

# PDO-LCD User Manual

## 1 Overview

1.1 PROMPOWER launched PDO-LCD aiming to assist customers to use and control inverter. LCD keypad can clearly display the meaning of function code, range of parameter value, and other information in the text form on its screen. PDO-LCD is an option for PD110 series inverter. To avoid personal injury or property damage resulting from improper use, please read this instruction carefully before use. PDO-LCD is available for PD110 with software version of control board in 1.04 or above.

### 1.2 Technical Data

Environment	
Running Environment	Indoor, no direct sun exposure, no flammable and corrosive gases and liquids
Operating Temperature	-10°C~40°C
Ambient Humidity	Less than 90%RH, no condensation
Storage Temperature	-40°C~70°C
Atmospheric Pressure	70kPa~106kPa
Dimension(H×W×D)	94mm×60mm×15mm
Weight	72g
Ingress Protection	IP20

## 2 Function and Display

### 2.1 Function

The functions of LCD keys and screen are as follows:




- Display:** Indicate the operating state of inverter and display parameter code, parameter name, fault code, etc.
- Control:** Used for inverter stop, start, jog and others.
- Parameter editing:** Read and modify parameter values.
- Parameter backup:** Copy parameters.

### 2.2 Liquid Crystal Display (LCD)

PDO-LCD includes a LCD screen and eight function keys, which are as shown in the following figure:

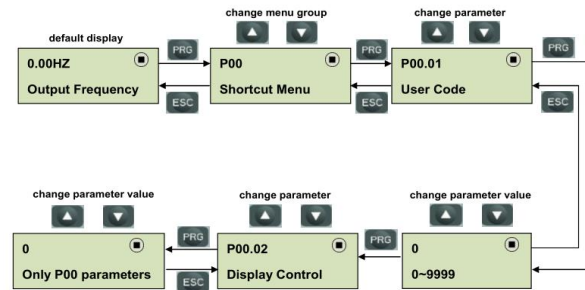


LCD screen can display inverter status, parameters and its contents, faulty, alarm code, text prompt, etc. According to the status of inverter, the corresponding icon is displayed in the upper right corner of screen. The meaning of each icon is shown as follow:

Icon	Description
	Indicates that inverter is at stop state
	Output frequency is zero when it keeps still Clockwise rotation means inverter is running forward Counter-clockwise rotation means running in reverse
	Indicates that inverter is at password-locked state

LCD screen is divided in two rows. The first row displays parameter code, parameter value, fault code, alarm code, etc. The second row displays parameter name, parameter value function explanation, parameter value range and other information. Specific display content and mode are as follows:

- When LCD displays inverter status information, parameter code, enumeration type<sup>(Note1)</sup> parameter value, the first row presents parameter code, fault code, alarm code or parameter value, and the second row presents parameter name, fault name, alarm name or function explanation of parameter value. For example:

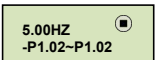


**\*Note 1 enumeration type parameter value:** provide a list of options that each contains a function identity, such as P01.01 etc.

- When LCD displays the value of integer parameter<sup>(Note2)</sup>, the second row presents its value range.

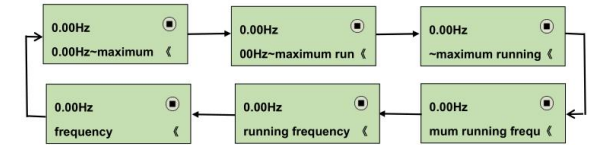
**Example 1:** Set P01.02, press **PRG** and it displays 

It means the current setting value of maximum frequency is 50.00Hz, and the range of P01.02 is 0.00~300.00Hz.

**Example 2:** Set P04.01, press **PRG** and it displays . It means the current preset speed value is 5.00Hz, and its range is -P01.02~P1.02.

**\*Note 2 integer parameter:** parameters whose value can be continuously changed, such as output frequency, acceleration and deceleration time, motor rated current, etc.

- If text information cannot be fully displayed on the effective width of LCD screen, then the content dynamically circulates to the left, with a “《” on the right to hint. For example, set P01.05, enter the parameter value and screen dynamically displays as follow.



### 2.3 Key Function

LCD key function is the same as LED keypad function, standard equipment of PD110 series inverter. Refer to *PD110 User Manual*.

## 3 Keypad Operation

LCD keypad operates in the same way as LED keypad, standard equipment of PD110 series inverter. Refer to *PD110 User Manual*.

**Note:** After the switch between LED and LCD keypad, the inverter needs to be restarted (power off and then power on again) to be used normally.

## 4 Troubleshooting

If PDO-LCD cannot normally display:

- Check whether the connection cable is well connected;
- Check whether the power supply of inverter is normal.

## 5 Service Agreement

The free maintenance time(warranty period) is 12 months, which doesn't cover damages led by following reasons:

- Failure to operate according to the instruction;
- Man-caused fault, such as private disassembly, transformation, etc;
- Product failure due to force majeure, such as earthquake, fire, etc.

We are committed to technological progress and reserve the right to modify this manual without prior notice.