI

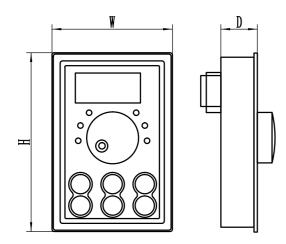
#### **Outlook Drawing**





#### ♦ Inverter outlook dimensions

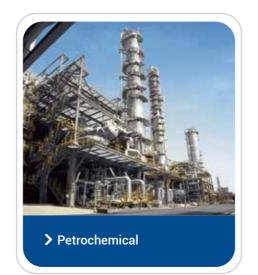
Power	Outlook dimensions (mm)		
(kW)	н	w	D
0.75~2.2KW	63	142	104.5
4~5.5KW	78	180	126.4

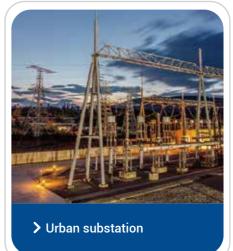


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Power	Outlook dimensions (mm)		
(kW)	Н	w	D
All Series	53	79	15.9

### ♦ Application fields



















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