- Induction Heating
 Industrial Automation
- Photovoltaic Energy Storage

Canroon

CV800E Compact Frequency Inverter

Compact Design Beyond Imagination

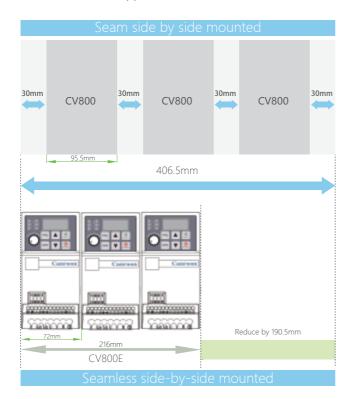


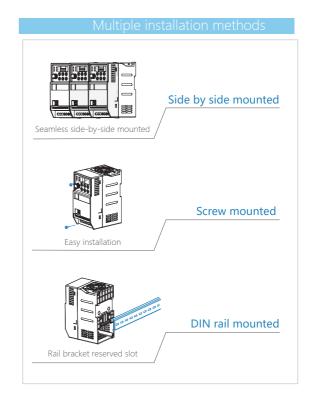


Function And Performance Features

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





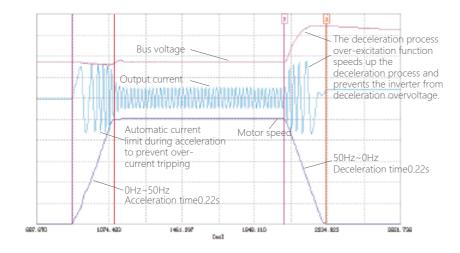
Stable And Reliable Operation

- ★ 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



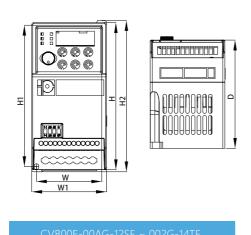


Model Selection

<u>CV800E</u> - <u>002</u> <u>G/P</u> - <u>1 4 T F</u> <u>3 6 7</u>				
1	Product series	CV800E(Inverter model)		
2	Model power	00A: 0.4KW 002: 2.2KW		
3	Load type	G: Constant torque P: Variable 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	F: Air cooling W: Water cooling		

Specification Model	Rated Power (KW)	Rated output current (A)		
1-phase 220V 50/60Hz				
CV800E-00AG-12SF	0.4	2.4		
CV800E-00BG-12SF	0.75	4.5		
CV800E-001G-12SF	1.5	7		
CV800E-002G-12SF	2.2	10		
3-phase 380V 50/60Hz				
CV800E-00AG-14TF	0.4	1.2		
CV800E-00BG-14TF	0.75	2.5		
CV800E-001G-14TF	1.5	3.7		
CV800E-002G-14TF	2.2	5		

Structure And Dimensions



Specification	Overall Dimensions (mm)		Installation Hole Position (mm)				Installation
Model		W1 (mm)	H (mm)	H1 (mm)	H2 (mm)	D (mm)	Aperture (mm)
CV800E-00AG-12SF		72	142	136.5	146	104.5	4
CV800E-00BG-12SF							
CV800E-001G-12SF							
CV800E-002G-12SF							
CV800E-00AG-14TF	63						
CV800E-00BG-14TF							
CV800E-001G-14TF							
CV800E-002G-14TF							

Optional accessories

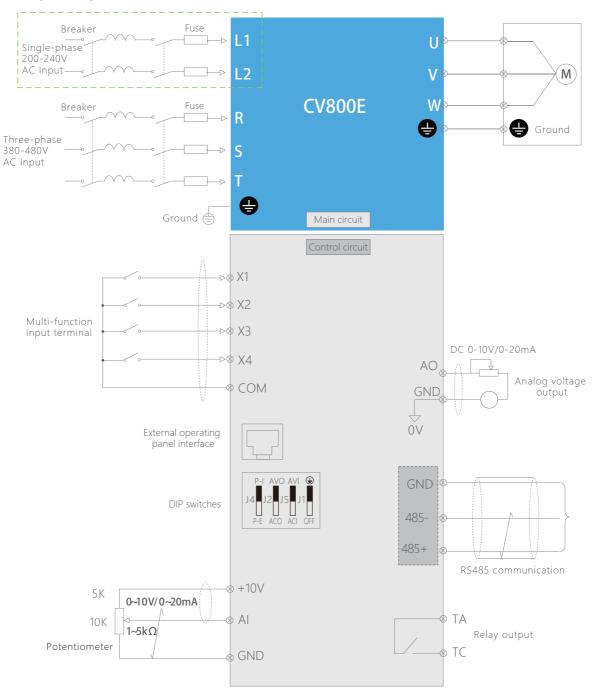
Туре	Description	Support models	
External operating panel	External operating panel		
External operating panel cable	External operating panel cable, 3 meters length		
	External operating cable,1.5 meters length	All models	
DIN rail mounted accessories	DIN rail mounted accessories		

Technical Parameter

	Functional I	Description	Specification Index
=	Rated Voltage,Frequency		3-phase (14T) 380V, 50~60Hz; 1-phase (12S) 220V, 50~60Hz
Input	Allowed Voltage Range		3-phase (14T) 320V~460V; 1-phase (12S) 190V~250V
	Voltage		14T, 0~380V; 12S, 0~220V
Output	Frequency		0~999.9Hz
put	Overload Capacity		110% for long-term, 150% for 1 min, 180% for 5s
	Control Mode		V/F control, simple vector control, advanced vector control, torque control
	Frequency	Analog Input	0.1% of maximum output frequency
	Setting Resolution	Digital Setting	0.01Hz
	Fraguanay	Analog Input	Within 0.2% of maximum output frequency
	Frequency Precision	Digital Setting	Within 0.01% of set output frequency
		V/F Curve	
	V/F Control	(voltage frequency character)	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
		Torque Compensation	Manual setting: 0.0~30% of rated output Automatic compensation: according to output current and motor parameter
Con		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
rol Ch		Voltage Frequency Character	Adjust pressure/frequency ratio according to motor parameter and unique algorithm
Control Character	Senseless	Torque Character	Starting torque: 5.0 Hz 100% rated torque (VF control) 1.0 Hz 150% rated torque (VC)
	Vector Control	Motor Parameter Self-measurement	Being able to detect parameter automatically under static state and dynamic state of motor, thus guarantee an optimum control.
		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 system can maintain the longest possible operating time based on its unique algorithm and residual energy allocation strategy
	Multi-velocity and	Traverse Operation	7segments programmable multi-velocity control, multiple operation mode.
	PID Control RS48	35 Communication	Built-in PID controller (able to preset frequency). Standard configuration RS485 communication function.
	1.12 0011110111011	Analog Input	Direct voltage 0~10V, direct current 0~20mA (optional up limit and lower limit)
	Frequency Setting	Digital Input	Operation panel setting, RS485 port setting, UP/DW terminal control, or combined with analog input
		Digital Input	1 channel relay output (TA, TC), up to 17 choices
	Output Signal	Digital Input	1 channel analog signal output, output ranging within 0~20mA or 0~10V with flexibly setting, achievable output of
Typical Function	- 1 3	Analog Input	physical quantities like set frequency, output frequency
<u>ca</u>	Automatic Stea	dy voltage Operation	Dynamic steady state, static steady state, and unsteady voltage for choices to obtain the steadiest operation
핕	Acceleration and De	eceleration Time Setting	0.1s~999.9min continuous setting
ncti		Dynamic Braking	Dynamic braking initial voltage, backlash voltage and dynamic braking continuous adjustable
on	Brake	DC Braking	Halt DC braking initial frequency: 0.00~[F0.05] upper limit frequency Braking time: 0.0~30.0s; Braking current: 0.0%~50.0% of rated current
		Flux Restraint	0~100 0: invalid
	Low Noise Running		Carrier frequency 2.0kHz~20.0kHz continuous adjustable, minimize motor noise
	Speed Tracking an	d Restart Function	Smooth restart during operation, instantaneous stop and restart
	Counter		A built-in counter, facilitate system integration
	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.
Dis	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	The latest 6 faults record; running parameters record when the latest fault tripping happens including output frequency, set frequency, output current, output voltage, DC voltage4 and module temperature.
	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.
Environment	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
nme	Surroundings		Indoors (without direct sunlight, corrosive or flammable gas, oil fog and dust)
ent	Altitude		Running in derated capacity above 1000m, derate 10% for every 1000m rise.
Structure	Protection Level		IP20
cture	Cooling Method		Air cooling with fan control
	Installation	on Method	Wall-hanging type

Terminal Wiring Diagram

The input side in the dotted box is different for single-phase and three phase models. Perform wiring according to the actual models.







Official WeChat

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