Renegeration Module For Elevator

~ RG series

Instruction

Manual

Version: V1.3

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Foreword

[redacted]

” Do not touch the radiation fins (heat sink). It can become very hot.

” Be careful when changing the settings. The module is factory set to suitable settings.

Maintenance and Inspection

” Do not touch RG module terminals. Some of the terminals carry high voltages and are extremely dangerous.

” Always have the protective cover in place when power is being supplied to the module. When attaching the cover, always turn OFF power to the module through the MCCB.

” After turning OFF the main circuit power supply, wait for the time indicated on the fro cover, and make sure the CHARGE indicator light has gone out, and then perform mainter and inspection.

” Maintenance, inspection, and replacement of parts must be performed only by authoriz personnel. Remove all metal objects, such as watches and rings, before starting work. Al use grounded tools.

” Do not change the wiring, or remove connectors or terminal, during power on period.

[redacted]

”

Other

”

Chapter 2 Introduction and Installation

2.1. Model Description

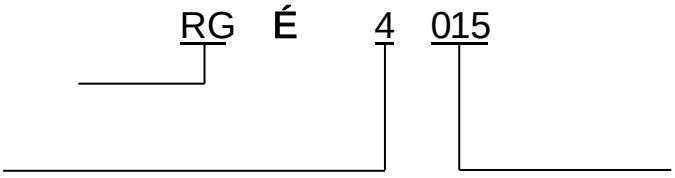

FIGURE 2.1 MODEL DESCRIPTION

2.2. Nameplate information

FIGURE 2.2 NAMEPLATE INFORMATION

2.3. Specifications

CHART 2.1 SPECIFICATIONS

MODEL RG-40		4015	4030	4037	4045	4055	4075
MAX MOTOR POWER (KW)							
RATED OUTPUT	MAX OUTPUT CURRENT (A)						
	RATED OUTPUT CURRENT (A)						
INPUT POWER	RATED VOLTAGE (V)						
	RATED FREQUENCY (HZ)						
CONTROL FEATURES	ORIGIN FEEDBACK VOLTAGE						
	BRAKING MODE						
	HYSTERESIS VOLTAGE						
	FEEDBACK CALCULATION						
	FEEDBACK MODE						
	FEEDBACK POWER THD						
	POWER FACTOR OF AC						
	EFFICIENCY						
	RESPONSE TIME OF BRAKE						
	BRAKING TORQUE						
	WORK SYSTEM			~		—	
	FAN CONTROL						
MAIN PROTECTION FUNCTION	3 PHRASE PROTECTION						
	OVER VOLTAGE PROTECTION						
	OVER CURRENT PROTECTION						
	OVER HEAT PROTECTION						
	SHORT CIRCUIT PROTECT						
I/O	RELAY OUTPUT						
	OPTICAL ISOLATION UNIT						
DISPLAY	FUNCTION ACHIEVEMENT						
	DISPLAY CONTENT						

CHART 2.1 SPECIFICATIONS (CONTD)

USING AMBIENCE	COOLING	
	PROTECTION DEGREE	
	AMBIENT TEMPERATURE	
	HUMIDITY	
	VIBRATION	
	APPLICATION SITUATION	
OTHER	INTERNAL REACTOR	
	INTERNAL NOISE FILTER	

2.4. Appearance

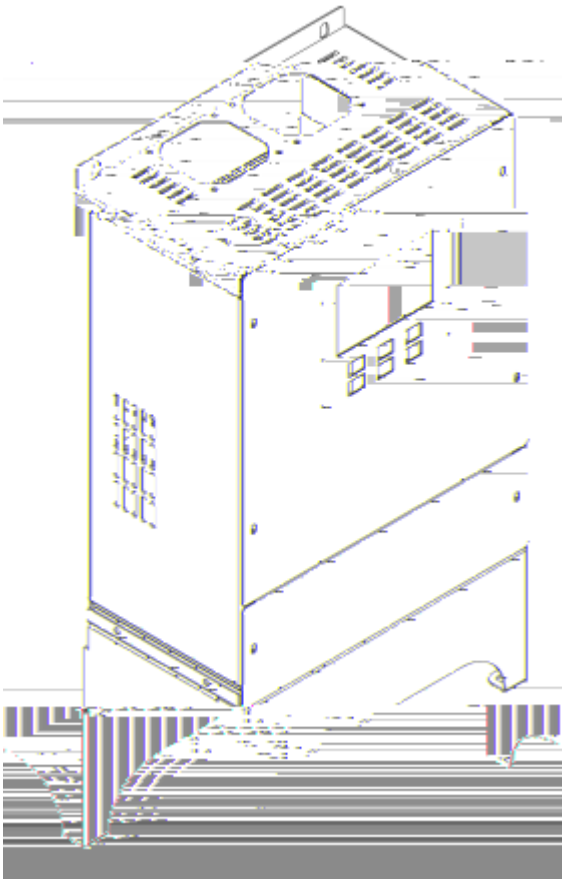

FIGURE 2.3 APPEARANCE

2.5. Exterior Dimensions

CHART 2.2 EXTERIOR DIMENSION

2.6. Confirmation Upon Delivery

CHART 2.3 THINGS TO CHECK UPON DELIVERY

2.7. Installation

2.7.1. Installation Site

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2.7.2. Temperature Requirement

2.7.3. Protect the module from Foreign Object

2.7.4. Installation Orientation and Space

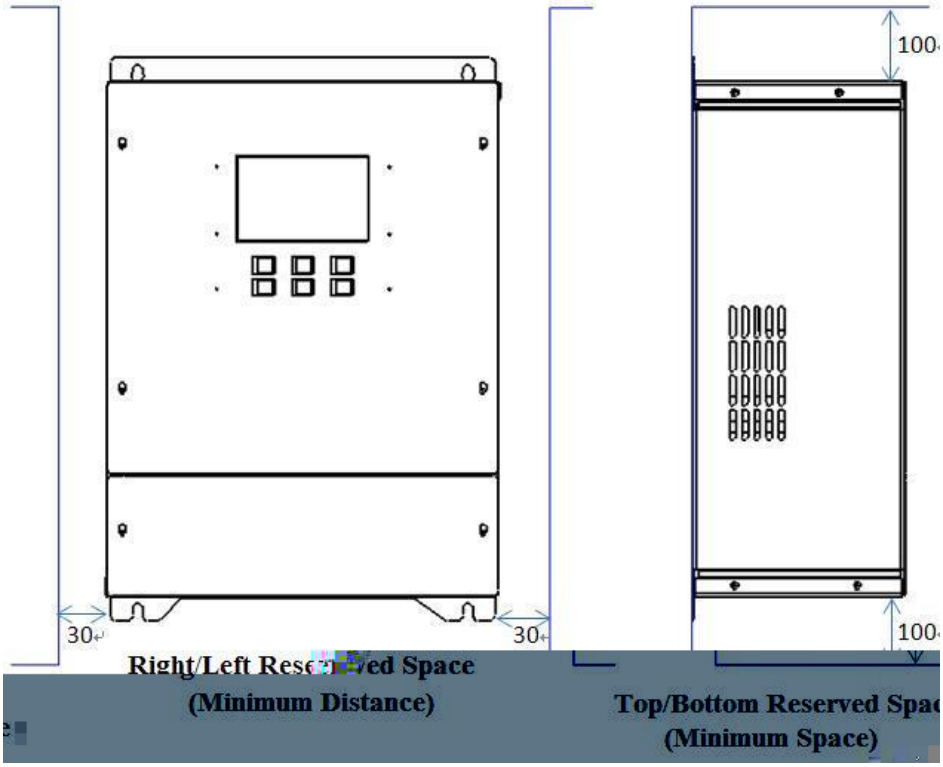

Figure2.5 Installation Orientation and Space

Chapter 3 Wiring

3.1. Main circuit terminal

CHART 3.1 MAIN CIRCUIT TERMINAL DEFINITION & FUNCTION

Terminal Symbol	Terminal name	Function Instruction
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3.2. Main circuit wiring

3.2.1. Main circuit structure

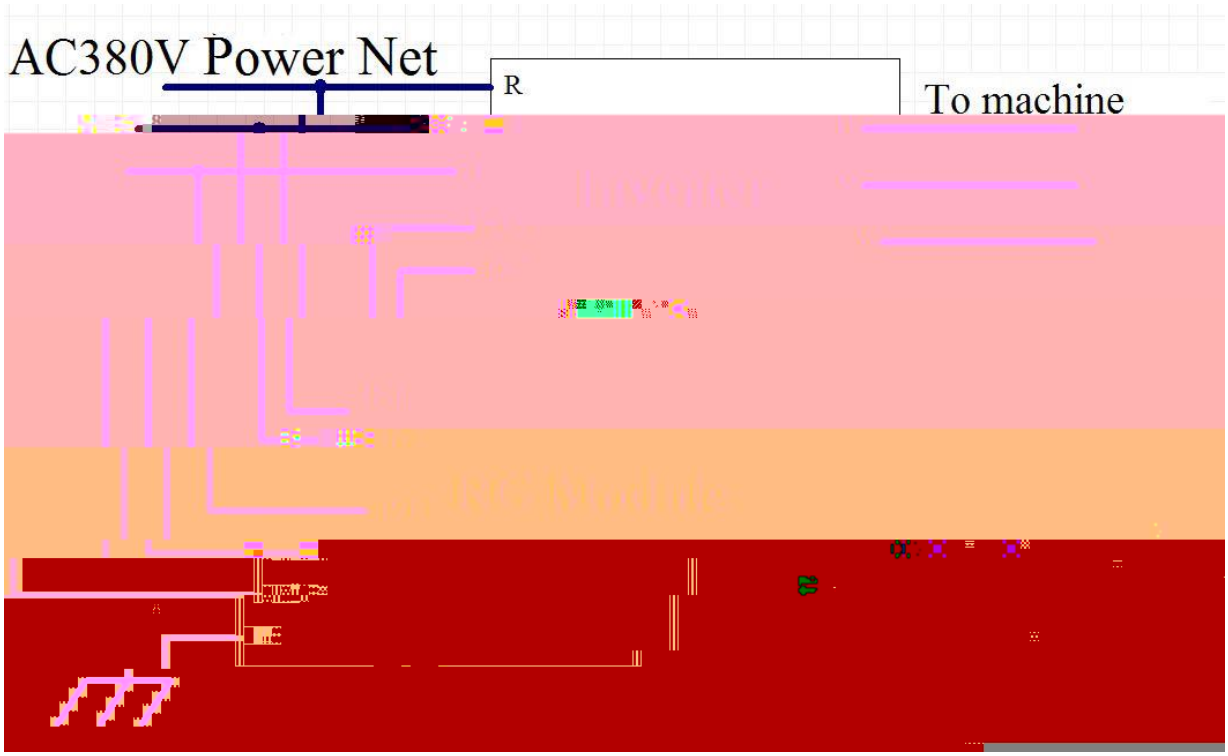


Figure3.1 Diagram of main circuit

3.2.2. Specifications for main circuit wiring

CHART 3.2 WIRE SIZE AND CLAMP TORQUE FOR MAIN CIRCUIT WIRING

Model	Terminal Symbol	Screws	Clamping Torque N·m	Wire size (min) mm^2	Wire size (Rec) mm^2	Wire type
RG4015						
RG4030						
RG4037						
RG4045						
RG4055						
RG4075						

3.2.3. Main circuit wiring

3.2.5.1 WIRING OF MAIN CIRCUIT INPUT

3.2.5.2 WIRING OF MAIN CIRCUIT OUTPUT

3.3. Assistant Contact

3.3.1. Definition of Assistant Contact

Chart3.3 Definition of assistant contact

Contact Symbol	Contact Name	Function Description
X+	Positive polar input of feedback enable	Judge if enable feedback or not through external power, connect to positive polar of the power
X-	Negative polar input of feedback enable	Judge if enable feedback or not through external power,connect to negative polar of the power
Y1	Feedback status output 1	Relay contact. It will adhere when RG module start to work in feedback status, and will break when standby
Y2	Error output 2	Relay contact. It will keep open when RG module works normally, and will adhere when error
COM	Common contact	Common terminal of output relay

3.3.2 Wiring of Assistant Contact

3.3.2.1 INPUT CONTACT

3.3.2.2 OUTPUT CONTACT

3.3.3 Parameters of assistant contact

Chart3.4 Parameters of assistant contact

Terminal Symbol	Definition	Usage	Interface Tech Spec			
			Interface type	Rated Capacity	On/off time	Max Speed
X+						
X-						
Y1						
Y2						
COM						

3.4. Precautions with wiring

Chapter 4 LCD Operation Interface

4.1. Composition & Display & Function

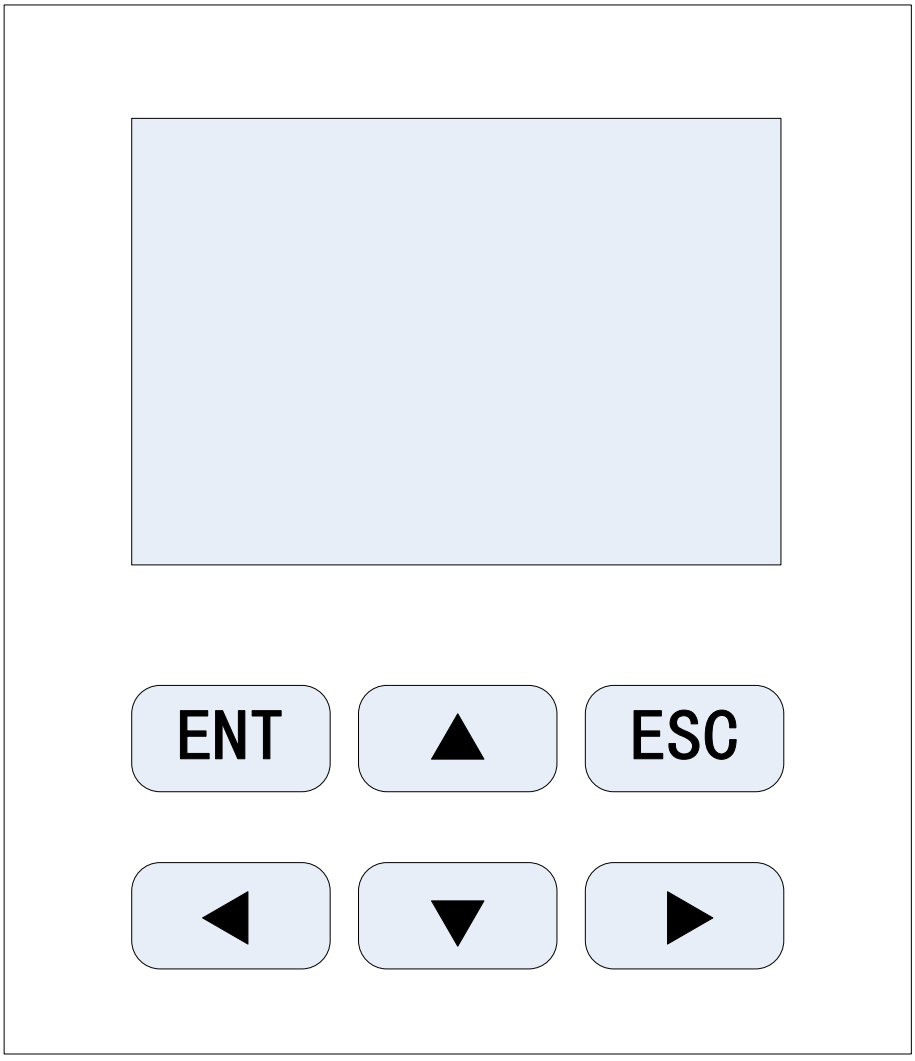


Figure 4.1 Appearance Diagram of LCD operation interface

4.1.1. Operation Button

Chart4.1 Definition and Function of the buttons

Button	Definition	Function
	~ –	
	~ –	
▲	~ –	
▼	~ –	
◀	~ –	
	~ –	

4.1.2. LCD display

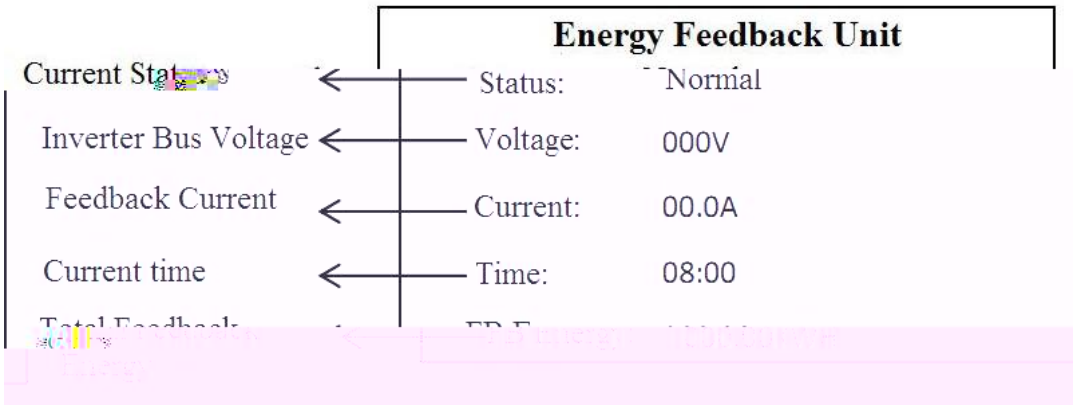


Figure4.2 Main menu of LCD display panel

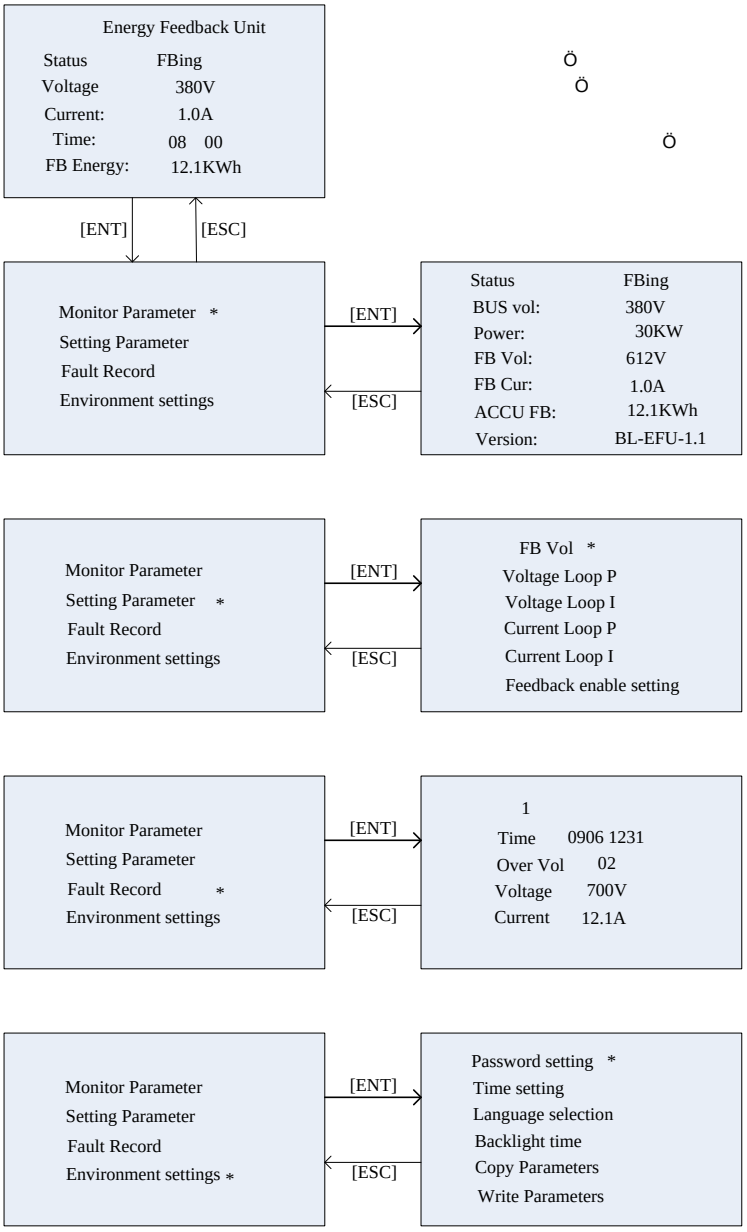


Figure4.3 The structure and switch process of LCD

4.3. Paramter setting

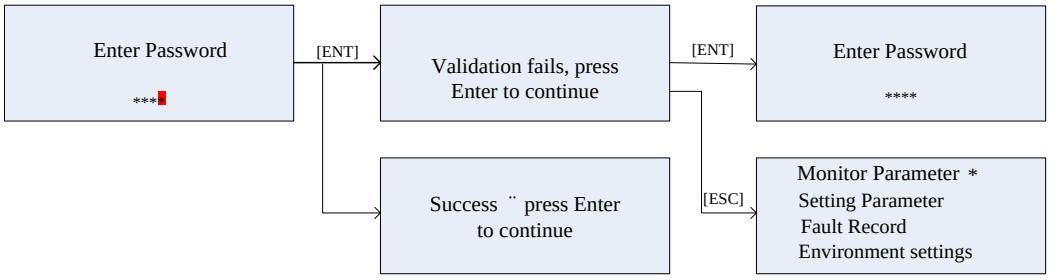
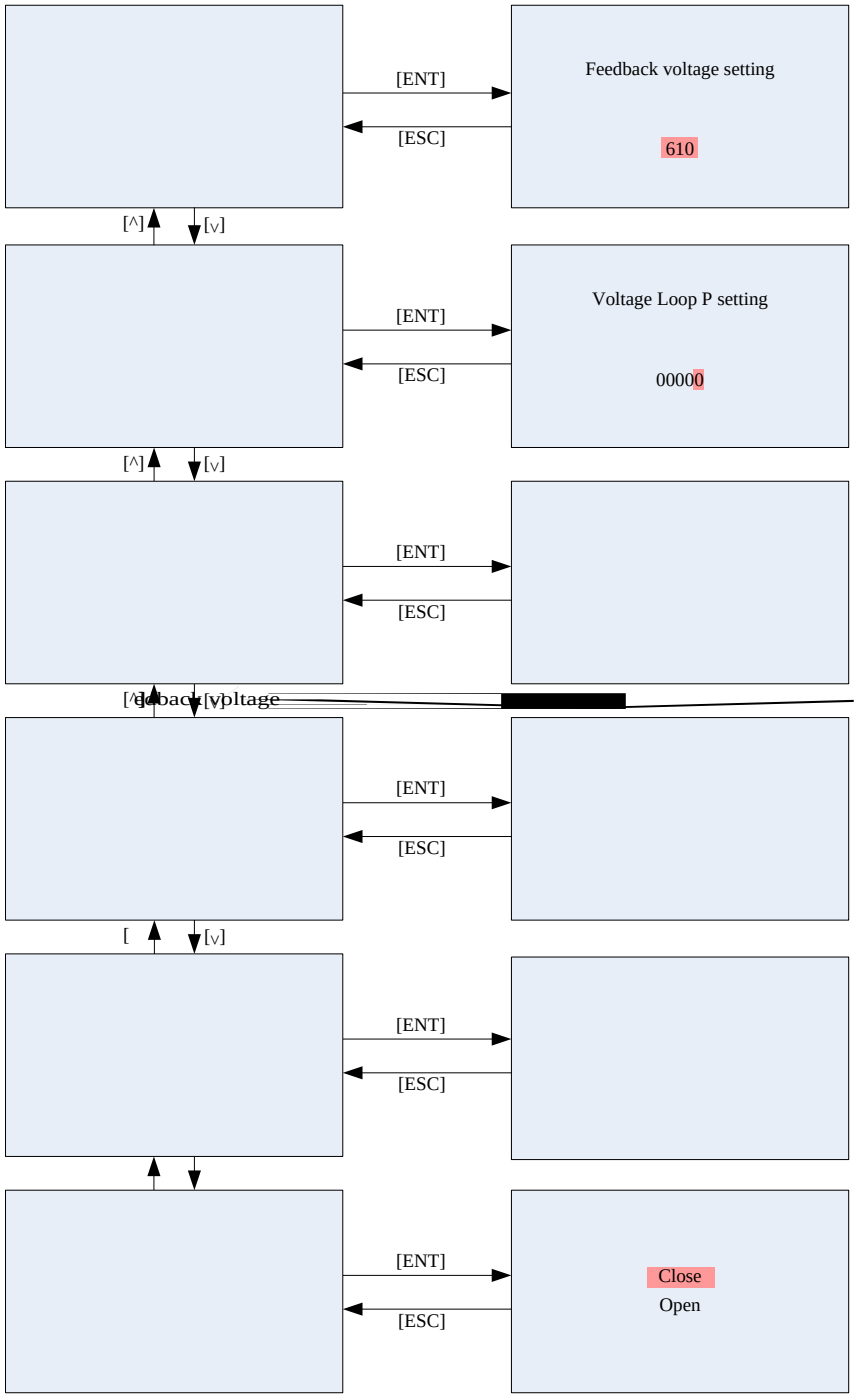


Figure4.4 Password validation


[ENT]
[ESC]
Feedback voltage setting
610
[^]
[v]
[ENT]
[ESC]
Voltage Loop P setting
00000
[^]
[v]
[ENT]
[ESC]
[ENT]
[ESC]
[v]
[ENT]
[ESC]
[ENT]
[ESC]
Close
Open

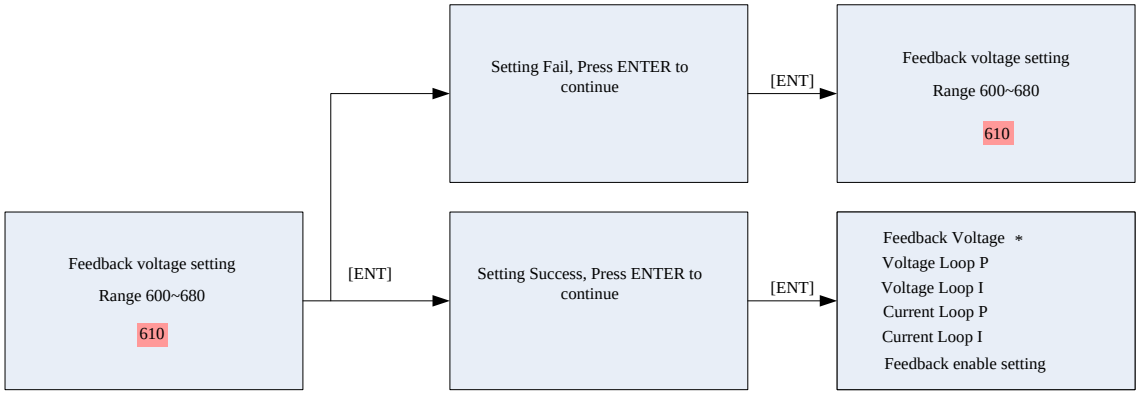


Figure4.5 Parameter setting interface

4.4. Enviroment setting

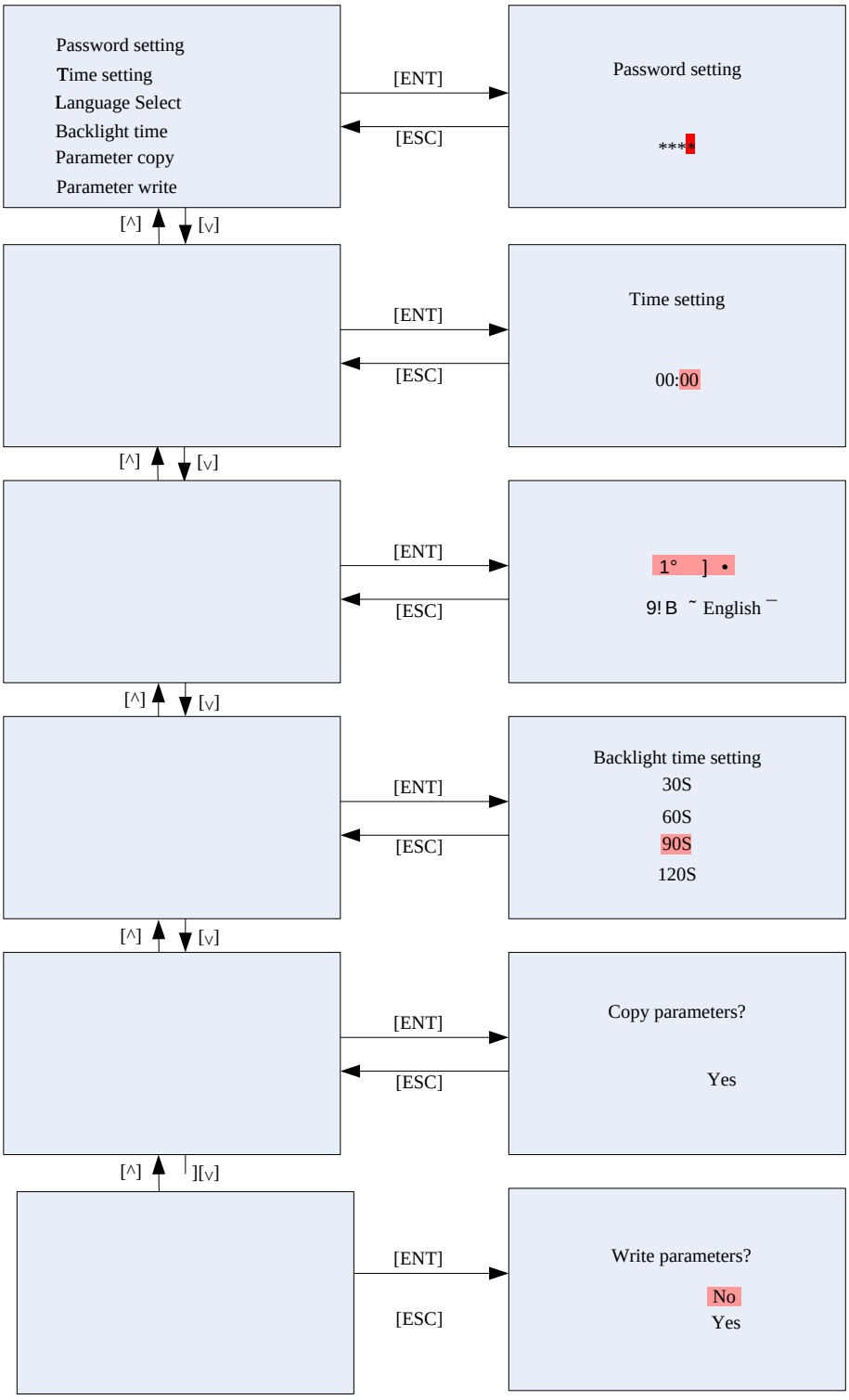


Figure4.6 Enviroment setting interface

4.5. Fault Record

Figure4.2 Fault diagnosis and treatment

Fault name	Reason	Treatment

5.2.2 Setting method of LCD panel

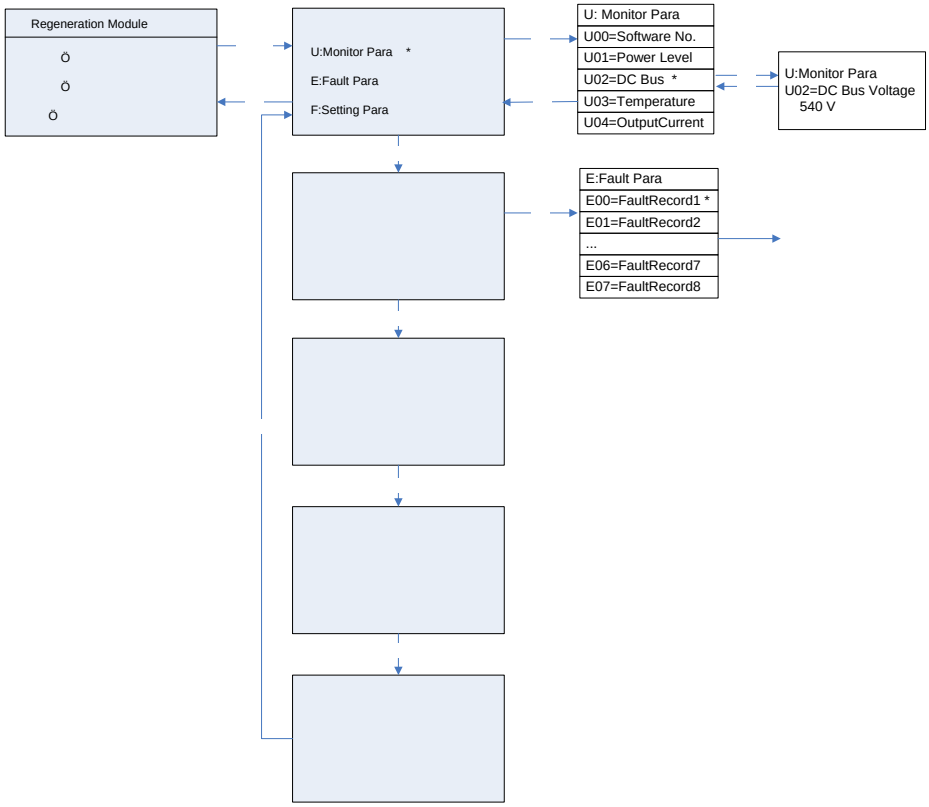


Figure 5.2 Setting method of LCD panel

Note The parameters in Monitor Para and Fault Para are read only, cannot be modified.

5.3 Setting Parameter Description

Chart 5.1 Setting parameter desciption

Parameter	Description	Range	Default Value

Note: After changing setting parameter, please enter to D:Debug Para->Save Para, perform save operation. Otherwise, the changed parameter will lose after power off.

Chapter 6 Maintenance

6.1 Safety Precautions for Drive Maintenance & Storage

6.2 Daily Check

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