

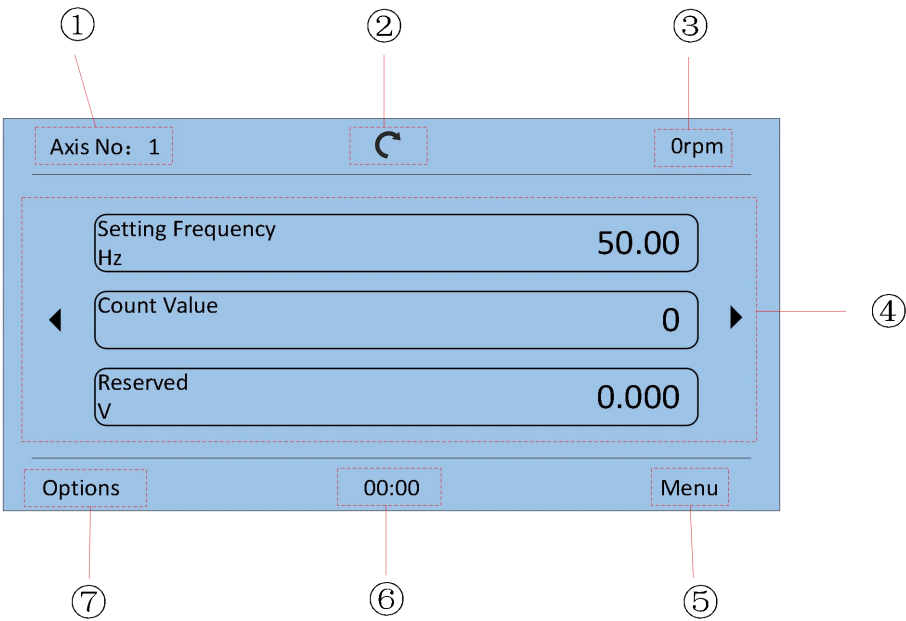
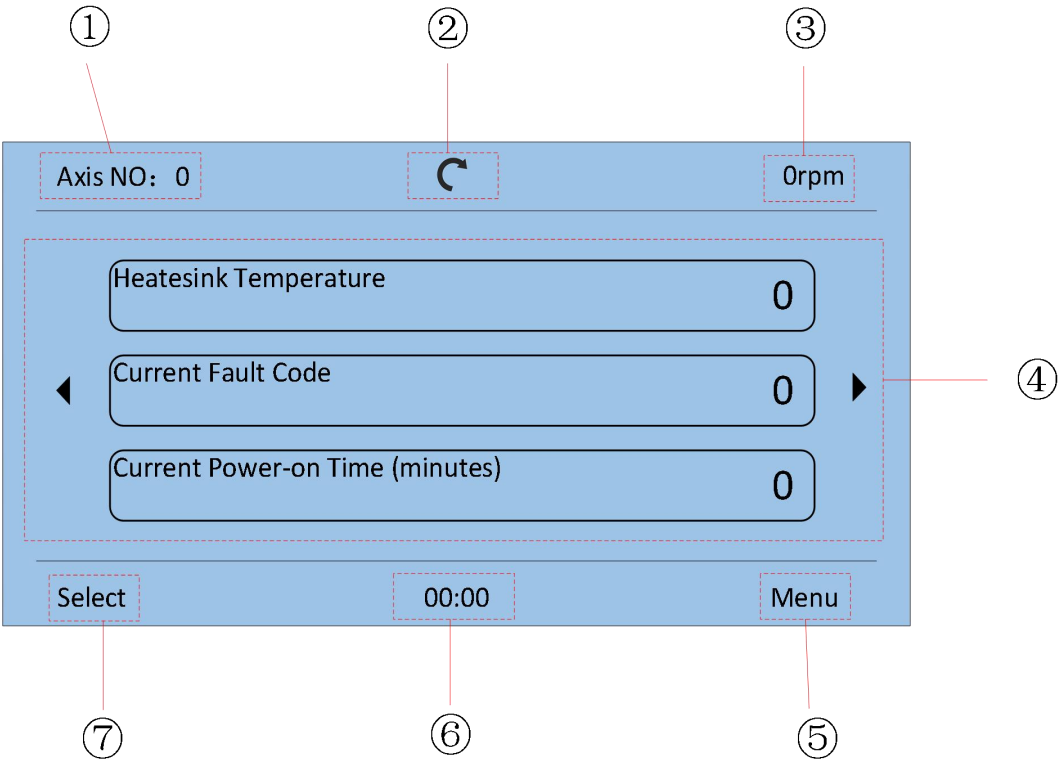
LCD Control Panel Instructions DP8-Y-5

1-1 Panel Diagram



Key	Name	Function
	Left Soft Key	Typically used to exit or cancel.
	Right Soft Key	Typically used to select or confirm.
	Help Key	Opens the help page. The help page is context-sensitive, meaning the content of the page corresponds to the relevant menu or view.
	Run Key	Starts the device in local control mode.
	Stop Key	Stops the device in local control mode. When the device is in a fault state, the Stop Key is used to reset device faults.
	AXIS Key	Used to switch between different control axes.
	Directional Keys	The up and down keys are used to select items in menus and lists, scroll through text pages, and adjust values (e.g., setting time, entering a password, or changing parameter values). The left and right keys are used to move the cursor left or right during parameter editing.

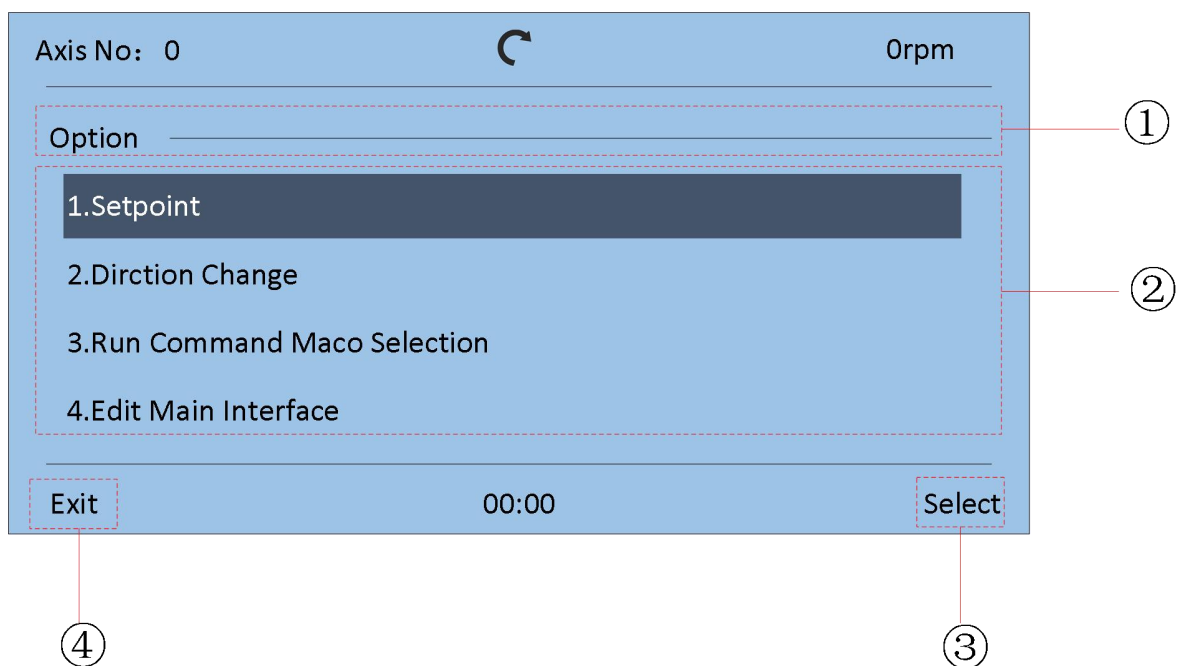
1-2 Main Screen



No.	Display content	Note
1	Axis No.	Indicates the axis currently being monitored/controlled
2	Direction of rotation	“↻” : Forward; “↺” : Reverse
3	RPM (Rotations Per Minute)	Display current RPM
4	Content Area	Real-time display of monitoring data
5	Menu	Used to enter the function menu options of the current device.
6	Clock	Displays the current time.
7	Option	Used to enter the option page of the current device.

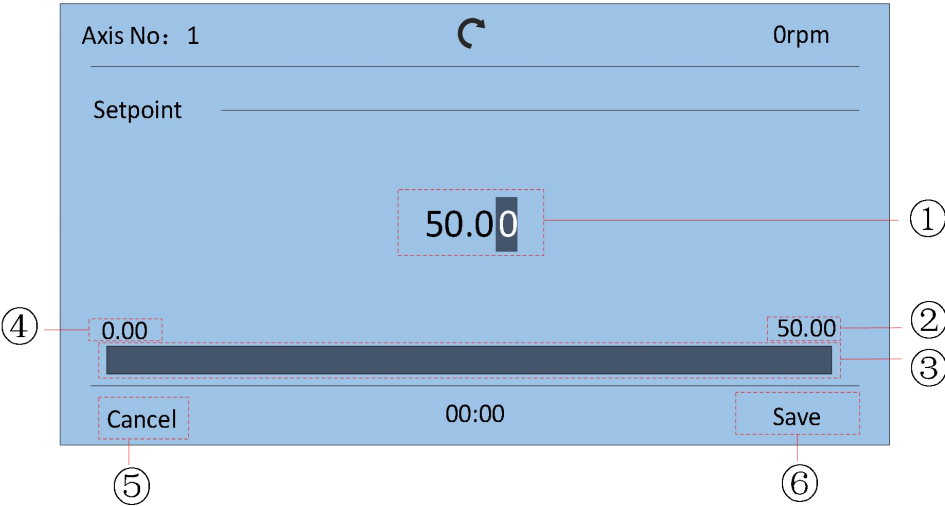
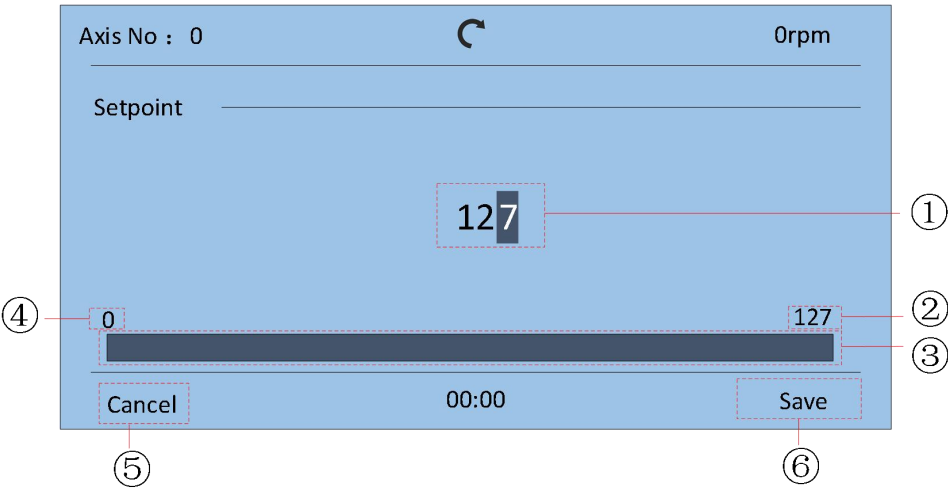
1-3 Options

Pressing the Options key displays the following page:



No.	Display Item	Description
1	Current Page	Indicates the current page.
2	Content Area	Displays the content of the current page. Black indicates the currently selected line.
3	Select	Used to enter the next-level interface.
4	Exit	Used to exit the current interface and return to the previous level.

1-3-1 Setpoint



No.	Display Item	Description
1	Current Value	Displays the current value of the parameter.
2	Maximum Value	The maximum value that can be set for the current parameter.
3	Value Progress Bar	Shows the proportional relationship between the current value and the settable range.
4	Minimum Value	The minimum value that can be set for the current parameter.
5	Cancel	Discards the modified value and returns to the previous interface.
6	Save	Saves the current modified value and returns to the previous interface.

1-3-2 Direction Change

Select the running direction. Press the Select key to change the running direction indicator:

“” (Forward) , “” (Reverse) 。

1-3-3 Run Command Macro Selection

Axis No: 0		0rpm
Run Command Macro Selection		
1. Keypad Enabled		
2. Communication Enabled		
Cancel	00:00	Select

You can set the relevant parameters to the values required for the currently selected device with one keypress.

1-3-4 Main Edit Screen

Click here, select the field containing the parameter you want to modify on the main page, click "Edit," and proceed to the edit page.

Axis No: 0

↺

0rpm

Heatsink Temperature0

◀Current Fault Code0▶

Current Power-on Time (min)0

Done

00:00

Edit

①

②

③

Axis No: 1

↺

0rpm

Setting Frequency50.00
Hz

◀Count Value0▶

Reserved0
V

Done

00:00

Edit

①

②

③

No.	Display Item	Description
1	Content Area	Displays editable content; black indicates selection
2	Done	Save the current settings and return to the previous screen
3	Edit	Modify the currently selected content and proceed to the next screen

Axis No: 0		0rpm
Parameter		
D0.00 Bus Voltage		
D0.01 Heatsink Temperature		
D0.02 Reserved		
D0.03 Reserved		
Cancel	00:00	Select

The displayed content corresponds to the parameters in Group D0.

Select the parameters you want to display on the main page, click "Select," return to the previous screen, click "Done," and the parameter changes are complete.

1-4 Menu

Setting Instructions: Set FP.00 to a non-zero value to enable the parameter protection password. In Function Parameter Mode and User-Changed Parameter Mode, parameters and menus can only be accessed after entering the correct password. To cancel the password, set FP.00 to 0. Parameter menus in User-Defined Parameter Mode are not protected by the password.

Enter the menu page:

Axis No: 0		0rpm
Menu		
1.Parameter List		
2.Modified Parameters		
3.Event Log		
4.Parameter Management		
Exit	00:00	Select

1-4-1 Parameter List

Axis No: 0		0rpm
Menu		
P0.Internal CAN		
P1.Rectifier Control Parameters		
P4.Input Terminals		
P5.Out Terminals		
Back	00:00	Select

Axis No: 1		0rpm
Menu		
P0.Basic Function Group		
P1.Motor Parameters		
P2.Motor Parameters		
P3.V/F Control Parameters		
Back	00:00	Select

Display content: Parameter group name, covering all user parameter groups.

Example: Select the P0 group, then press the "Select" button to enter the parameter group.

Axis No: 1		0rpm
Basic Function Group		
P0.00 G/P Display Type		
P0.01 Control Mode Selection		
P0.02 Run Command Channel Selection		
P0.03 Main Frequency Source X Selection		
Back	00:00	Select

Select the row containing the parameter, then press the "Select" button to enter the parameter settings page.

The parameter settings page has different layouts, primarily in the following three formats:

①: **Optional parameters**

Example: P0.09 (Axis 0) – Start Enable Missing

- 0: Disable
- 1: Enable

Displayed as follows:

Axis No: 0		0rpm
Missing Station Start Enable		
0:Disable		
1:Enable		
Cancel	00:00	Save

Example: P0.02 Operation Command Channel Selection for axis No. 1

- 0: Keyboard Command Channel (LED is off)
- 1: Terminal command channel (LED on)
- 2: Communication Command Channel (LED Flashing)

Displayed as follows:

Axis No: 1		0rpm
Command Source Selection		
0:Keypad Command Channel		
1:Terminal Command Channel		
2:Communication Command Channel		
Cancel	00:00	Save

Press the "Save" button to set the current parameter value to the selected option and return to the previous page.

②: **Direct digital parameter setting**

Example: Manual setting for P0.00 (Axis 0) rectifier station number 0~127

Displayed as follows:

Axis NO: 0 ↺ 0rpm

Maximum Frequency

000

0 127

Cancel Save

This screenshot shows the configuration interface for Axis No. 0. The title bar includes 'Axis NO: 0', a refresh icon, and '0rpm'. The main section is titled 'Maximum Frequency'. The central display shows the value '000'. Below this, a horizontal slider bar is shown with '0' at the left end and '127' at the right end. At the bottom, there are 'Cancel' and 'Save' buttons.

Example: P0.10 for axis No. 1 - Maximum Frequency 50.00HZ~600.00HZ

Displayed as follows:

Axis No: 1 ↺ 0rpm

Maximum Frequency

050.00 Hz

50.00 600.00

Cancel Save

This screenshot shows the configuration interface for Axis No. 1. The title bar includes 'Axis No: 1', a refresh icon, and '0rpm'. The main section is titled 'Maximum Frequency'. The central display shows the value '050.00 Hz'. Below this, a horizontal slider bar is shown with '50.00' at the left end and '600.00' at the right end. At the bottom, there are 'Cancel' and 'Save' buttons.

③: Set parameters on a per-bit basis

Example: P7.03 LED operating display parameter 1 for axis 1

Axis No: 1 ↺ 0rpm

LED Running Display Parameter 1

0x001F ①

0x0000 0xFFFF

Cancel Save

This screenshot shows the configuration interface for Axis No. 1, specifically for the 'LED Running Display Parameter 1'. The title bar includes 'Axis No: 1', a refresh icon, and '0rpm'. The main section is titled 'LED Running Display Parameter 1'. The central display shows the value '0x001F', which is highlighted with a red dashed box and a red line pointing to a circled '1' on the right. Below this, a horizontal slider bar is shown with '0x0000' at the left end and '0xFFFF' at the right end. At the bottom, there are 'Cancel' and 'Save' buttons.

1	Content Area	Displays the current value; adjust by bit. Black indicates that the currently selected bit is being adjusted.
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1-4-2 Modified parameters

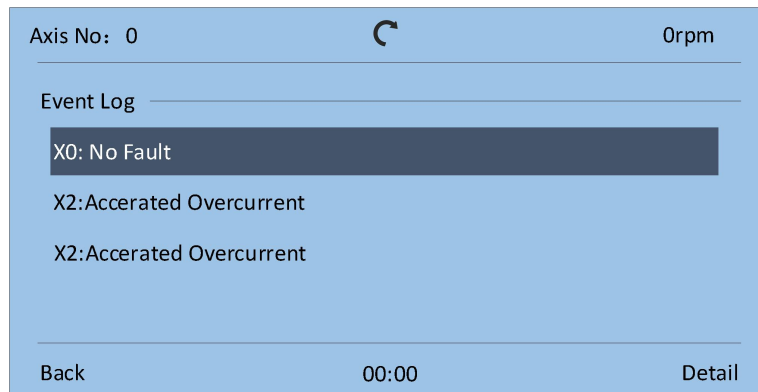
Displays a list of parameters that have been modified; you can also edit these parameters directly on this page using the same method described in Section 1-4-1.

Once you enter the interface, start by reading the parameters:

Once the parameters have been loaded, display the list of modified parameters:

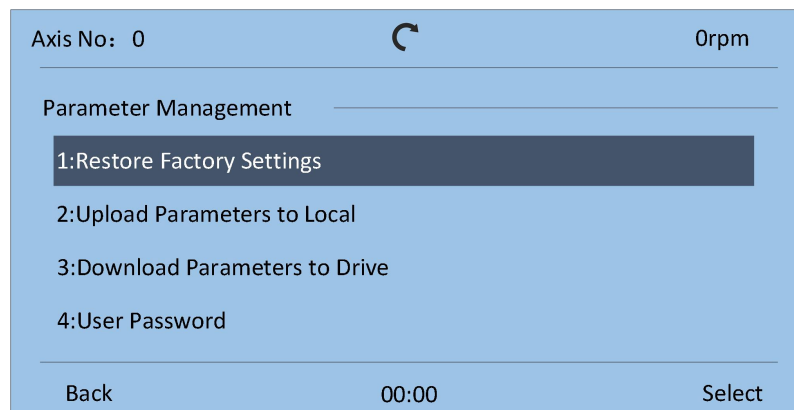
1-4-3 Event Log

Records of the last three faults. Click "Details" to view data such as frequency, current, bus voltage, and the status of input and output terminals at the time of the fault.

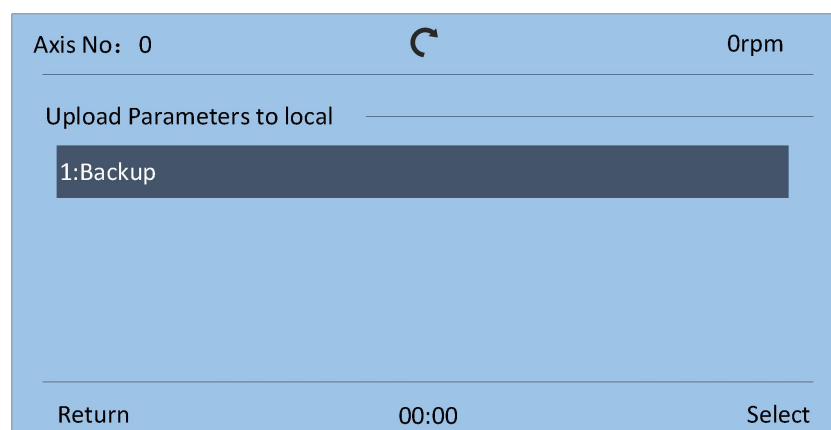


1-4-4 Parameter Management

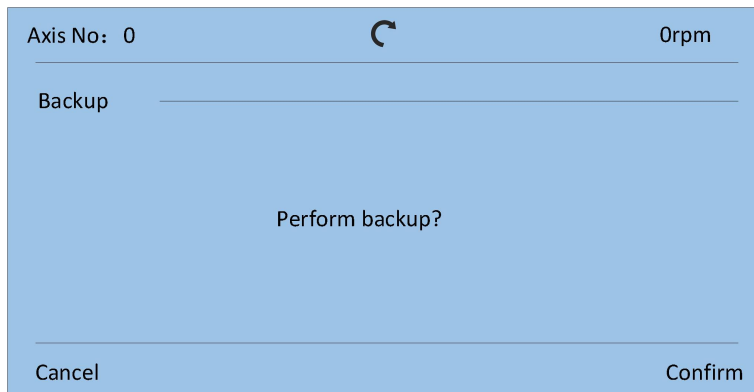
Parameter management allows you to copy parameters to the keyboard or write backup parameters from the keyboard to the inverter. You can also use this screen to restore factory settings.



Example: Select "2: Upload parameters to local machine"

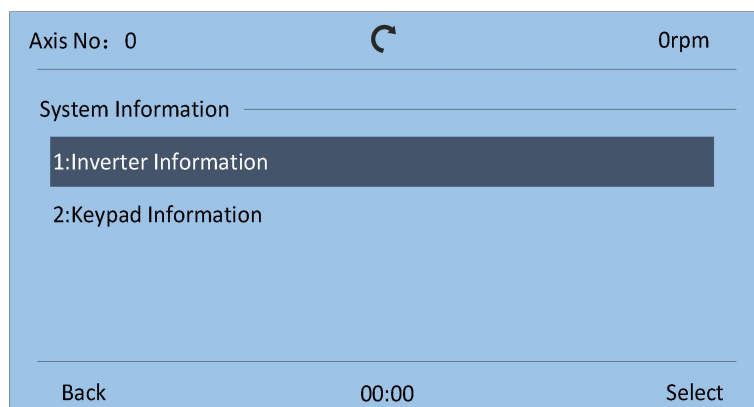


Select the data you want to back up, then click "Select."



Click "Confirm" and wait for the backup to finish.

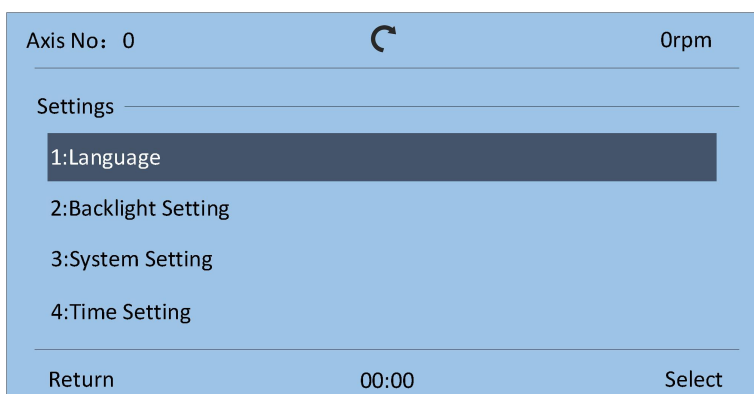
1-4-5 System Information



Select "1: Inverter Information" to view data such as the product model, inverter software version, inverter power rating, and inverter voltage rating.

Select "2: Keypad Information" to view data such as the LCD keypad model, LCD keypad software version, received communication data volume, and transmitted communication data volume.

1-4-6 Settings



Settings include: Language, Backlight Setting, System Setting, Time Setting, Keyboard Communication Setting, LCD Reset.

1: Tap Language to enter the next interface, where two language modes can be set: Chinese and English.

2: Tap Backlight Setting to enter the next interface, where the Backlight Brightness Time can be set.

3: Tap System Setting to enter the following interface:

Axis No: 0		0rpm
Please Enter Password		
00000		
Cancel	Confirm	

Enter the password; if the password is correct, the next page appears:

Axis No: 0		0rpm
System Setting		
PF. Factory Parameters		
CE. Factory FIFO Calibration		
Keypad Version Selection		
Return	00:00	Select

PF and CE group parameters can be set, and the keyboard version can be selected.

4: Tap Time Setting to enter the next interface, where the date and time can be set.

5: Tap Keyboard Communication Setting to enter the following interface:

Axis No: 0		0rpm
Keypad Communication Setting		
1:Baud Rate		
2:Parity		
3:Stop		
4:Local Address		
Back	00:00	Select

Display Content: Baud Rate, Parity Check, Stop Bit, Local Address, Communication Timeout, Communication Current Read Resolution, Communication Local Address Selection

6: Tap" LCD Reset"

Axis No: 0 ↺ 0rpm

LCD Reset

Reset?

Back Confirm

Select Confirm to perform the reset. After the reset is complete, the interface returns to the previous level.

1-5 Self-Study Guide

Power on the inverter (axis 1), and set P0.01:

Axis No: 1 ↺ 0rpm

Basic Function Group

P0.00 G/P Display Type

P0.01 Control Mode Selection

P0.02 Run Command Channel Selection

P0.03 Main Frequency Source X Selection

Back 00:00 Select

Axis No: 1 ↺ 0rpm

P0.01 Control Mode Selection

0: Sensorless Vector Control

1: PG Vector Control

2: V/F Control

Cancel Save

If P0.01 = 0, the motor parameters and appropriate acceleration/deceleration times must be set, followed by parameter auto-tuning, as shown in the table below:

P1.01	Motor Rated Power
P1.02	Motor Rated Voltage
P1.03	Motor Rated Current
P1.04	Motor Rated Frequency
P1.05	Motor Rated Speed

Axis No: 1↺0rpm

Motor Rated Power

0022.0

0.11000.0

CancelSave

Axis No: 1↺0rpm

Motor Rated Voltage

0380 V

12000

CancelSave

Axis No: 1↺0rpm

Motor Rated Currented

045.00 A

0.01655.35

CancelSave

Axis No: 1↺0rpm

Motor Rated Frequency

50.00 Hz

0.0150.00

CancelSave

Axis No: 1
↺
0rpm

Motor Rate Speed

01460 rpm

1
65535

Cancel
Save

Then set appropriate acceleration and deceleration times:

P0.17	Acceleration Time
P0.18	Deceleration Time

Axis No: 1
↺
0rpm

Acceleration Time 1

0020.0 S

0.0
6500.0

Cancel
Save

Axis No: 1
↺
0rpm

Deceleration 1

0020.0 S

0.0
6500.0

Cancel
Save

Finally, perform motor parameter auto-tuning:

P1. 37	0: No action 1: Static auto-tuning 2: Dynamic auto-tuning 3: Full static auto-tuning 11: SVC synchronous motor static auto-tuning 12: SVC synchronous motor dynamic auto-tuning
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Axis No: 1 0rpm

P1.37

0: No Operation

1: Static Self-learning

2: Dynamic Self-learning

3: Full Static Self-learning

Cancel Save

Axis No: 1 0rpm

P1.37 Self-learning Selection

9: Reserved

10: Reserved

11: SVC Synchronous Motor Static Self-learning

12: SVC Synchronous Motor Comprehensive Self-learning

Cancel Save

After auto-tuning, set the command source (P0.02) and stopping method (P6.10), then perform a test run. If the operation is normal without any issues, the quick commissioning is complete. If the motor does not run, check whether the parameter settings are correct starting from P0.02, and repeat the previous steps until normal operation is achieved.

Axis No: 1 0rpm

Run Command Channel Selection

0: Keypad Command Channel

1: Terminal Command Channel

2: Communication Command Channel

Cancel Save

Axis No: 1 0rpm

Stop Mode

0: Deceleration Stop

1: Free Stop

Cancel Save

If P0.01 = 2, motor auto-tuning is not required. After correctly entering the motor nameplate

parameters (P1.01 – P1.05), you can directly set the command source (P0.02), stopping method (P6.10), acceleration time (P0.17) and deceleration time (P0.18), then perform a test run. If the operation is normal without any issues, the quick commissioning is complete. If the motor does not run, check whether the parameter settings are correct starting from P0.02, and repeat the previous steps until normal operation is achieved.