

FV100 Series VFD

- Rated Voltage/Frequency: 3PH AC 380~ 440V, 50 / 60Hz
- Control Method: Vector control with PG, Vector control without PG and V/F control
- Output Frequency Range: 0~300.0 Hz
- Frequency Accuracy: Digital setting: Max frequency * $\pm 0.01\%$, Analog setting: Max. frequency * $\pm 0.2\%$

Key technology data and function		
Input	Rated voltage/frequency	3-phase, 380V~440V AC. 50Hz/60Hz
	Applicable voltage range	Voltage: 320V~460V, Voltage unbalancedness:<3%. Frequency tolerance: $\pm 5\%$
Output	Rated voltage	380V
	Frequency	0Hz~300Hz.
	Overload capacity	G Type: 150% rated current 1 minute, 180% rated current 10 seconds
Control Characteristics	Control method	Vector control without PG, Vector control with PG, V/F control
	Modulation System	Space vector PWM modulation
	Starting torque	0.5Hz 150%rated torque(Vector control without PG), 0Hz 200% rated torque(Vector control with PG)
	Frequency accuracy	Digital setting: 0.01Hz. Analog setting: Max. frequency $\times \pm 0.2\%$
	Frequency resolution	Digital setting: 0.01Hz. Analog setting: Max. frequency $\times \pm 0.05\%$
	Torque boost	Manual torque boost: 0%~30.0%
	V/F Pattern	4 patterns: one pattern is V/F curve setting by users, the other three are drop torque character curve(2.0 power, 1.7 power, 1.2 power)
	Acceleration/Deceleration curve	Linear acceleration/deceleration. Four kinds of acceleration/deceleration time are optional
	DC braking	Braking starting frequency:.00~60.00Hz Braking time:0.0~10.0s Braking current: 0.0~100.0%
	Auto current limit	Auto limit the current during operation to prevent frequent overcurrent trip.
Customized function	Jogging	Jogging frequency range: 0.0Hz~50.00Hz. Jogging acceleration/deceleration time: 0.1~60.0s.
	Multiple speed operation	Implement multiple speed operation by digital inputs
Operation function	Operation command	Keypad setting, Terminal setting, Communication setting.
	Frequency command	Keypad setting, Analog input, Pulse input, Communication setting
	Auxiliary frequency setting	Implement flexible auxiliary frequency trim and frequency synthesis
	Pulse output	0~100KHz pulse output
	Analog output	2 channels analog output(1/4~20mA or 0/2~10v)
Operation panel	LED Display	Display setting frequency, output frequency, output voltage, output current and so on, about 20 parameters
	Parameters copy	Copy parameters by operation panel
	Keys lock and function selection	Lock part of keys or all the keys . Define the function of part of keys
Protection functions	Protection functions	Dopen phase protection (Optional), overcurrent protection, overvoltage protection, undervoltage protection, overheat protection, overload protection and so on.
Environment	Operating site	Indoor, installed in the environment free from direct sunlight, dust, corrosive gas, combustible gas, oil mist, steam and drip.
	Altitude	Derated above 1000m, the rated output current should be decreased by 10% for every rise of 1000m
	Ambient temperature	0°C~40°C, when temperature is higher than 40°C, the power is derated.
	Humidity	5%~95% RH, non-condensing.
	Vibration	Less than 5.9m/S ² (0.6 g)
	Storage temperature	minus 40C~70C
Structure	Protection class	IP20
	Cooling method	Air cooling, with fan control.
	Installation	Wall-mounted
	Efficiency	45KW or below: >93%; 55KW or above: >95%.