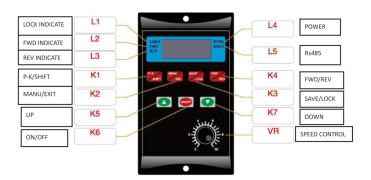
F100C Compact Frequency Inverter

100W, 200W,400W, 750W

INVERTER INSTRUCTION

- 1.1. Display interface description
- L1: The red LED flashing button is locked.
- L2: Forward indicator light is green (FWD), always on during operation. The LED flashes when forward rotation is stopped.
- L3: Reverse indicator blue (REV), always on during operation. The LED flashes when reverse rotation stops.
- L4: POWER indicator, the power indicator is always on.
- L5: Rs485 communication instruction.



1.2. Key function explanation

- K1 P-K/shift: function parameter display button (P-K/SHIFT). Press the P-K button to query the IPM module temperature, bus current, bus voltage, motor operating speed, and motor operating frequency. The SHIFT key can be used for shift selection during setting.
- K2 menu/exits set the enter button (MENUZESC) o MENU button is the function enter button. The ESC key is the exit key.
- K3 save/lock:save/lock button (SAVE/LOCK) SAVE: save, LOCK: lock. Long press to lock or unlock the K2, K3,
- K4 keys. After 3 minutes of operation, if there is no operation on the interface, it will automatically lock.
- K4 reverse/forward; forward/reverse switching button (FWD/REV).
- K5 increment: speed control plus button/data setting plus (t) o

- K6 Start/Stop: Start/stop button set confirmation key (RUM/STOP/OK).
- K7 Decrease Speed-Decrease Button/Data Setting Decrease (I)<.

VR panel speed adjustment potentiometer: invalid when setting button speed adjustment and Rs485 communication operation.

- 2. Function description
- 2.1. Brief description of the inverter

This inverter is a singlephase 220V voltage input, driving a three phase motor (be sure to convert the connection method to a triangular type). Frequency output 1.0-99.0H B In order to increase the output voltage, this product uses the SVPWM modulation method, the carrier frequency 8.0KHZo is suitable for motors below 750W, and the maximum output power is 1100W. The inverter can arbitrarily change the V/F curve by setting the V/F curve part of the motor is reduced, and the service life of the motor and the inverter is extended, the heat of the motor is reduced, and the service life of the motor and the inverter is extended.

- 2.2. Internal parameter setting
- 2.2.1. Operation interface description

The function parameter display content is as follows:

- 1. Items that can be queried by the K1 key
- A. t-xx: displayed as the temperature value of the radiator,
- B. Cx-xx: displayed as the current value.
- C. xxx.x: Displayed as DC bus voltage value.
- D. xxxx: displayed as the motor speed.
- E. Fxx.x: Displayed as running frequency value.
- 2. E-x.x: indicates a fault, refer to the fault code to determine the cause of the fault.
- The power indicator flashes during the setting interface and startup, indicating that the machine has successfully communicated with the external Rs485.
- 4. The button has no operation for 3 minutes, and the power light flashes. At this time, K2, K3, and K4 are locked. To unlock, press and hold the K3 button for 5 seconds.
- 5. Running indicator lights FWD, REV, flashing means stop; long light means moving in this mode.

2.2.2. Description of setting interface

When you press the K2 (MENU) button, the digital tube flashes -0.0- through the digital setting plus or minus button (f) (1), adjust to select the setting Main code to enter, see (Table 1)

During the setting process, you can adjust the code to be set by the digital setting shift key (K1) and the addition and subtraction buttons (1) (1). After the code is set, press the Enter key (K6) to enter the item code selection. After the sub-item code is selected, press the K6 key to return to the Main code interface, the flashing -X.X- is displayed, then select the next Main code, and then press the K6 key to enter the sub-code selection.

When all the setting options are completed, press the data setting save key K3 to display the

flashing SAVE, then press the data setting save key K3 (SAVE) again to confirm the save, the interface stops flashing and the data is saved. After starting the inverter, it can run according to the set data, without power off and then on. When you do not want to save the data, you can press the menu setting exit key K2 (MENU/ESC) to exit without affecting the previously set parameters, or after no key operation for 20S, it will automatically return to the running interface.

No.	CODE	Content	Sub-item code	Default value
1	-0.1-	Set startup time	Setting range: 1-15 (time range: 5S-0.1S)	7
2	-0.2-	Set stop time	Setting range :1-15(time range:5S-0.1S)	7
3	-0.3-	Minimum frequency compensation	Setting range : 5-15	8
4	-0.4-	Set max of compensation frequency	Setting range :5.0-30.0HZ	20
5	-0.5-	Set the maximum compensation frequency and voltage ratio	Setting range :25-85	55
6	-0.6-	Maximum frequency limit Voltage ratio	Setting range :80-128	128
7	-0.7-	Rs485 baud rate	0:48(4800) 2:192(19200) 1:96(9600) 3:384(38400)	96
8	-0.8-	Rs485 format, ASCII	1: 8N1 3: 8E1 2:8N2 4:801	8N1
9	-0.9-	Aircraft number	1-255	1
	-1.0-	Marking frequency course	0: Panel keyboard control	1
			1: Panel potentiometer control	
10			2: External analog signal input (output voltage is 0-5V) or external potentiometer	
			3: RS485(RS485)	
			4: Segment speed input	1
			0: Panel keyboard control	
			1:RS485(RS485)	1
11	-1.1-	Start/stop control source	2: forward when power on	О
			3: Reverse when power on	
			4: External port	
			0: coast stop	
12	-1.2-	Stop method	1: Decelerate to stop	1
			2: brake stop	
13	-1.3-	M* function selection	0: M1 forward/stop, M2 reverse/stop	0
			1: M1 forward/stop, M2 reverse/stop	
			2: M1 running/stop, M2 section speed	

14	-1.4-	M0 function selection	0: Running indication	
			1: Set arrival instruction	0
			2: fault indication	7 "
			3: undefined (customizable)	
15	-1.5-	Overload protection options	Undefined	
16	-1.6-	Over temperature protection options	40€~100€	90€
17	-1.7-	Highest frequency setting	1.0~99.0Hz	50
18	-1.8-	Minimum operating frequency	1.0~30.0Hz	1
19	-1.9-	working frequency	1.0-99.0Hz	50
20	-2.0-	Maximum output voltage corresponding frequency	35.0~99.0Hz	50
21	-2.1-	Segment speed 1 setting	1.0-99.0Hz	5
22	-2.2-	Segment speed 2 setting	1.0~99.0Hz	10
23	-2.3-	Segment speed 3 setting	1.0~99.0Hz	20
24	-2.4-	Segment speed 4 setting	1.0-99.0Hz	25
25	-2.5-	Segment speed 5 setting	1.0~99.0Hz	35
26	-2.6-	Segment speed 6 setting	1.0-99.0Hz	40
27	-2.7-	Segment speed 7 setting	1.0-99.0Hz	45
28	-2.8-	Operating frequency	1.0~99.0Hz	45
29	-2.9-	Undefined (customizable)		
30	-3.0-	Current display selection	1: Percent ratio	1
31	-3.1-	Undefined (customizable)		_
32	-3.2-	Braking frequency at stop	0.0-50.0HZ	0
33	-3.3-	Braking time	0.0-5.OS	0
34	-3.4-	Braking coefficient	0-30%	0
35	-3.5-	Number of pole pairs	1~6	2
36	-3.6-	Motor slip	0.01-1.00	1
37	-3.7-	Motor rated speed	1-9999	1500
38	-3.8-	Segment speed 0 setting	1.0-99.0Hz	1
39	-9.1-	Restore the default value	Display flashing CLE, press start/stop button to resume	
40	-9.5-	Reset MCU	The display flashes -8.88, press the	-8.88
			start/stop button to reset	

Outside Terminal Wiring Diagram

Wiring Diagram

"COM" are not allowed to connect the earth or zero line.

