- Induction Heating
 Industrial Automation
- Photovoltaic Energy Storage

Canroon

CV800D Compact Frequency Inverter

Compact Design Beyond Imagination

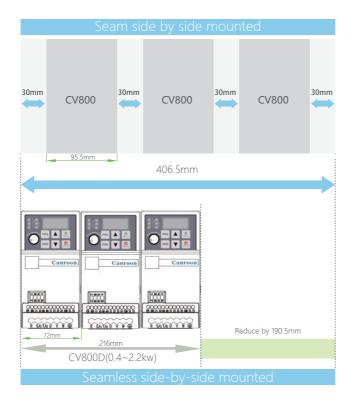


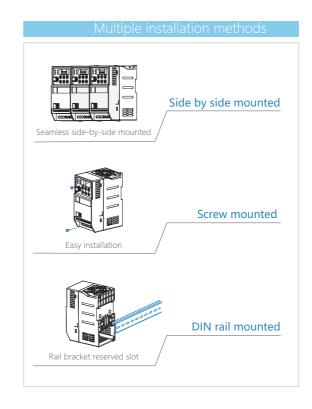


Function And Performance Features

Small And Compact Design

- ★ Optimal power density design, effectively realize the product volume minimization;
- ★ With the full power section equal volume book structure design, support seamless side-by-side installation in the minimum space;
- ★ Installation mode: support screw mounted and rail mounted





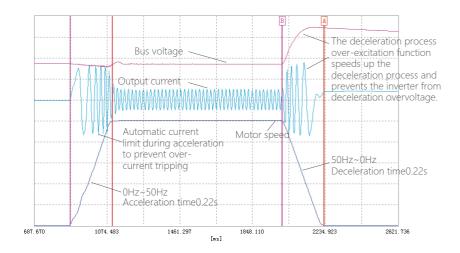
Stable And Reliable Operation

- ★ High-standard EMC design, effectively reduce external interference, meet precise control requirements;
- ★ Fully enclosed shell + independent air duct design, which can isolate dust to the greatest extent, ensure long-term stable operation of electronic components;
- ★ The conformal coating is thickened, IGBT pins are added with casing, glue dispensing treatment for the anti-seismic weaker part, improve the environmental coverage.



Excellent Performance And Functions

- ★ Large rated current design, large overload current and short acceleration time;
- ★ Deceleration process automatically add overexcitation function, deceleration time is short;
- ★ Strong overmodulation capability, higher output voltage under the same input voltage;
- ★ Powerful overload suppression ability ensures that the inverter will not stop due to overload fault at the maximum output;
- ★ Support Modbus communication, easy to realize industrial automation networking:



Easy And Simple Debugging

- ★ Built-in industry professional macro application, support industry parameters one-click setting
- ★ Support external operating panel



Obtained EU CE And ISO Quality Certification



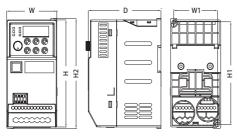


Model Selection

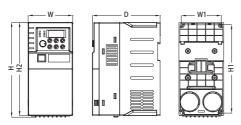
CV	CV800D - 002 G -1 4 T F					
	1	2 3 4567				
1	Product series	CV800D (Inverter series)				
2	Model power	00A: 0.4KW ~ 005: 5.5KW				
3	Load type	G: Constant torque				
4	Output	1: 3-phase 2: 1-phase				
(5)	Voltage level	1: 110V 2: 220V 4: 380V				
6	Input	S: 1-phase T: 3-phase				
7	Cooling mode	B: Air cooling (with built-in braking unit) F: Air cooling (without built-in braking unit)				

Specification Model	Rated Power (KW)	Rated output current (A)			
1-phase 220V					
CV800D-00AG-12SF	0.4	2.3			
CV800D-00BG-12SF	0.75	4			
CV800D-001G-12SF	1.5	7			
CV800D-002G-12SF	2.2	9.6			
	3-phase 380V				
CV800D-00BG-14TF	0.75	2.1			
CV800D-001G-14TF	1.5	3.8			
CV800D-002G-14TF	2.2	5.1			
CV800D-004G-14TF	4	8.5			
CV800D-005G-14TF	5.5	13			

Structure And Dimensions



Picture 1: CV800D-00AG-12SF ~ 002G-14TF



Picture 2: CV800D-004G-14TF ~ 005G-14TF

Specification	Overall Dimensions (mm)		Installation Hole Position (mm)				Installation
Model	W1 (mm)	H1 (mm)	W (mm)	H (mm)	H2 (mm)	D (mm)	Aperture (mm)
CV800D-00AG-12SF							
CV800D-00BG-12SF							
CV800D-001G-12SF							
CV800D-002G-12SF	63	136.5	72	142	146	104.5	4.5
CV800D-00BG-14TF		130.3	, _			.09	
CV800D-001G-14TF							
CV800D-002G-14TF							
CV800D-004G-14TF		170 г	0.7	105	100	122	4 5
CV800D-005G-14TF	78	172.5	87	185	182	132	4.5

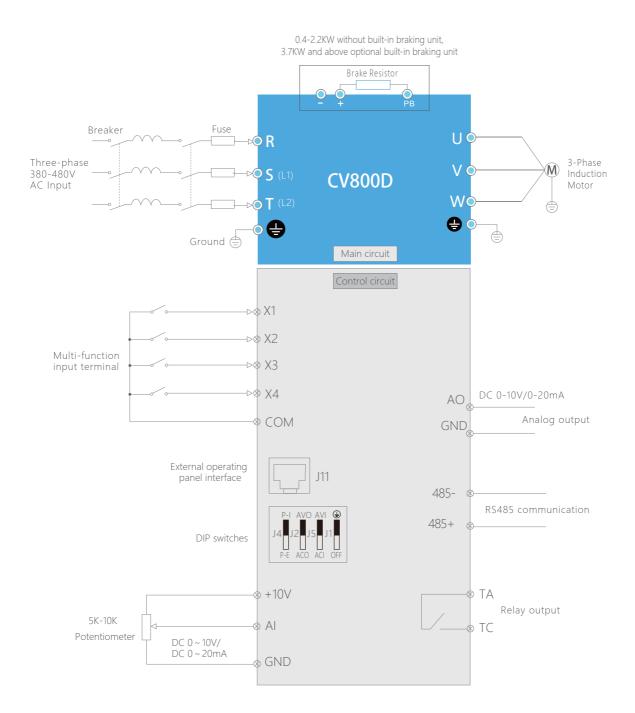
Optional accessories

Туре	Description	Support models
External operating panel	LED External operating panel	
External operating panel cable	External operating panel cable, 3 meters length	
	External operating cable,1.5 meters length	All models
DIN rail mounted accessories	DIN rail mounted accessories	

Technical Parameter

	Functional Description		Specification Index
ᆵ	Rated Voltage,Frequency		3-phase (4T) AC380V, 47~63Hz; 1-phase (2S) AC220V, 47~63Hz
Input			3-phase (4T) AC320V~480V; 1-phase (2S) AC160V~260V
0	Voltage		4T, 0~480V; 2S, 0~260V
Output	Frequency		Vector control: 0~500Hz V/F control:0~500Hz
두	Overload Capac	city	150% rated current 60s; 180% rated current 5s; 195% rated current 0.5s
	Control Mode		V/F Control、Speed Sensorless Vector Control (SVC)
C	Frequency	Analog Input	Max. Frequency × 0.025%
	Setting Resolution	Digital Setting	0.01Hz
	V/F Control	V/F Curve	Three ways: the first is the linear torque characteristic curve, the second is the square torque characteristic curve, and the third is the user-set V/F curve
		V/F separation	2 types: full separation and half separation
		Torque Compensation	Manual setting: 0.0~30% of rated output Automatic compensation: according to output current and motor parameter
		Automatic Currentlimiting and Voltage-limiting	During acceleration, deceleration or steady running, detect automatically the current and voltage of motor stator, and control it within bounds based on unique algorithm, minimize fault-trip chanc
ontro		Voltage Frequency Character	Adjust pressure/frequency ratio according to motor parameter and unique algorithm
Control Character	Senseless Vector Control	Torque Character	Starting torque: 0.1Hz 150% rated torque (V/F control) 0.25Hz 150% rated torque (SVC) Operating speed precision in steady state: ≤±0.2% rated synchronous speed speed fluctuation: ≤±0.5% rated synchronous speed Torque response: ≤20ms (SVC)
		Motor parameter self-measurement	Without any restrictions, the automatic detection of parameters can be completed under the static and dynamic conditions of the motor to obtain the best control effect.
		Current and Voltage Restrain	Current closed-loop control, free from current impact, perfect restrain function of overcurrent and overvoltage
	Undervoltage Restrain during Running		Specially for users with a low or unsteady voltage power grid: even lower than the allowable voltage range, the syster can maintain the longest possible operating time based on its unique algorithm and residual energy allocation strategy
	Multi-velocity and Traverse Operation		16 segments programmable multi-segment speed control, a variety of operating modes are optional. Swing frequency operation: preset frequency, center frequency adjustable, state memory and recover after power failure.
	PID Control RS485 Communication		Built-in PID controller (able to preset frequency). Standard configuration RS485 communicatio function.
		Analog Input	Direct voltage 0~10V, direct current 0~20mA (optional up limit and lower limit)
	Frequency Setting	Digital Intput	Operation panel setting, RS485 port setting, UP/DW terminal control, or combined with analog input
		Digital Output	One relay output
J	Output Signal	Analog Output	1-channel analog output, 4-20mA / 0-10V free switching
Typical	Automatic Stea	dy voltage Operation	Dynamic steady state, static steady state, and unsteady voltage for choices to obtain the steadiest operation
a F		eceleration Time Setting	0.0s~65000.0s min continuous setting, S type and linear type mode for choice
		Dynamic Braking	Dynamic braking initial voltage, backlash voltage and dynamic braking continuous adjustable
nction		Dynamio Braking	Halt DC braking initial frequency: 0.00~[F0.10] upper limit frequency
5	Brake	DC Braking	Braking time: 0.0~100.0s; Braking current: 0.0%~100.0% of rated current
	Low Noise Running		Carrier frequency 1.0kHz~16.0kHz continuous adjustable, minimize motor noise
			A built-in counter, facilitate system integration
	Counter Operation Function		Upper limit and lower limit frequency setting, frequency hopping operation, reversal running restraint, slip frequency compensation, RS485 communication, frequency control of progressive increase and decrease, failure recovery aomatically, etc.
므	Operation Panel Display	Running State	Output frequency, output current, output voltage, motor speed, set frequency, module temperature, PID setting, feedback, analog input and output.
Display		Alarm	There are 8 operating parameter records including output frequency, output current, bus voltage, input terminal status output terminal status, inverter status, power-on time, and running time when three faults trip
	Protective Function		Overcurrent, overvoltage, undervoltage, module fault, electric thermal relay, overheat, short circuit, default phase of input and output, motor parameter adjustment abnormality, internal memory fault, etc.
Envir	Ambient Temperature		-10°C ~ +40°C (please run the VFD in derated capacity when ambient temperature is 40°C~50°C)
	Ambient Humidity		5%~95%RH, without condensing drops
onn	Surroundings		Indoors (without direct sunlight, corrosive or flammable gas, oil fog and dust)
nen	Altitude		Running in derated capacity above 1000m, derate 10% for every 1000m rise.
Environment Structure		on Level	IP20
	Cooling Method		
ıcture	Cooling	Method	Air cooling with fan control

Terminal Wiring Diagram







Official WeChat

Official websit

Shenzhen Canroon Electrical Appliances Co., Ltd

Headquarters address: 9/F, Skyworth Innovation Valley, No. 8 Tangtou 1 Road, Shiyan Street, Baoan District, Shenzhen Factory address: 8/F, Building 8, Zhongyuntai Hi-tech Ind Zone, Songbai Road, Shiyan Street, Bao'an District, Shenzhen, China.

www.canroon.com

1 0755-26890923 / 26890925