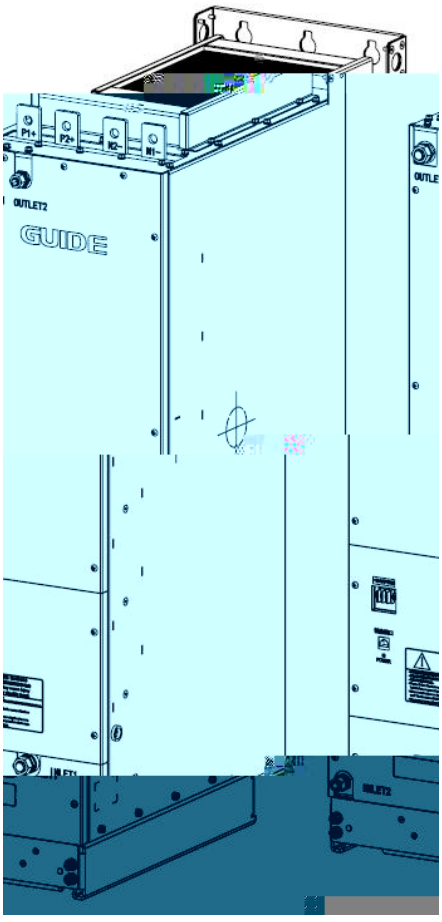
# HF680NLC

690V

1.00

Wuhan GUIDE Technology Co.,Ltd



RTG

1 . . . . . 10
1.1 . . . . . 10
1.2 . . . . . 12
1.3 . . . . . 13
1.3.1 . . . . . 13
1.4 . . . . . 14
1.5 . . . . . 15
1.6 . . . . . 15
2 . . . . . 16
2.1 . . . . . 16
2.2 . . . . . 16
2.3 . . . . . 17
2.4 . . . . . 18
2.4.1 . . . . . 18
2.4.2 . . . . . 18
3 . . . . . 19
3.1 . . . . . 19
3.2 . . . . . 21
3.2.1 . . . . . 5

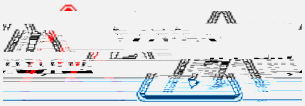
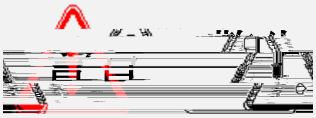
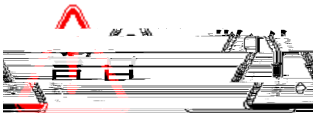
8.2 49
8.3 49
8.4 ..... 50
8.5 ..... 50

1

2

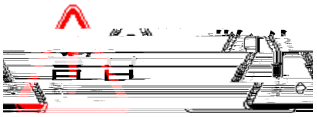
3 “ ” “ ” “ ”

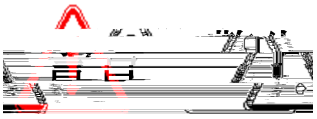
4

| |
|---|
|  |
| 10 |
|  |
| |
|  |
| , |
|  |

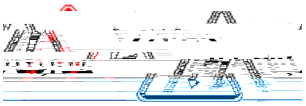
注意

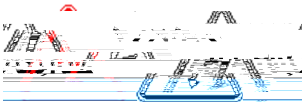
3

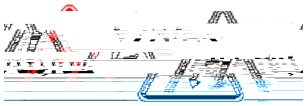


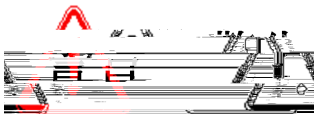


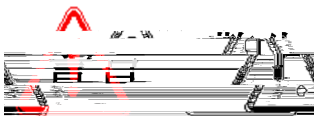
IEC

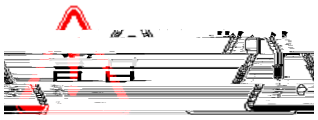












ī _ Q ઋ ɔ

**1**

RCD

RCM RCD

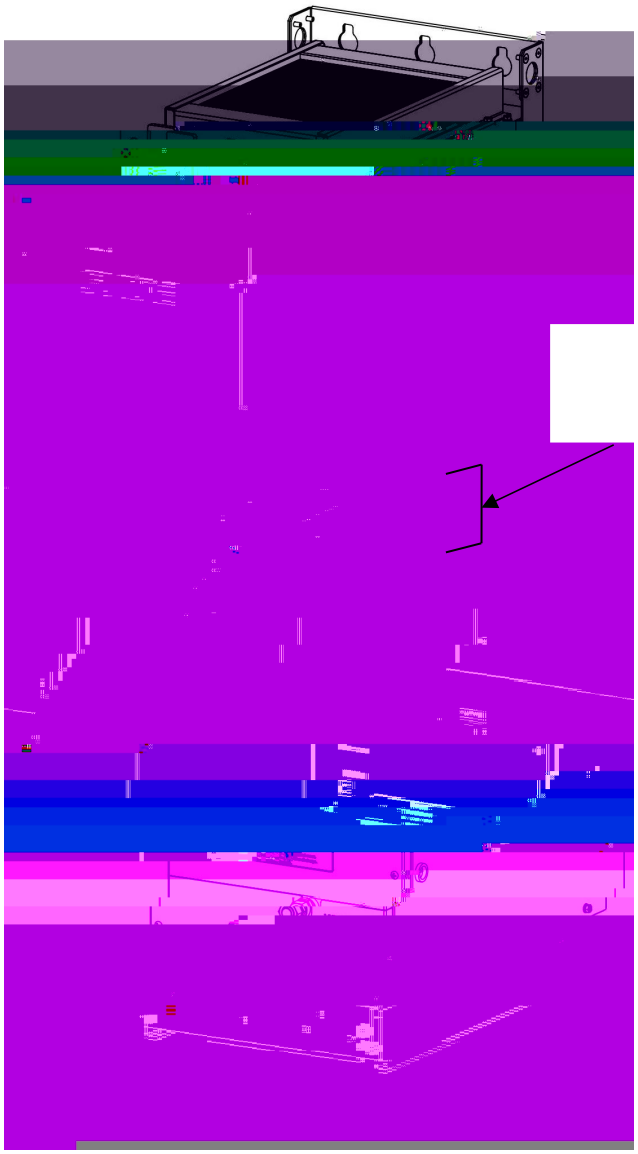
RCM

B RCD RCD

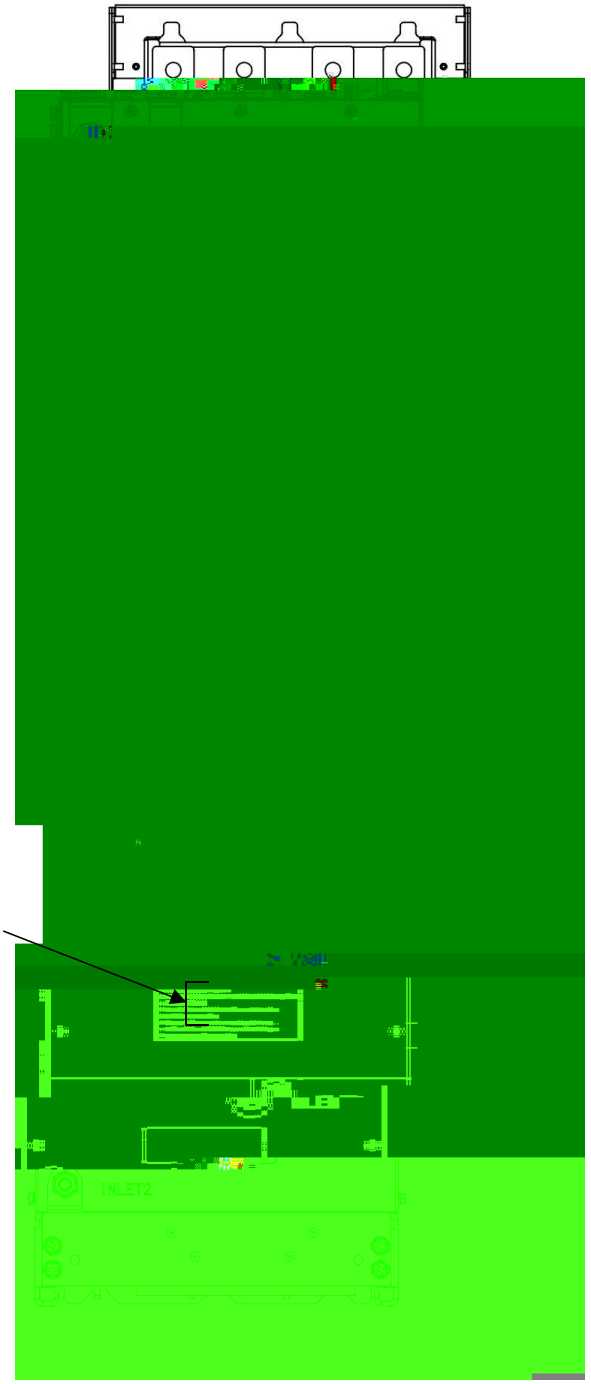
RCD RCD

**2**

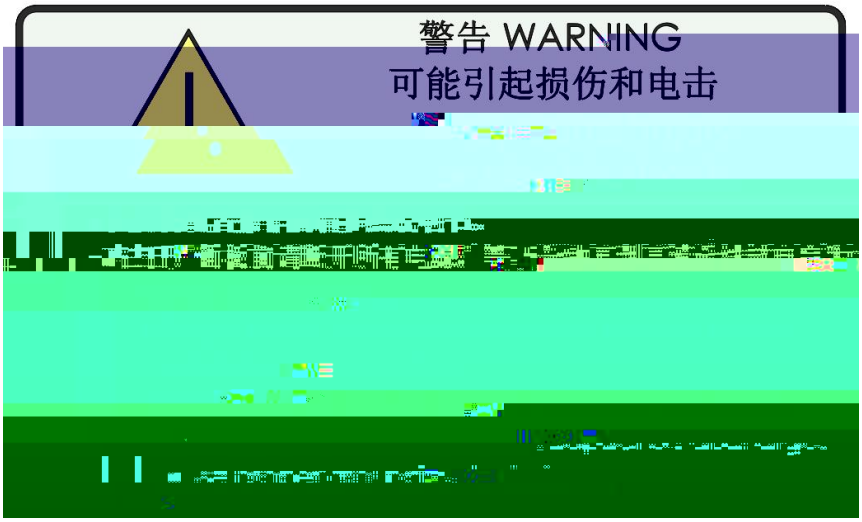
**3**



HF680NLC04M-1935-6




HF680NLC04M-1935-6




1.2

(1) (SCR: Silicon Controlled Rectifler)

(2)

(3)

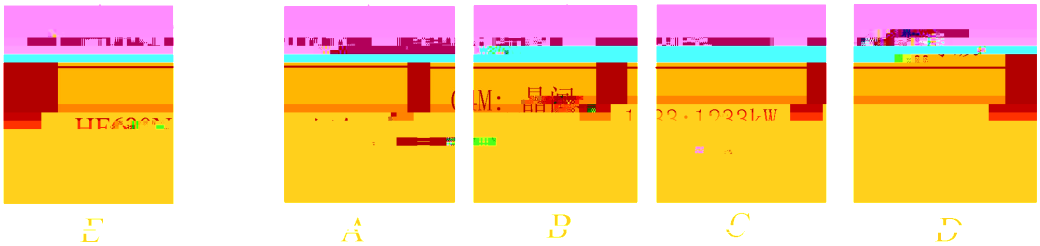
(4)

| | | |
|---|---|---|
| LVD | 2014/35/EU | EN 61800-5-1 |
| EMC | 2014/30/EU | EN 61800-3 |

1.3

# 1

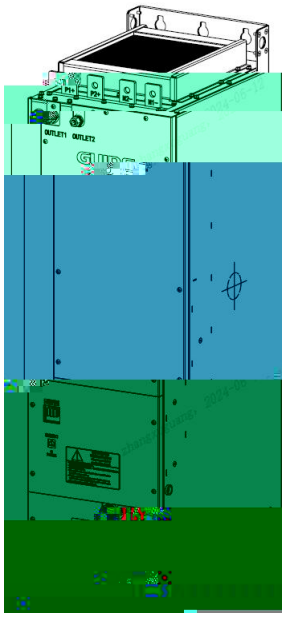
## 1.1

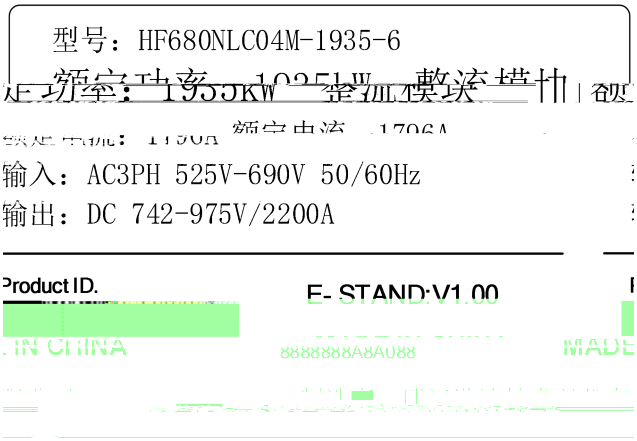


E A B C D

A HF680N

B - 5 m "






| | A AC | A DC | KW | KVA | A DC | A DC | |
|---|---|---|---|---|---|---|---|
| HF680NLC04M-1233-6 | 1143 | 1400 | 1233 | 1370 | 1344 | 1120 | P1 |
| HF680NLC04M-1935-6 | 1796 | 2200 | 1935 | 2150 | 2112 | 1760 | |

1 1935kW

2

3

4 LCD LCD

GDHF-AMBX1 MODBUS-RTU RS485

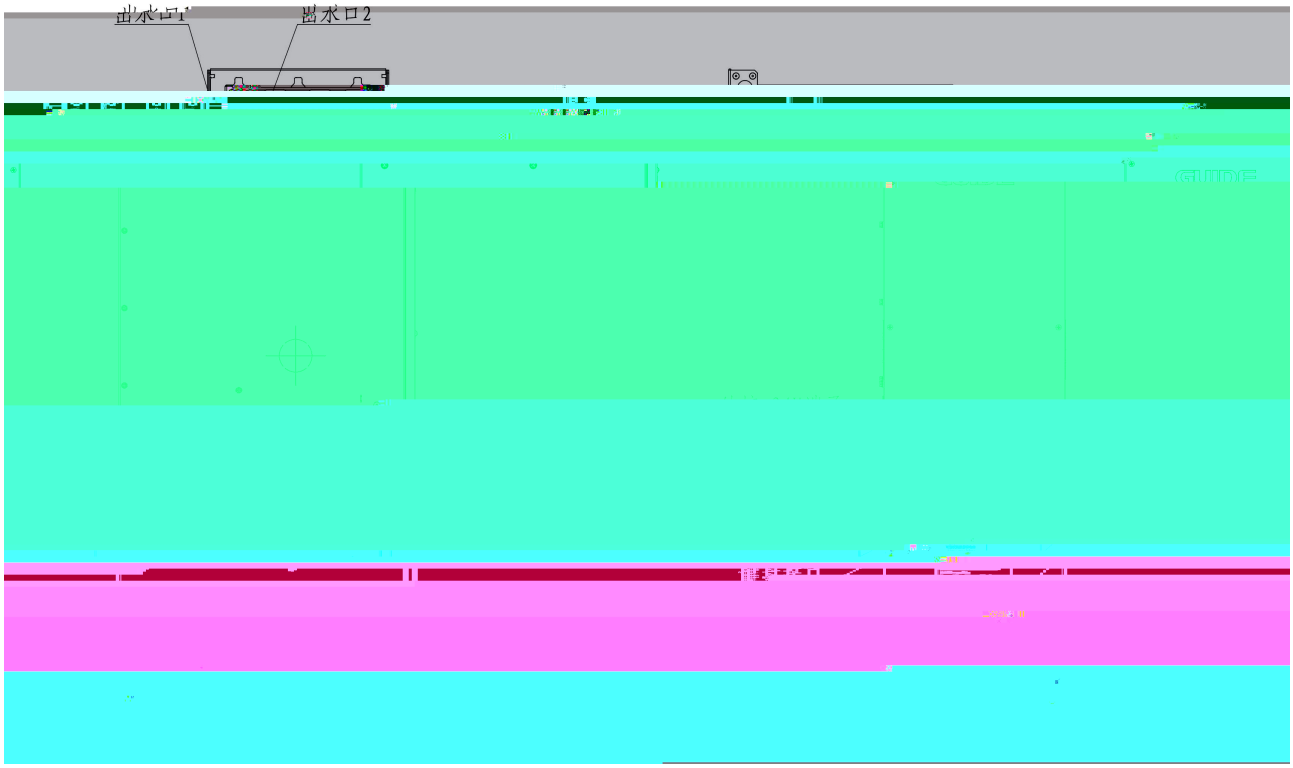
MB01 GDHF-AMBX1 MS485

| | | |
|---|---|---|
| PN | GDHF-APNX1 | GDHF-APNX1 Profinet RJ45<br>HF680NLC04M |
| | GDHF-AKZY1 | GDHF-AKZY1 LCD |
| 2 | 2.8*8.8 2 | 2.8*8.8 2 HF680NLC04M |

1 HF680NLC01M-1233-6+PN01 690V/1233kW Profinet

## 1.2

HF680NLC04M

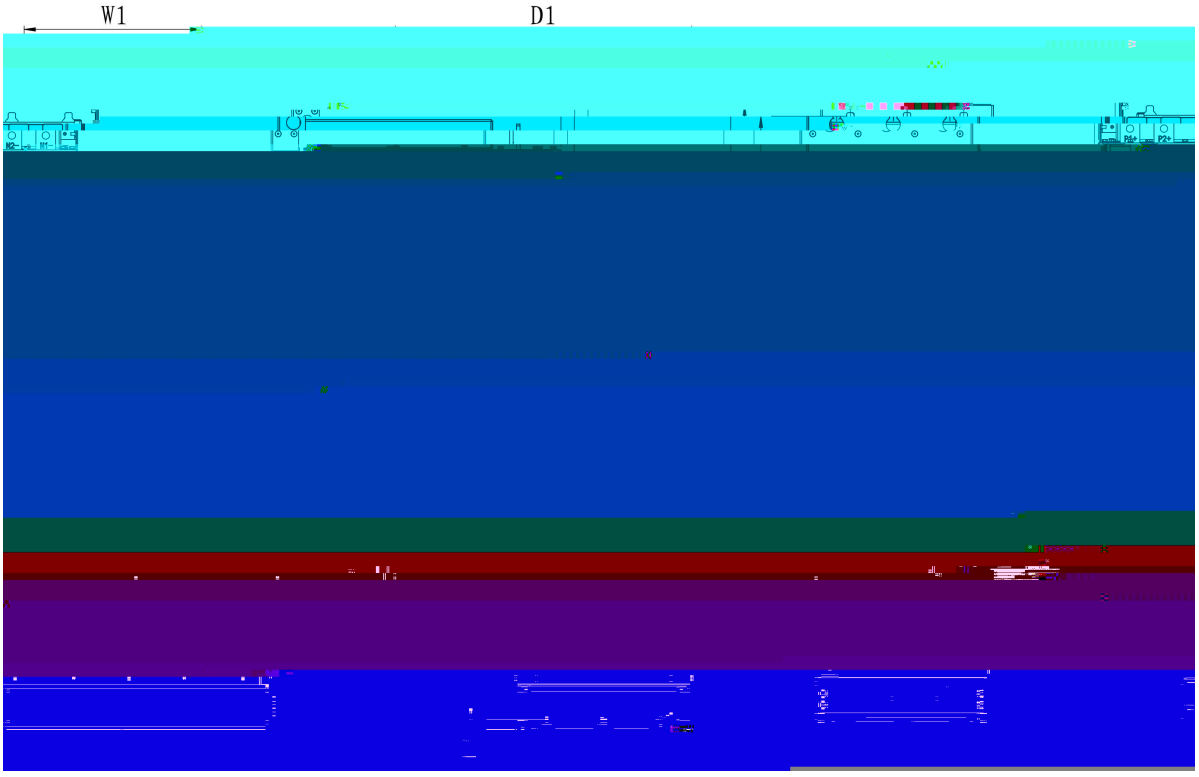



| | | | |
|---|---|---|---|
| | | | |
| | +24V | Ø3.2 | |
| 1 1 | | KFG2H1613-03 | SMC |

| | | | | |
|---|---|---|---|---|
| 1 | 1 | T1613W | SMC | |
| 2 | 2 | KFG2H1209-03 | SMC | |
| 2 | 2 | T1209W | SMC | |

## 1.3

### 1.3.1




| | mm | | | | | mm | | 8.8 | kg |
|---|---|---|---|---|---|---|---|---|---|
| | H1 | W1 | W2 | D1 | D2 | A | B | | |
| HF680NLC03C-1233-6 | 1100 | 320 | 307 | 525 | 500 | 1064 | 200 | 6-φ13 | 6-M12 | 260 |
| HF680NLC03C-1935-6 | | | | | | | | | |

## 1.4

## 2.3

## 2.4

### 2.4.1

| | A | / mm² | A | A |
|---|---|---|---|---|
| HF680NLC04M-1233-6 | 1250 | 500*2 | 1250 | 1800 |
| HF680NLC04M-1935-6 | 2000 | 630*2 | 2000 | 3000 |

### 2.4.2

mm² AWG

* L1 mm L2 mm Φd mm ΦD mm

3

1. /  “  ”

/

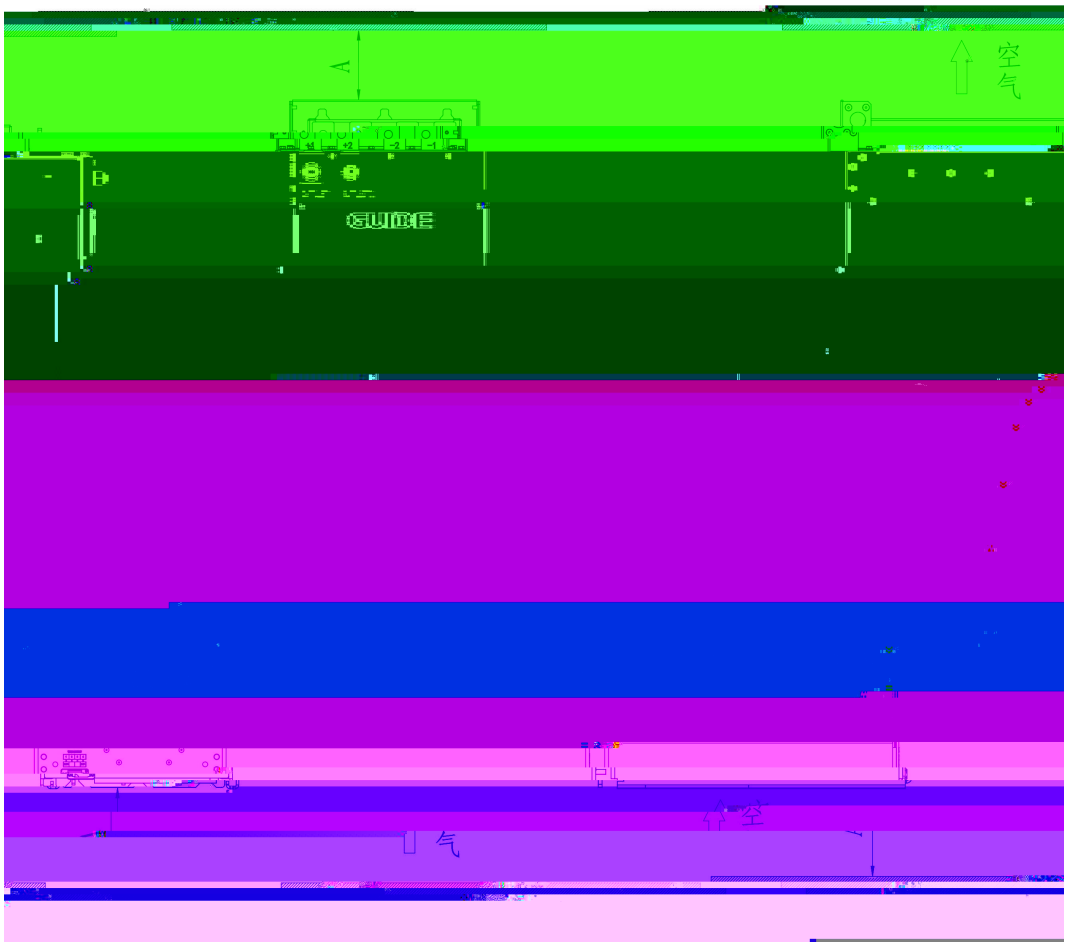
2.

30 õ  ( " ° ñ @ñ  Ð Ö i

| | | | |
|---|---|---|---|
| | -10 +40<br>40<br>1 1%<br>50<br>-10 | -20 +60<br>1 / | -20 +60 |
| | 70 106 kPa<br>0.7 1.05 | 70 106 kPa<br>0.7 1.05 | 60 106 kPa<br>0.6 1.05 |
| | 10Hz ≤ f ≤ 57Hz<br>0.075mm<br>57Hz ≤ f ≤ 150Hz<br>9.8 m/s² | 10Hz ≤ f ≤ 57Hz<br>0.075mm<br>57Hz ≤ f ≤ 150Hz 9.8<br>m/s² | I I |
| | | 100m/s² 11ms | 100m/s² 11ms |
| | | 250mm <100kg<br>100mm ≥ 100kg | 250mm <100kg<br>100mm ≥ 100kg |
| | 95%RH | | |
| | 1000 1000 100 1%<br>3000 | | |
| | 2 | | |
| | | | |

## 3.2

### 3.2.1



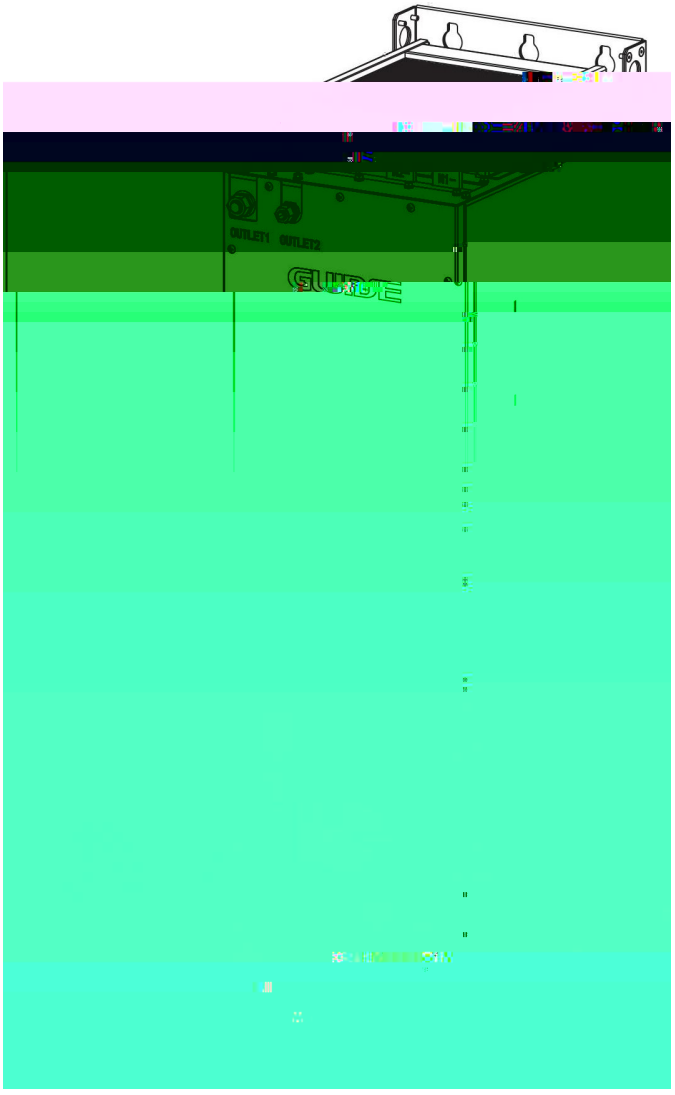

| | |
|---|---|
| | A ≥ 250mm |

50mm

### 3.2.2

M 1

H 2




HF680NLC04M-1935-6

### 3.2.3

м 4 2

н 2 1

о

п 4 3 4

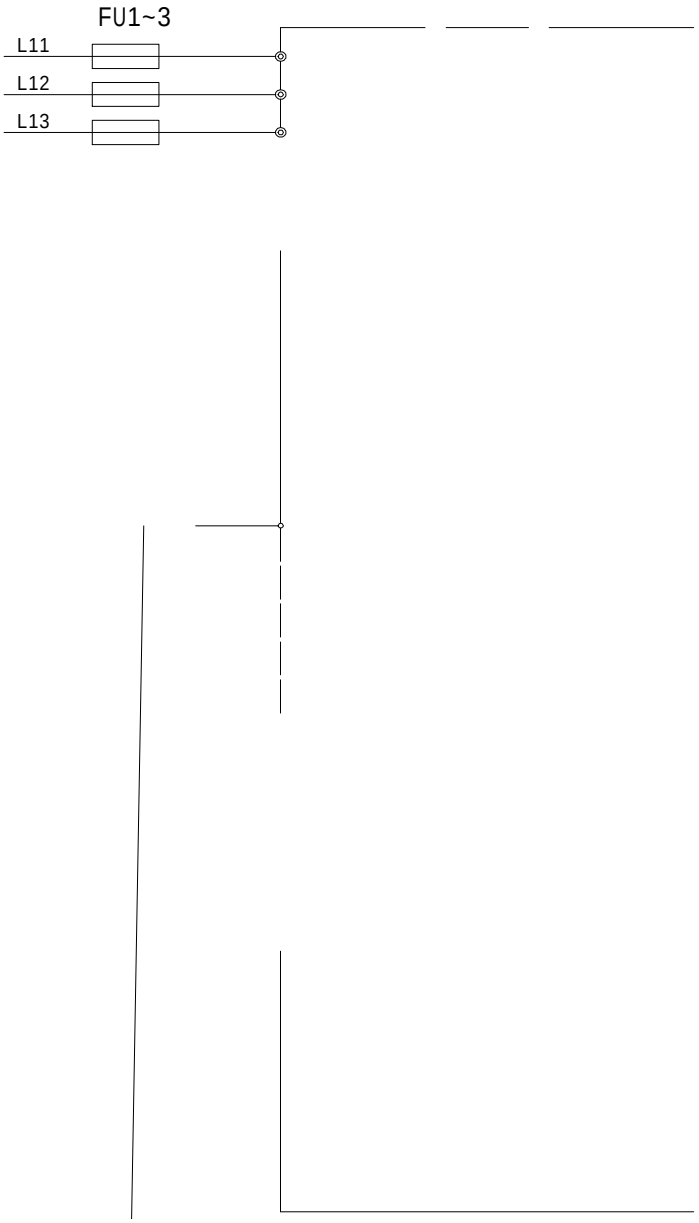
р



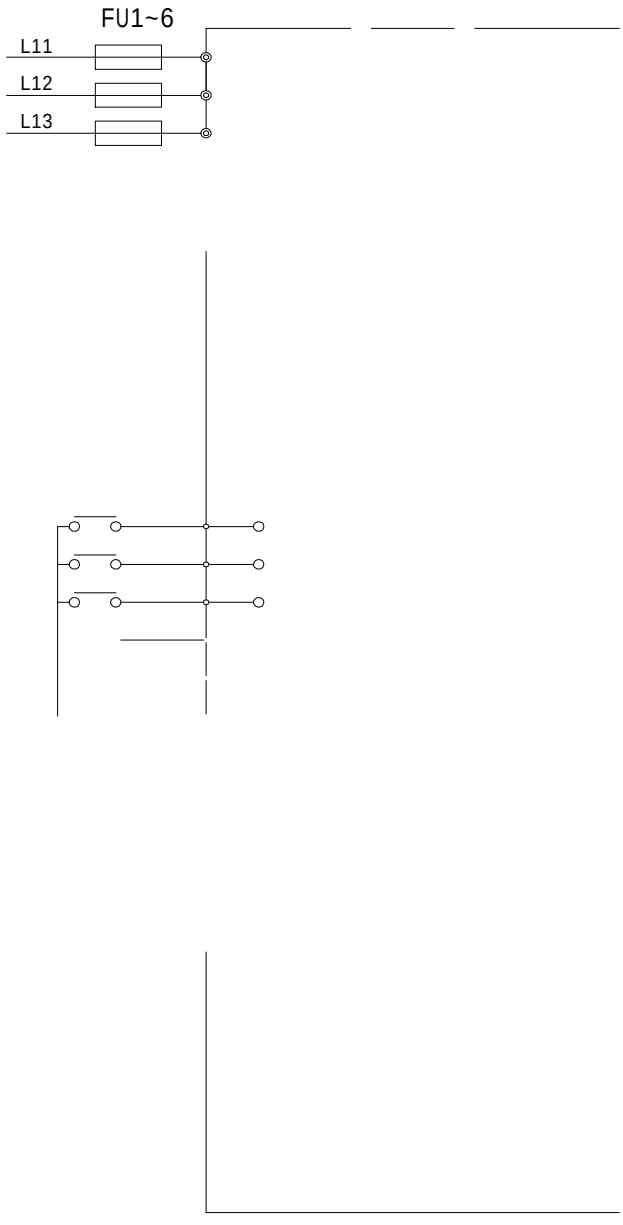
## 3.3

### 3.3.1

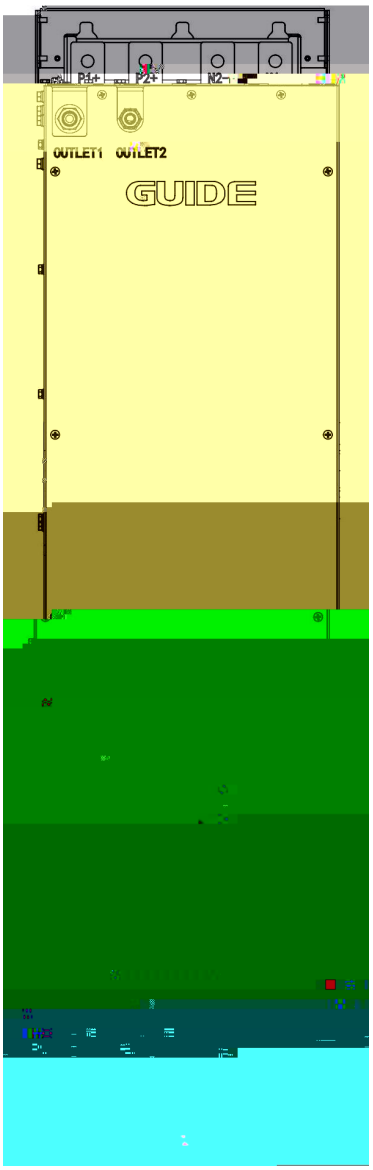
6



12



### 3.3.2




| | |
|---|---|
| P1+ P2+ | |
| N1- N2- | |
| R1 R2 S1 S2 T1 T2 | |
| PE | |

### 3.3.3

| | | |
|---|---|---|
| 1 | | |
| 2 | 10 | |
| 3 | | |
| 4 | 10cm | |
| 5 | 0.75mm² 50m | |
| 6 | 10cm | |
| 7 | | |
| 8 | | |

### 3.3.4

| | | | |
|---|---|---|---|
| | +10V-GND | 10V | +10V 50mA 1kΩ~5kΩ |
| | +24V-COM | 24V | +24V 200mA |
| | PW | | 24V DI1~DI5 DO1 PW 24V |
| | AI1-GND | 1 | DC -10V~10V 100kΩ |
| | AI2-GND | 2 | -10VDC~10VDC/0mA~20mA J1 |

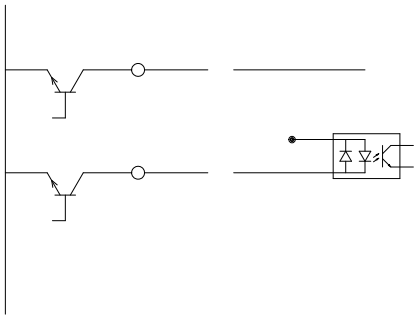
100kΩ

500Ω

| | | |
|---|---|---|
| DI1- PW | 1 | |
| DI2- PW | 2 | 3.3kΩ |
| DI3- PW | 3 | 9V~30V DI1-DI4 |
| DI4- PW | 4 | 500Hz DI5 20KHz |
| DI5- PW | 5 | |

J2

| | | |
|---|---|---|
| AO1-GND | 1 | 0V~10V<br>0mA~20mA |
| DO1-PW | 1 | 0V~24V<br>0mA~50mA |
| DO4A-DO4C | 1 | |
| DO4B-DO4C C 4 | | 250VAC 3A<br>30VDC 1A |



## 4

HF680NLC04M F1

LOCAL/REMOTE F2 RUN STOP /RESET ENTER



## 4.1

▼

▲

ENTER /RESET

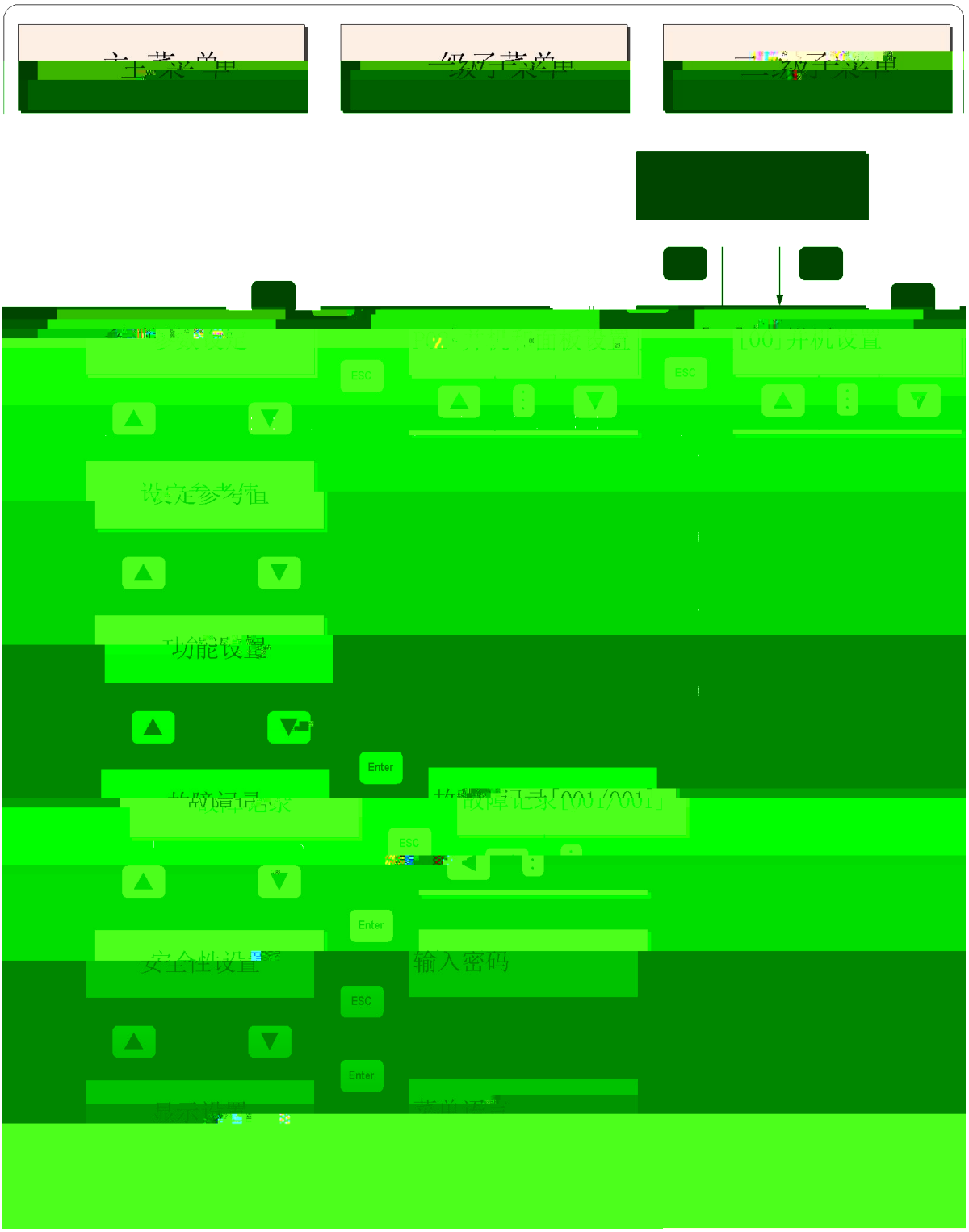
RUN

STOP LOCAL/REMOTE

/

## 4.2

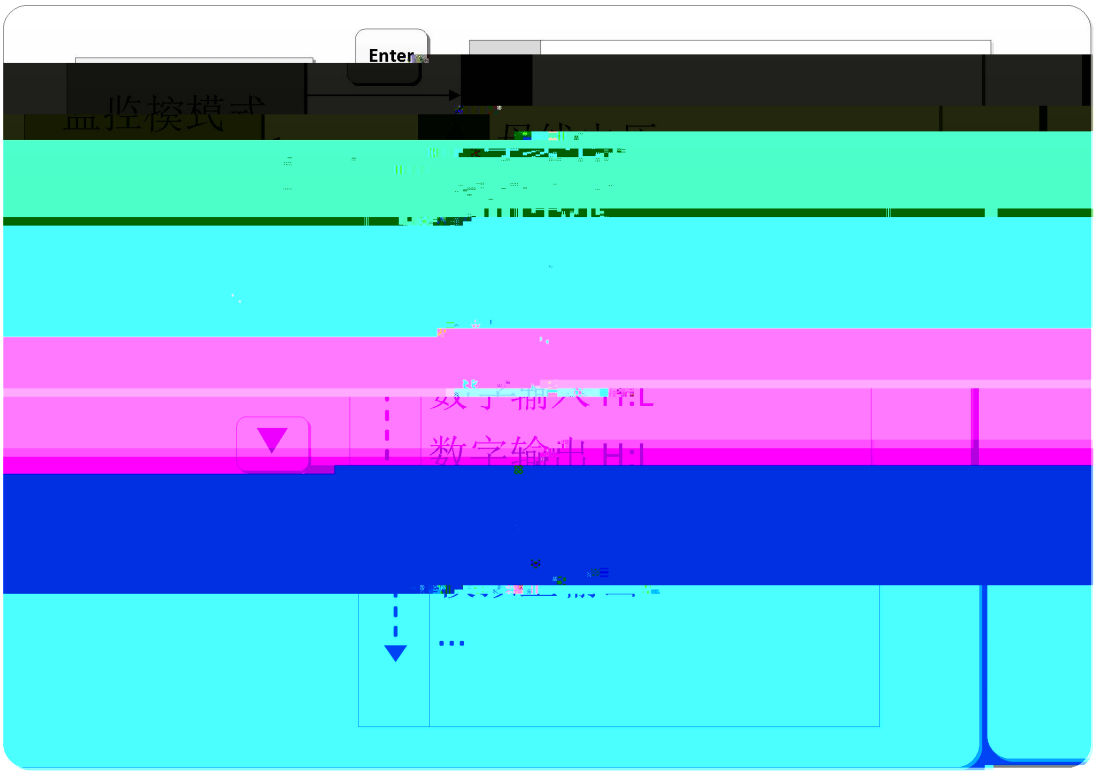
| | | |
|---|---|---|
| Drive Monitor | Speed Power | I/O |
| Parameter Edit | P0 ~ P49 | |
| Function Set | System reset Backup<br>Restore Para | |
| Error Event Log | Error Log | |
| Security | Security Edit | Access Level |
| Display Edit | Display Edit | |


ESC
设定参考值
功能设置
Enter
故障记录
ESC
Enter
安全性设置
输入密码
ESC
Enter

## 4.3

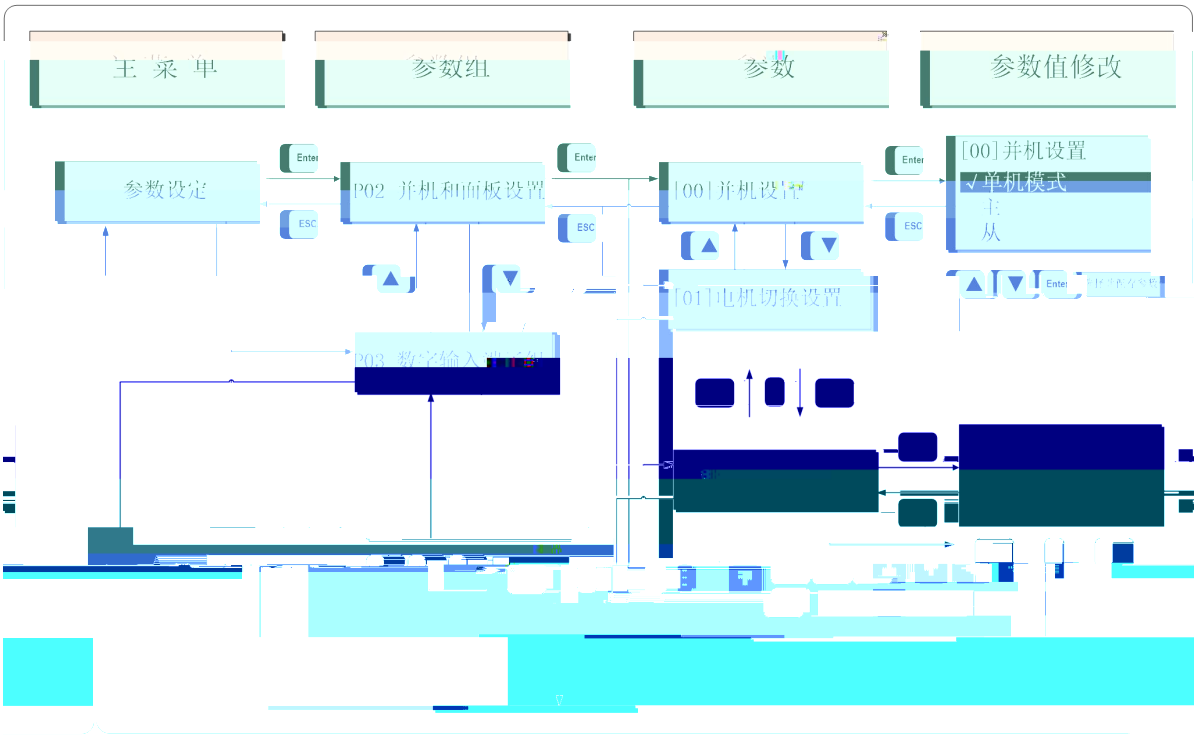
1 Drive Monitor

(I/O)




| | | | |
|---|---|---|---|
| | | V | |
| | | V | |
| | | kW | |
| | H:L | | |
| | H:L | | |
| | 1 | % | 1 |
| | 2 | % | 2 |
| 1 | | V | 1 |
| 1 | | A | 1 |
| 2 | | V | 2 |
| 2 | | A | 2 |
| | | V | |
| A | | A | A |
| B | | A | B |
| C | | A | C |
| | | A | |

2 Parameter Edit



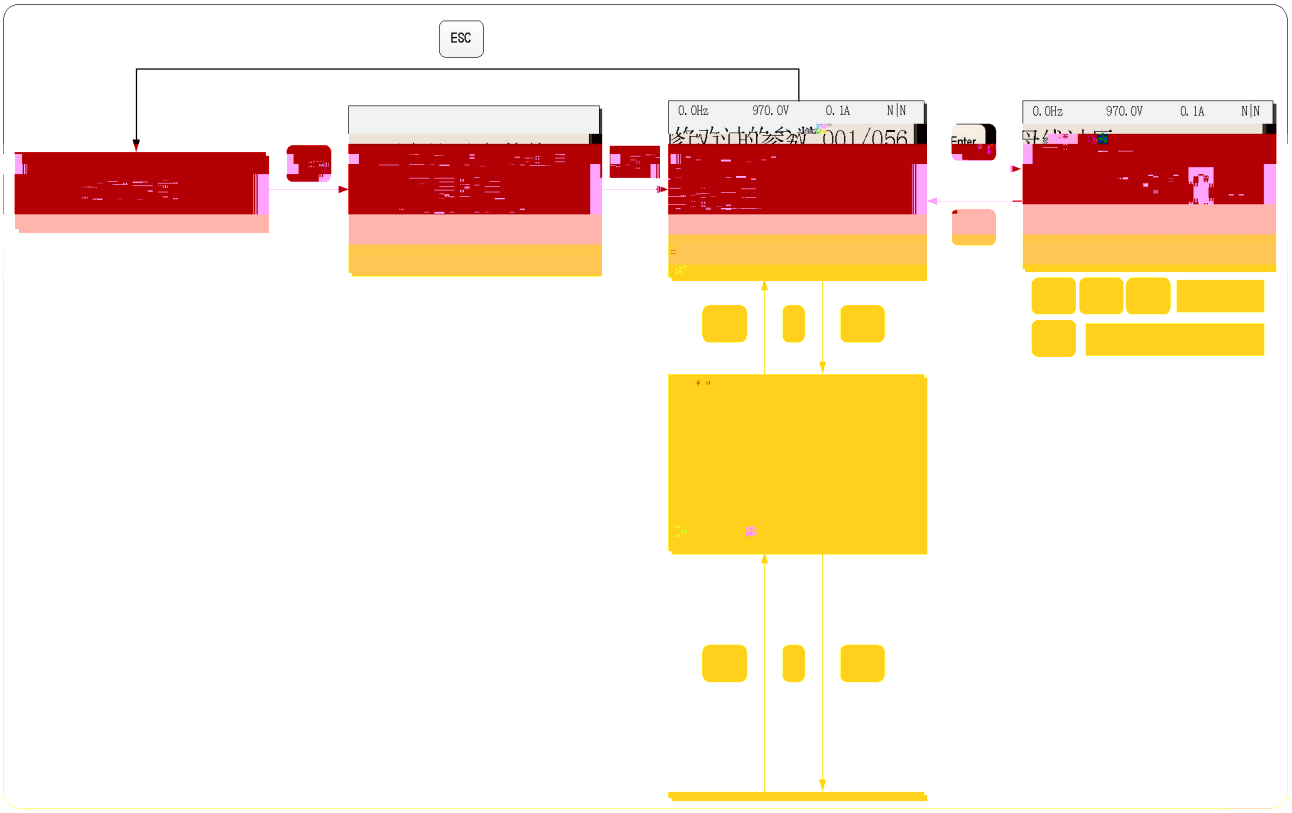

3 Function Set

Function Set

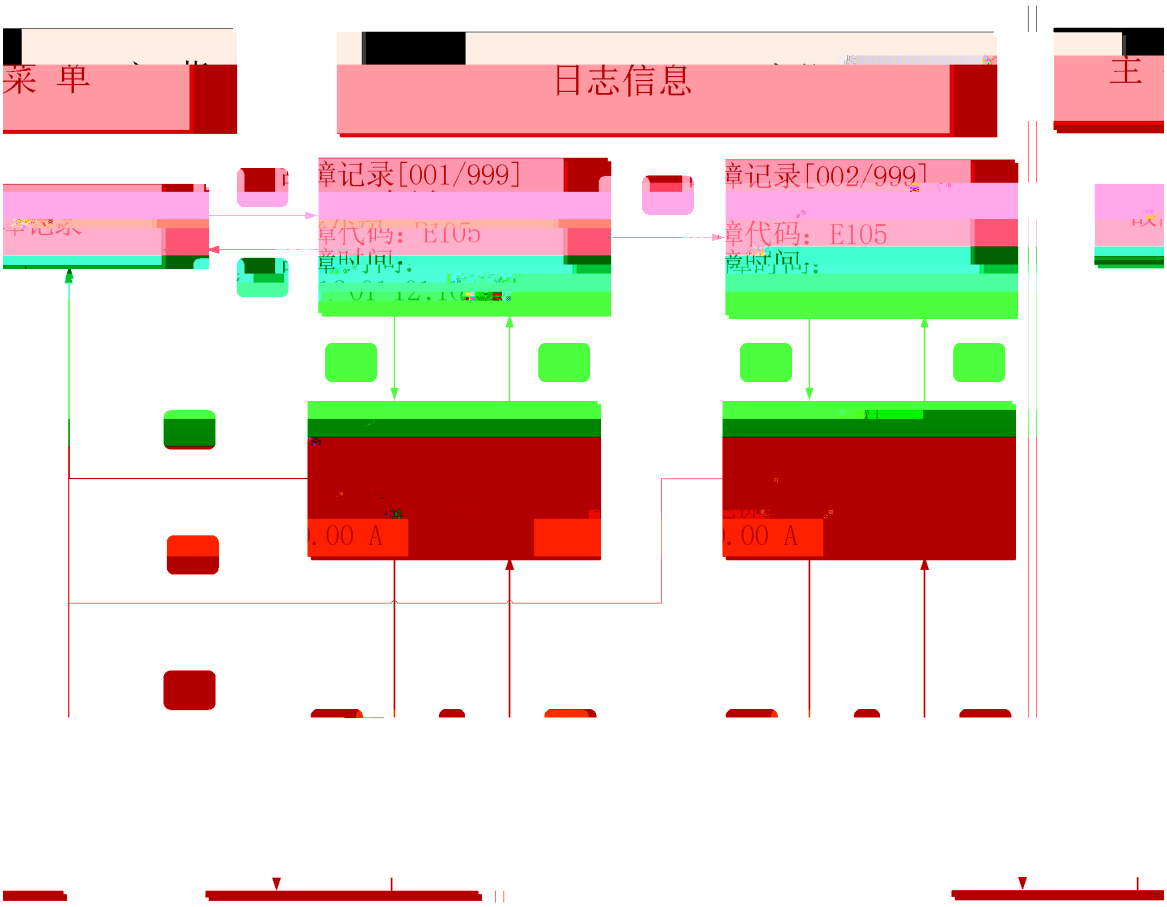
| | | |
|---|---|---|
| Function Set | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |


Enter
输入密码

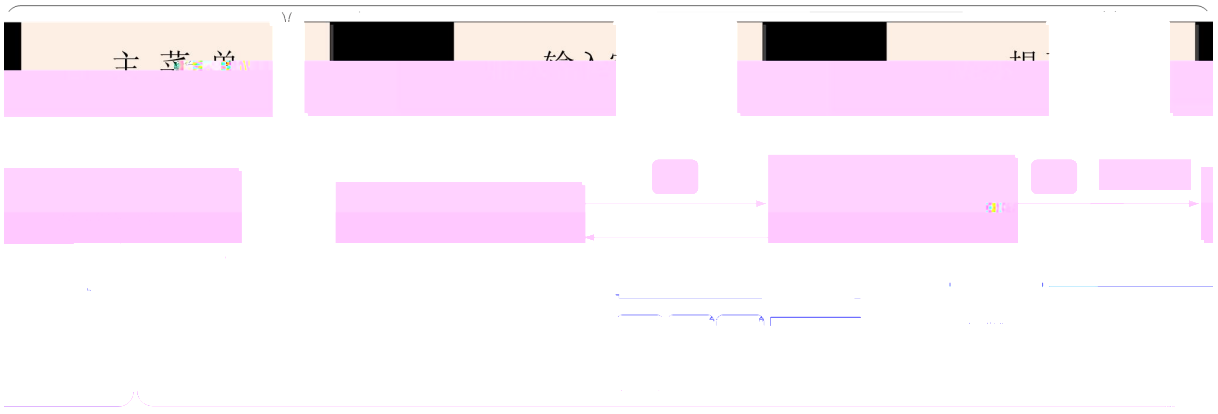
▼ ▲ “Enter”



4 Error Event Log

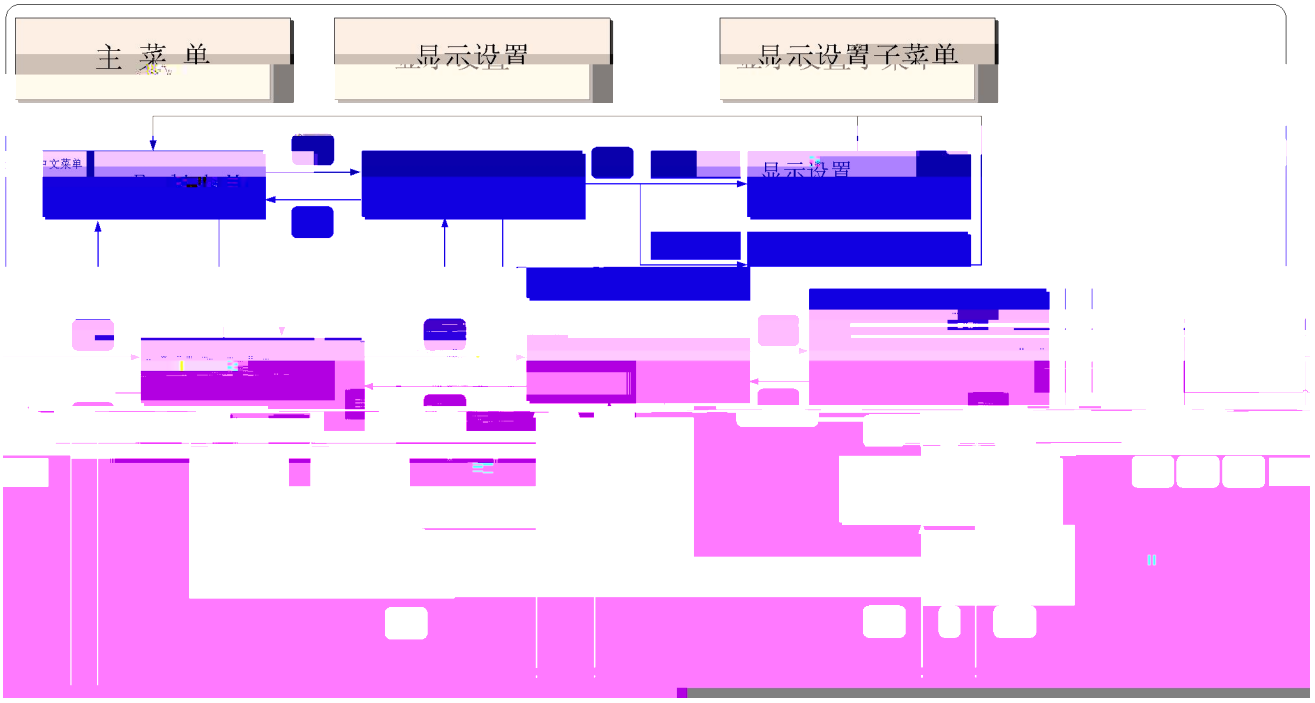


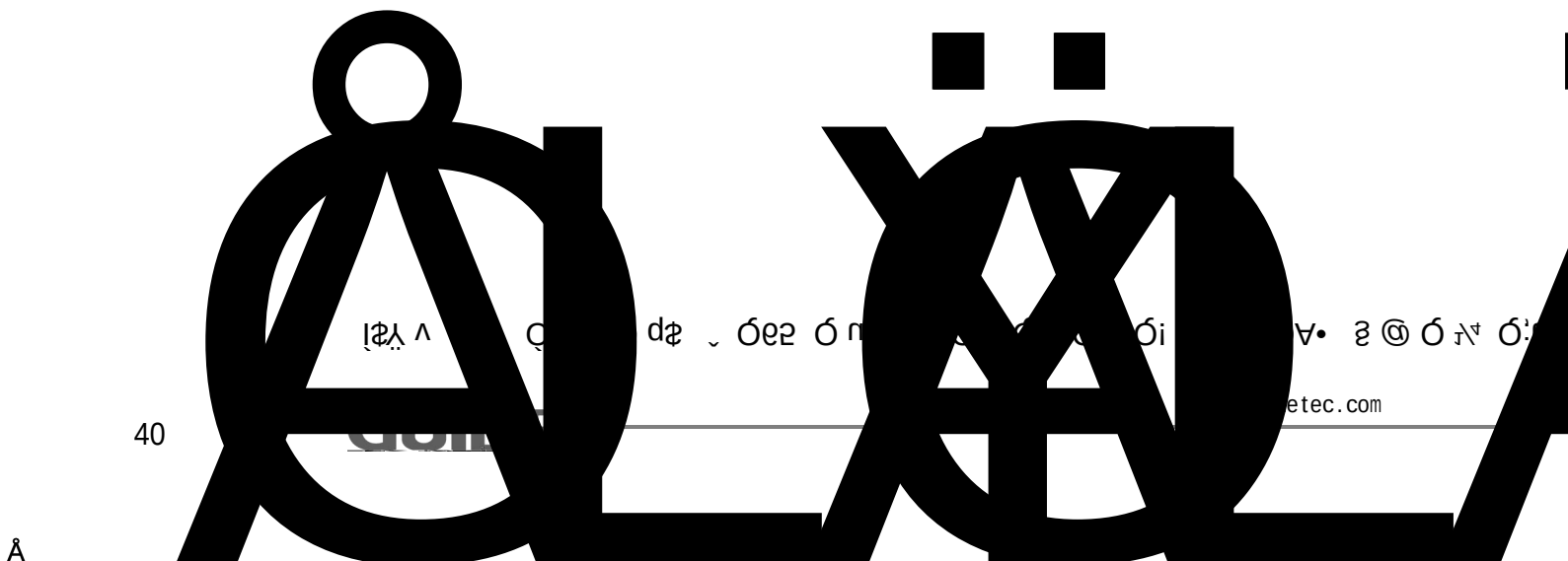
5 Security



| | | |
|---|---|---|
| | | |

6 Display Setting





# 5

## 5.1

DI1 DI2

DO5

1

690V 24V

P0.1 “ ” “ ”

690V

| | | |
|---|---|---|
| P3.0 | 1 | |
| P3.1 | 5 | |
| P4.3 DO4 | 1 | |
| P4.4 DO5 | 2 | |
| P16.11 | 5 | |
| P16.12 | 10 | |
| P16.0 | | |
| P24.4 | 0 | |

24V

690V “

AFE ” “ AFE ” 49.5~50.5Hz

DI1 *1.41

*1.41

P24.4

1

# 6

## 6.1

### 6.1.1

| | | | | | |
|---|---|---|---|---|---|
| P3.0 | 1 | | 0 32 | 1 | |
| P3.1 | 2 | | 0 32 | 2 | |
| P3.2 | 3 | | 0 32 | 5 | |
| P3.3 | 4 | | 0 32 | 6 | |
| P3.4 | 5 | | 0 32 | 7 | |
| P3.5 | 6 | | 0 32 | 8 | |
| P3.6 | 7 | | 0 32 | 0 | |
| P3.7 | 8 | | 0 32 | 0 | |

| | | |
|---|---|---|
| 0 | | |
| 1 | | |
| 5 | | </RST |
| 14 | | |
| 15 | .NC | |

### 6.1.2

| | | | | |
|---|---|---|---|---|
| P4.0 | 1 | 0 | 64 | 0 |
| P4.1 | 2 | 0 | 64 | 0 |
| P4.2 | 3 | 0 | 64 | 0 |
| P4.3 | 4 | 0 | 64 | 0 |
| P4.4 | 5 | | | |

| | | | | | |
|---|---|---|---|---|---|
| P7.50 | 2 | 2 | 0.0 300.0 [%] | 200.0 [%] | |
| P7.51 | 2 | 2 | 0.00 5.00 [s] | 5.00 [s] | |
| P7.95 | | | 0.0 20.0 [s] | 15.00 [s] | |

### 6.1.4

| | | | | | |
|---|---|---|---|---|---|
| P8.0 | | [0]<br>[1]<br>[2]DP<br>[3]MODBUS<br>[4] | 0 4 | 0 | |

### 6.1.5

| | | | | | |
|---|---|---|---|---|---|
| P16.0 | | | 580 800 [V] | 690 [V] | |
| P16.2 | | | 0.0 4000.0 [kW] | [kW] | |
| P16.4 | | | 0.0 6500.0 [A] | [A] | |
| P16.11 | | 5 | 0 5 | 0 | [5] |
| P16.12 | | 10K | 1~15 | 10 | 10K |

7

| | | | |
|---|---|---|---|
| W01 | SYS_NOT_RDY | (Ready) | |
| W02 | NO_DRV_ENABLE | [ ] | P3 |
| W03 | LOCAL_EM | [ ] | P3 |
| W04 | REMOTE_EM | [ ] | P3 |
| W06 | O.T | P7.14( ) | |
| W09 | DP P/B ALARM | DP | DP |

## 7.1

| | | |
|---|---|---|
| [E100] | OV | P7.12( ) |
| [E110] | OC | |
| | | P7.95 |
| [E139] | Pre_Charging Fail | P16.0 |
| [E140] | Line UV | P16.0 |
| [E141] | Line OPEN | |
| [E145] | Line OV | P16.0 |
| [E146] | | |

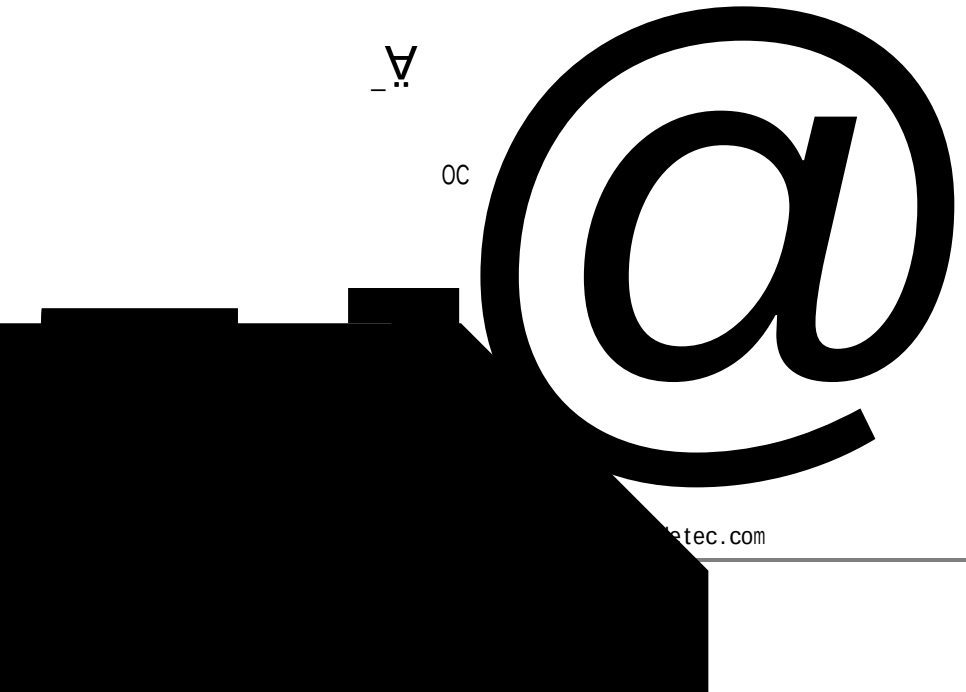
>(

_ ¨

OC

J

•



# 8

| |
|---|
|  |
| 1<br>2<br>3<br>4 |
|  |
| 1 CMOS<br>2<br>3 |

## 8.1

## 8.2

1.
2.

1.
2.

1. > 40
   < 95%
2.

1.
2.

## 8.4

5

1 40

2 80%

3 24 /

## 8.5

1

2

5

# HF680NLC

# 690V

1.00

1

2

3

Wuhan Guide Technology Co.,Ltd.

6

430223

86-027-87927230

shfw@gdetec.com

www.gdetec.com

400-0077-570

² dzKl·y´D ¦L59 ¢ŜŎKy⁄2f2∃è /2℠[úŘ