

## OVERVOLTAGE AND UNDERVOLTAGE PROTECTOR

## OVERVOLTAGE AND UNDERVOLTAGE PROTECTOR



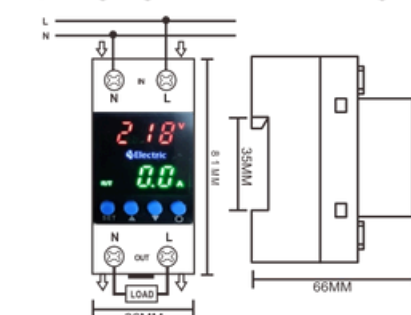
## Technical data

### ●Front-face panel

>V: Overvoltage Indicator  
<V: Undervoltage Indicator  
>A: Overcurrent Indicator  
POWER: Normal Working Indicator

Menu selection  
Digit+/Up  
Digit-/Down  
ON/OFF

### ●Wiring diagram/Dimensional Drawing



### After-sales Service

Thank you very much for choosing our products, our company wholeheartedly provides you with more excellent products

Warranty: 1 year (excluding man-made damage and natural disasters)  
Note: The product is not suitable for use in explosive and highly corrosive environments.

Auto Reconnect  
Adjustable  
Voltage Current  
Protector



## Instruction Manual

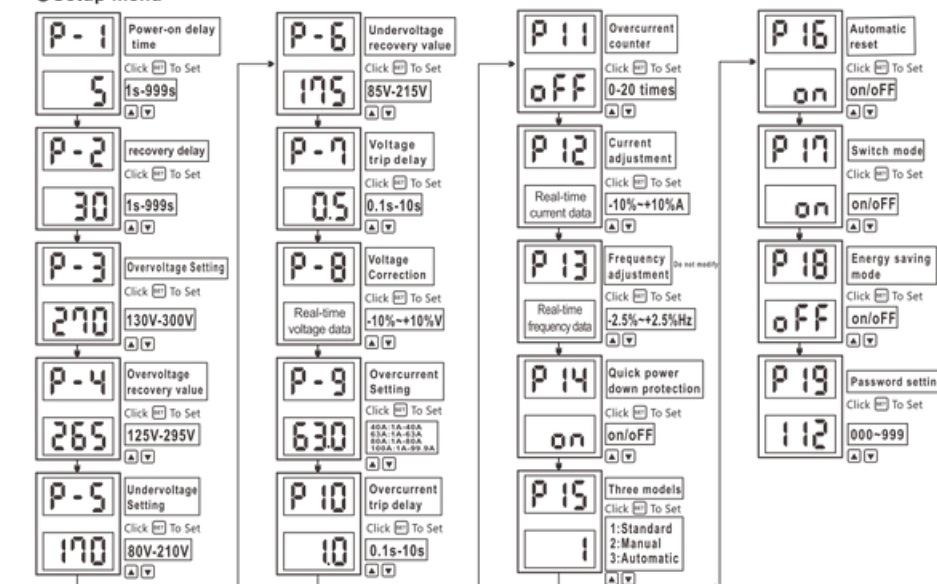
### ●Technical data

Supply terminals	N,L
Rated supply voltage	AC 220V; DC 85-300V
Rated frequency	40/50/60/70Hz
> V setting range	AC130-300V; DC130-300V
< V setting range	AC80-210V; DC85-210V
Voltage hysteresis	5V
Overvoltage trip delay	0.5s
Voltage accuracy	<1%
Max. operating phase voltage	350V
Max. operating current	40A/63A/80A/100A
Altitude	≤2000m
Permissible relative humidity	≤50% at 40°C (without condensation)
Ambient temperature	-25°C~+55°C
Size	81*36*66mm

PN2-VA4

## Function setting

### ●Setup menu



Note:  
Under DC power, no current is displayed, only voltage is displayed.  
P15: Mode 1: Standard, P1-P19 Mode 2: Manual. Press up or down button to display voltage(-U-), power(-P-), current(-A-), frequency (-H-).  
Mode 3: Automatic, display voltage (-U-), power(-P-), current(-A-), frequency (-H-) in turn.  
P19: The initial password is 112. Change the lock parameter after the initial password is changed. Set to initial password 112 to unlock.

OVERVOLTAGE AND UNDERVOLTAGE PROTECTOR

Technical data



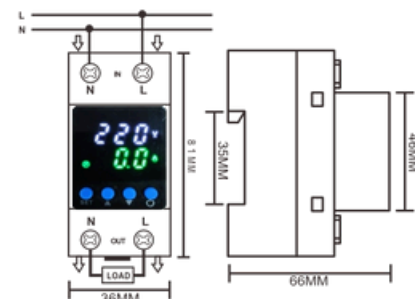
PN2-VA3

● Front-face panel

>V: Overvoltage Indicator  
 <V: Undervoltage Indicator  
 >A: Overcurrent Indicator  
 POWER: Normal Working Indicator

Menu selection  
 Digit+/Up  
 Digit-/Down  
 ON/OFF

● Wiring diagram/Dimensional Drawing



After-sales Service

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Auto Reconnect Adjustable Voltage Current Protector

Adjustable Over-voltage Under-voltage Time Delay Over-current

Instruction Manual

● Technical data

Supply terminals	N,L
Rated supply voltage	AC 220V; DC 85-300V
Rated frequency	40/50/60/70Hz
> V setting range	AC130-300V; DC130-300V
< V setting range	AC80-210V; DC85-210V
Voltage hysteresis	5V
Overvoltage trip delay	0.5s
Voltage accuracy	<1%
Max. operating phase voltage	350V
Max. operating current	40A/63A/80A/100A
Altitude	≤2000m
Permissible relative humidity	≤50% at 40°C ( without condensation)
Ambient temperature	-25°C~+55°C
Size	81*36*66mm

OVERVOLTAGE AND UNDERVOLTAGE PROTECTOR

Technical data



PN2-VAKwh



Auto Reconnect Adjustable Voltage Current Kwh Protector

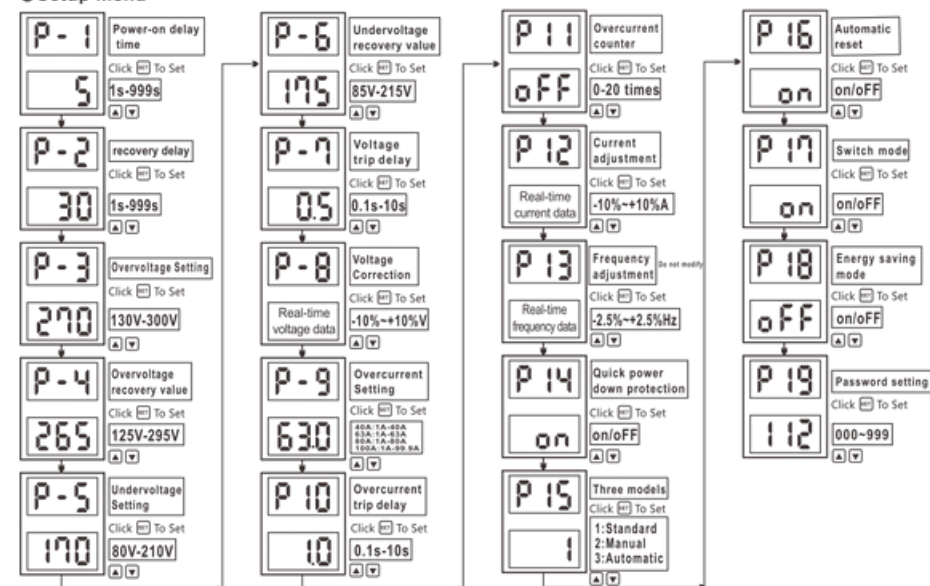
Instruction Manual

● Technical data

Supply terminals	N,L
Rated supply voltage	AC 220V
Rated frequency	50/60Hz
> V setting range	AC240-300V
< V setting range	AC140-230V
Voltage hysteresis	5V
Overvoltage trip delay	0.5s
Voltage accuracy	<1%
Max. operating phase voltage	350V
Max. operating current	40A/63A/80A/100A
Altitude	≤2000m
Delay time	5-300s
Permissible relative humidity	≤50% at 40°C ( without condensation)
Ambient temperature	-25°C~+55°C
Size	81*36*66mm

Function setting

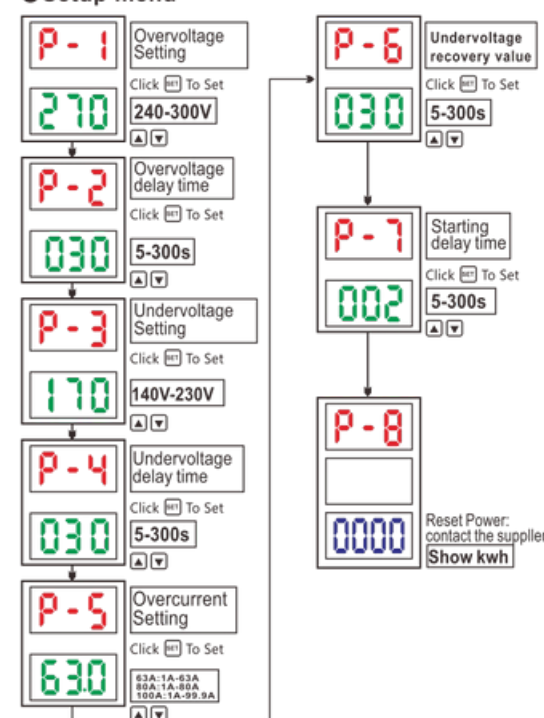
● Setup menu



Note:  
 Under DC power, no current is displayed, only voltage is displayed.  
 P15: Mode 1:Standard, P1-P19: Mode 2:Manual. Press up or down button to display voltage(-U-), power(-P-), current(-A-), frequency (-H-).  
 Mode 3:Automatic, display voltage(-U-), power(-P-), current(-A-), frequency (-H-) in turn.  
 P19: The initial password is 112. Change the lock parameter after the initial password is changed. Set to initial password 112 to unlock.

Function setting

● Setup menu



Note: To quickly adjust the figures for longer periods of time, press either the "Up" or the "Down" Key

● Front-face panel

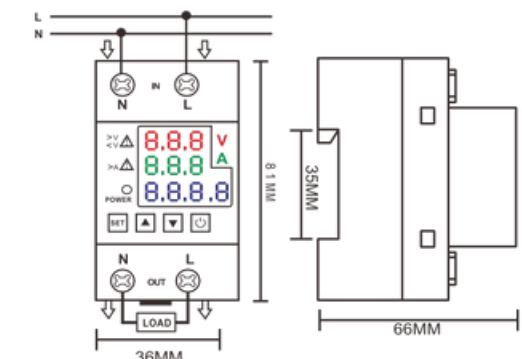
ΔV: Over/Undervoltage Indicator  
 ΔA: Overcurrent Indicator  
 POWER: Normal Working Indicator

Menu selection  
 Up/Digit+  
 Down/Digit-  
 ON/OFF

● Setting instructions

Long press the down "Set" keys for 5s enter the SET state, press the UP and DOWN keys to modify the overvoltage, undervoltage, current, press the SET key to save.

● Wiring diagram/Dimensional Drawing



After-sales Service

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## OVERVOLTAGE AND UNDERVOLTAGE PROTECTOR

### Technical data

**●Front-face panel**

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>A: Overcurrent Indicator  
POWER: Normal Working Indicator

Menu selection  
Digit+/Up  
Digit-/Down  
ON/OFF

**●Wiring diagram/Dimensional Drawing**

**After-sales Service**  
Thank you very much for choosing our products, our company wholeheartedly provides you with more excellent products

PN2-VA2

Auto Reconnect  
Adjustable  
Voltage Current  
Protector

Adjustable Over-voltage  
Under-voltage Time Delay Over-current

### Instruction Manual

**●Technical data**

Supply terminals	N.L
Rated supply voltage	AC 220V; DC 85-300V
Rated frequency	40/50/60/70Hz
>V setting range	AC130-300V; DC130-300V
<V setting range	AC80-210V; DC85-210V
Voltage hysteresis	5V
Overvoltage trip delay	0.5s
Voltage accuracy	<1%
Max. operating phase voltage	350V
Max. operating current	40A/63A/80A/100A
Altitude	≤2000m
Permissible relative humidity	≤50% at 40°C (without condensation)
Ambient temperature	-25°C~+55°C
Size	81*36*66mm

## OVERVOLTAGE AND UNDERVOLTAGE PROTECTOR

### Bluetooth control



PN2-VAWIFI

### Function.

1. Remote contro at anytime fom nWhere
2. Schedules timer
3. Energy monitoring
4. Under voltage protection 110V-210V (adjustable) (default:170V)
5. Over voltage protection 230V-300V (adjustable) (default:270V)
6. Over current protection 0.1A-63A (adjustable) (default:63A)
7. Electric leakage protection:10-100mA (adjustable) (default: 10mA)
8. Preset current/voltage threshold values by app. Once the realtime/current/voltage reaches the threshold values, The connected electrical appliances will be automatically turned off

### Network Connection

1. Remote control anytime, anywhere
2. Schedule/Timer/Cycle Timer
3. Energy monitoring



Scan the QR code underneath with mobile QR code scanning tool, search "smart Life" at mobile application market to download and install APP - Connect home Wi-Fi on your mobile phone and start "smart Life" APP. Follow the instruction in the APP to register log in APP account and add new device. After finishing adding new device, you can use APP to control your device conveniently. APP is based on actual released version.

### Main uses and scope of application :

Real-time monitoring of the working status of power-using equipment, voltage, current, electrical energy, leakage and other information, the monitored circuit failure. It will alarm in time when the monitored circuit fails. Suitable for intelligent buildings, high-rise apartments, hotels, restaurants, commercial buildings, industrial and mining enterprises and other key units and petroleum, chemical, education and health, finance and telecommunications fields. chemical industry, culture, education and health, finance and telecommunication.

### Instruction Manual

**● Technical data**

Operating voltage	AC 220V
Operating voltage Range	AC 80V-300V
Frequency	50/60Hz
Over-current setting parameter range	0.1-63.0A
Over-voltage setting parameter range	230-300V
Under-voltage setting parameter range	110-210V
Rated peak insulation voltage	400V
Output Contacts	1NO
Electrical life	10 <sup>5</sup>
Mechanical life	10 <sup>5</sup>
Protection level	IP20
Altitude	≤2000m
Operating temperature	-10°C~+60°C
Humidity level	<95% (Non-condensing)
Storage temperature	-10°C~+55°C

**● Security instructions:**

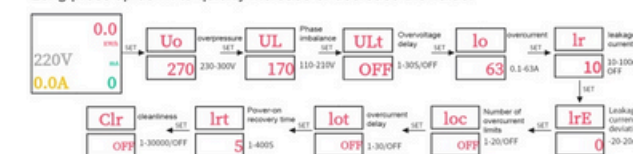
Only trained and qualified professionals should install, operate and maintain this equipment. During installation, operation and maintenance of the equipment, the local safety codes and relevant operating procedures must be observed, otherwise personal injury or equipment damage may result. The safety precautions mentioned in the instruction manual are intended only as a supplement to the local safety codes. The company assumes no liability for any violation of the general safety requirements or of the safety standards for the design, manufacture and use of the equipment.

**● Network operation:**

Download APP and click add device, the system will automatically search for nearby devices, (please ensure that the device is in the state of the network) click on the device, the device will automatically look for available WIFI, looking for the pop-up after the search of the WIFI, select the product to connect to the WIFI to enter the WIFI password click on the next, wait for the success of the addition, add the successful click on Finish, the networking operation is complete

**● Function Setting:**

Press SET to enter the menu settings. Short press up/down to increase or decrease. Long press up/down to quickly increase or decrease the value.



**Function Introduction, Default Setting Values:**

Options	Option Code	Setting range	Default parameter
Over-voltage	Uo	230-300V	270V
Under-voltage	UL	110-210V	170V
Over-voltage delay	ULt	1-30S/OFF	OFF
Over-current	Io	0.1-63.0A	63A
leakage current	Ir	10-100mA/OFF	10mA
Leakage current deviation value	IrE	-20-20mA	0mA
Over-current limit number	Ioc	1-20/OFF	OFF
Over-current delay	Iot	1-30/OFF	OFF
Power-on delay	Irt	1-400S	5
Cleanliness	Clr	1-30000/OFF	OFF

### Function setting

**● Setup menu**

**Note:**  
Under DC power, no current is displayed, only voltage is displayed.  
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