

## LCD keypad operating instructions

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# 1、Operations and Display Interface Introduction

LCD panel is a Human-Machine-Interface (HMI) for debugging inverter parameters. The following is keypad function structure and display interface

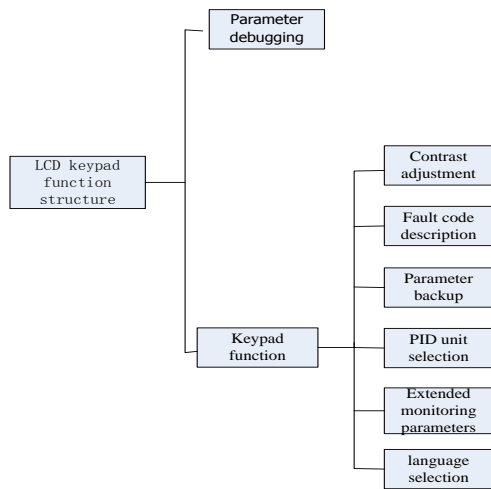


Figure 1-1 Keypad structure





Figure 1-2 Keypad interface

## 1.1 Operation panel button function introduction

Symbol	Name	Function
ESC	Escape	Exit
ENT	Enter	Enter the menu interfaces level by level, and confirm the parameter setting
▲	Increment	Increase data or function code
▼	Decrement	Decrease data or function code
➡➡	Shift	Select the displayed parameters in turn in the stop or running state, and select the digit to be modified when modifying parameters
MF.K	Multifunction	Perform function switchover (such as jog run and quick switchover of command source or direction) according to the setting of F16.00.
▶ RUN	Run	Start the inverter in the keypad control mode
STOP RST	Stop/Reset	Stop the inverter when it is in the running state and perform the reset operation when it is in the fault state. The functions of this key are restricted in F16.01.
▶ RUN + STOP RST	Key combinations 1	The inverter will free stop when the run and stop key are pressed simultaneously.
MF.K + ➡➡	Key combinations 2	The frequency inverter can be quickly set digital given frequency when the MF.K and >> keys are pressed at the same time.
ESC + ➡➡	Key combinations 3	ESC and >> keys are pressed simultaneously to unlock the keypad
ESC + ENT	Key combinations 4	ESC and ENT keys are pressed simultaneously for keypad lock (under the condition that F16.02 is not equal to 0)

## 1.2 Keypad indicator light description

Indicator	名称	含义
 ( Green border )	Running state	On: Running state Off: Stopped state Flash: In process of stop
 ( Red border )	Fault state	On: Fault state Off: Normal state Flash: Warning state

## 1.3 Status Identification Description

Status	Identification	Description
	( PARAM )	Parameter setting state (no-fault stop state)
	( RUN )	Currently running state

Operating status	( STOP )	The inverter is stopping
	( REST )	The inverter is in hibernation mode
	( ERR )	Inverter fault
	( TUNE )	The inverter is in a self-learning state
Starting method	( KEY )	Keypad start-stop mode
	( DI )	Terminal start-stop mode
	( PC )	Communication start-stop mode
Others	LCD2.0	LCD keyboard version
	Ⓜ	Monitor page number (0-6)
	🔒	Keypad lock sign

### 1.4 Prompt message description

prompt	Meaning
Err00 ~ Err99	Fault type
A00 ~ A99	Alarm type
>>?	The current fault or alarm, press >> keypad to view the fault description

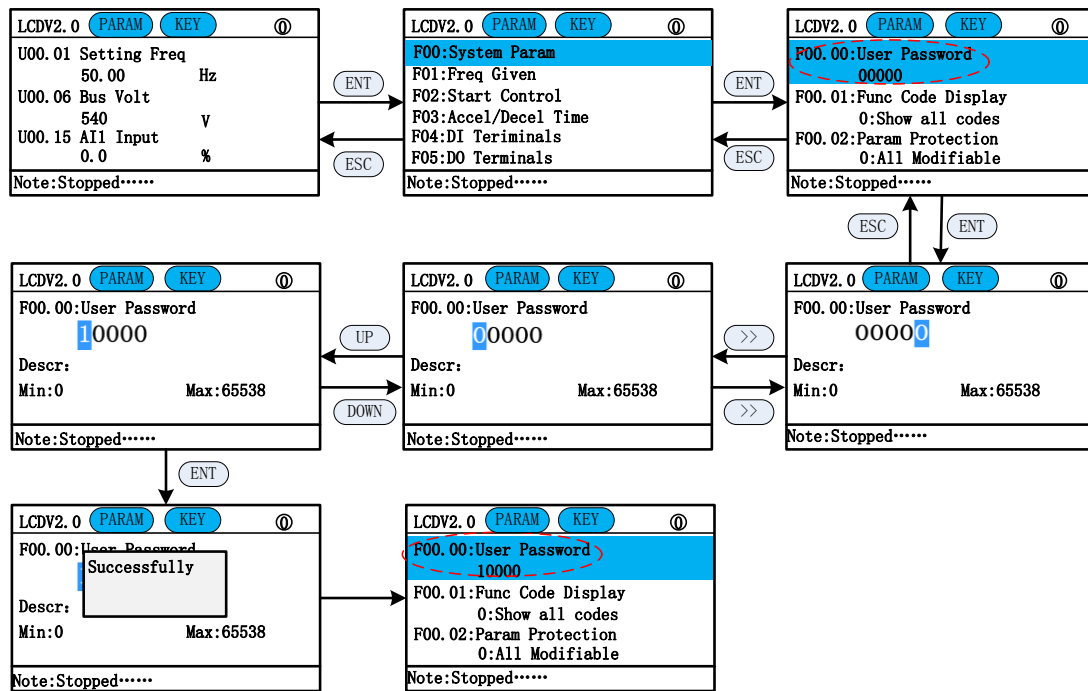
## 2. Operating instructions

### 2.1 Parameter debugging

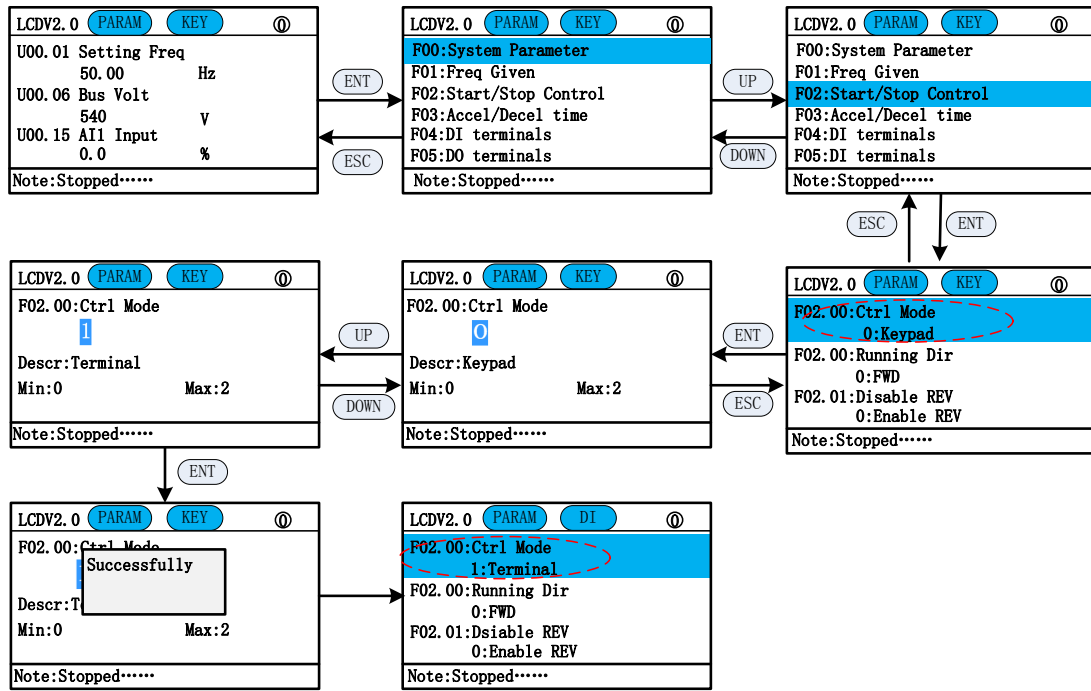
Operation panel adopts three-level menu structure to set parameters and other operations.

The third level menu is: Function parameter group (Level I menu) → Function code (Level II menu) → Function code setting (Level III menu). Below is operation example

#### Example 1: Change the password ( 0000->10000 )

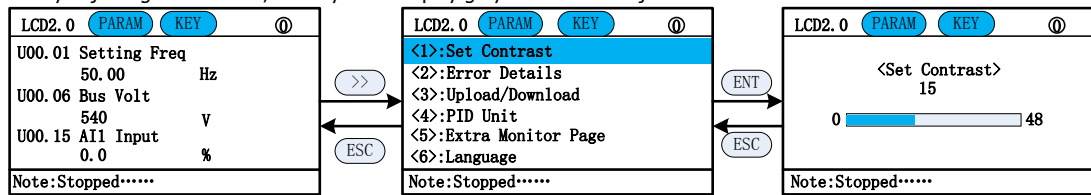


#### Example 2: Modify the starting mode (start by the button -> terminal start)



## 2.2 Contrast adjustment

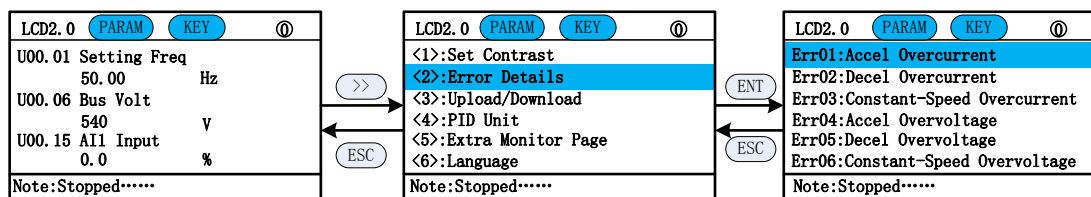
By adjusting the contrast, the keyboard display grayscale can be adjusted .



In the contrast adjustment interface, press the UP / DOWN button to adjust the contrast, after adjusting, press the ENT key to save, ESC cancel.

## 2.3 Fault code description

If a fault or warning occurs, you can check the fault information through (>> key) -> fault code.

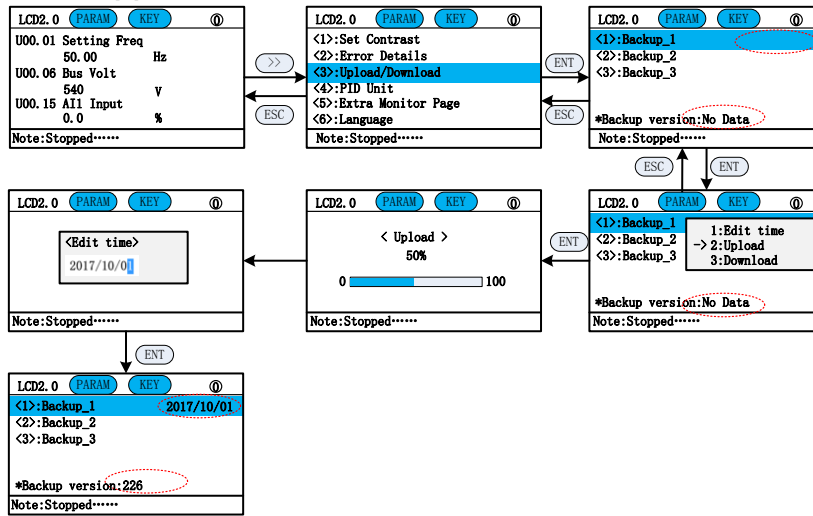


## 2.4 parameter backup function

Three backup parameters can be stored in the keypad and can be restored to the same machine as other software versions.

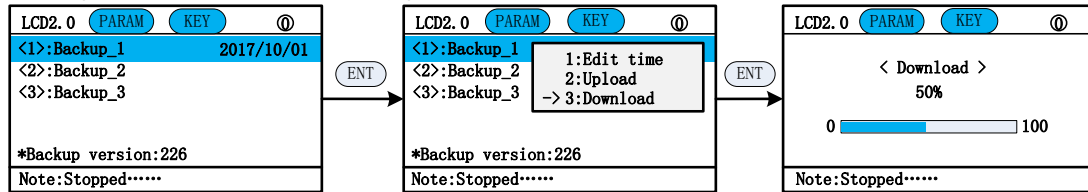
Function: 1) Backup parameters; 2) Restore parameters; 3) View backup parameters; 4) Delete backup parameters.

### 2.4.1 Backup parameters:



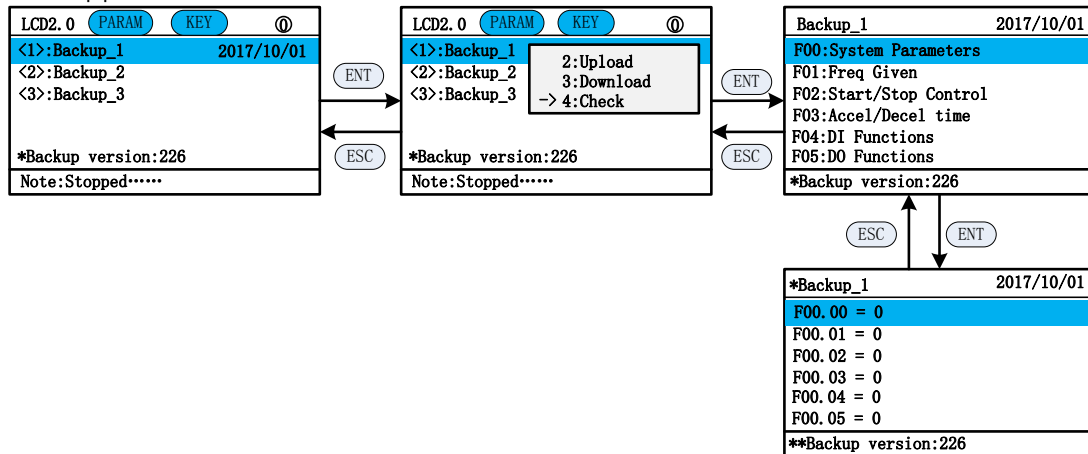
### 2.4.2 Restore Backup Parameters

The parameters that have been backed up can be restored to the same software version of the converter..



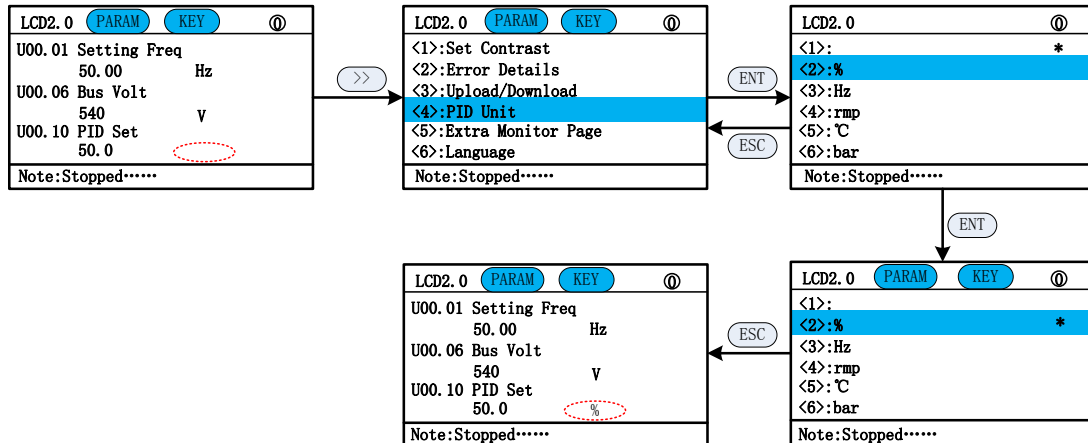
### 2.4.3 View backup parameters

The backup parameters can be viewed.



## 2.5 Set PID unit

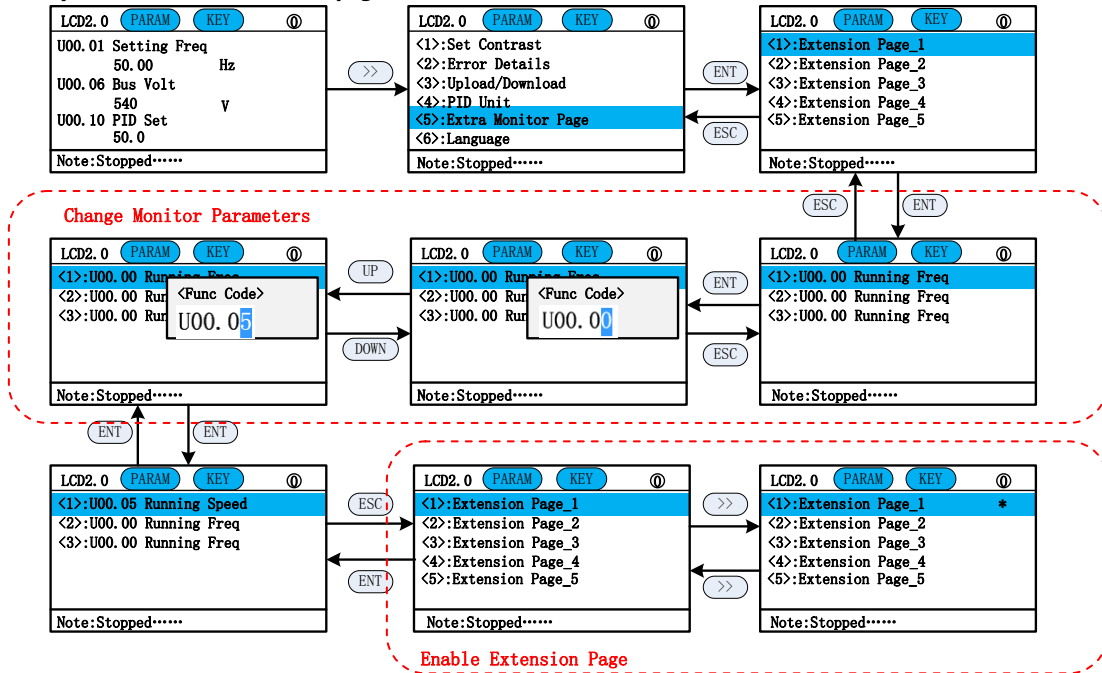
The default PID is unitless and can be selected if needed.



## 2.6 extended monitoring parameters

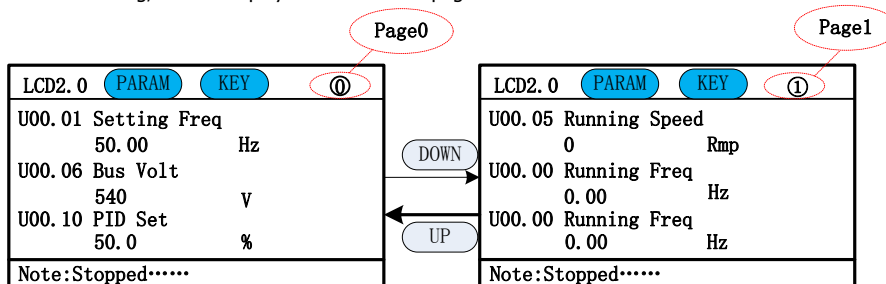
Can add up to 5 pages of extension parameters (15), parameter range (F group, U group, H group (for special machine)).

### 1) Set and add an extension page



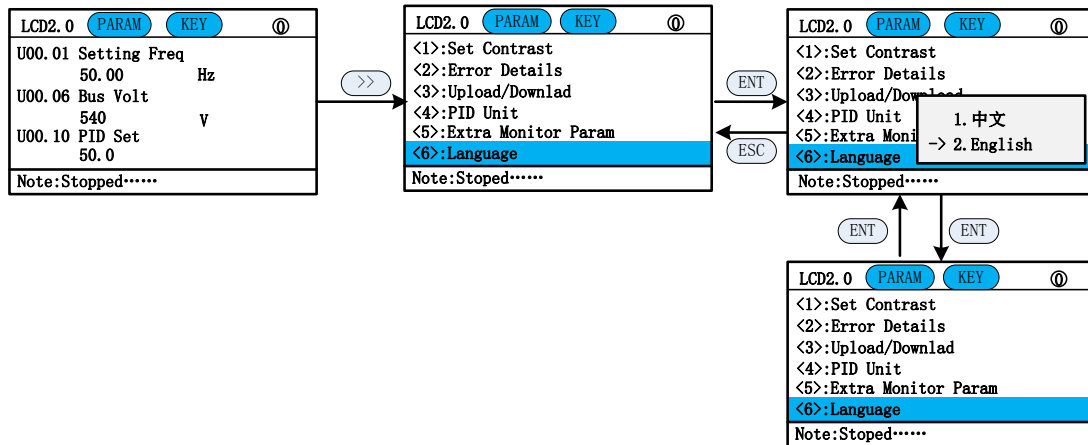
### 2) Home view

After setting, can be displayed on the home page



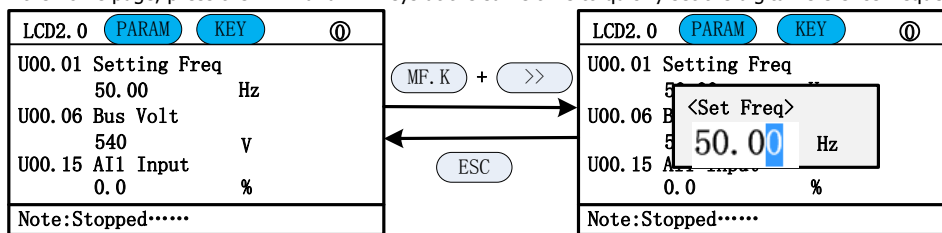
## 2.7 Language setting

Support Chinese and English two languages.



### 2.8 quickly set the frequency

On the home page, press the MF.K and >> keys at the same time to quickly set the digital reference frequency.



### 2.9 password settings

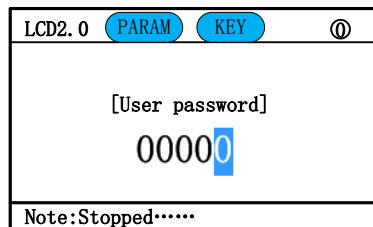
The inverter provides the user password protection function. When F00.00 is greater than 100, it is the user password, and the 5-minute keypad no-operation password protection will take effect. The parameters can not be changed. Must enter the correct user password to enter the normal menu, or can not enter.

There are 3 ways for the user password to take effect:

Method 1: After setting F00.00 to be greater than 100, press ESC + ENT simultaneously.

Method 2: After setting F00.00 to be greater than 100, there is no keypad operation within 5 minutes.

Method 3: After setting F00.00 to be greater than 100, than power on again.



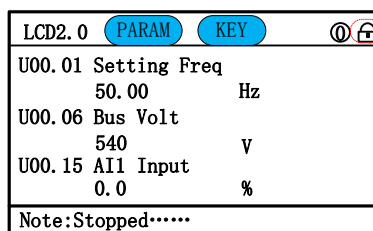
### 2.10 Keypad lock

1) 3 ways to lock the keypad;

Method 1: After setting F16.02 not equal to 0, press the ESC + ENT key at the same time.

Method 2: After setting F16.02 not equal to 0, do not operate the panel within 5 minutes.

Method 3: After setting F16.02 not equal to 0, power on again.



2) Keypad unlock: Press ESC + >> at the same time.

LCD2.0	PARAM	KEY	①
U00.01	Setting Freq	50.00	Hz
U00.06	Bus Volt	540	V
U00.15	AI1 Input	0.0	%
Note: Stopped.....			