

amiciSmart 63A

amiciSmart Automatic Over/Under Voltage and Over Load Protection Device (63A) Instruction Manual

Model: 63A

INTRODUCTION

The amiciSmart Automatic Over/Under Voltage and Over Load Protection Device is designed to safeguard your electrical appliances from damage caused by sudden voltage and current fluctuations. This device provides comprehensive protection against over-voltage, under-voltage, and over-current conditions, ensuring the longevity and safe operation of your connected equipment.

It features an adjustable setting for various parameters and an auto-reconnect function, providing continuous protection without manual intervention. The device is suitable for single-phase 220V systems with a maximum current rating of 63A (13.8kW).

PRODUCT FEATURES

- **Multi-Protection:** Provides protection against over-voltage, under-voltage, and over-current with a rapid action time of 0.1 seconds.
- **Adjustable Settings:** Users can customize the over-voltage protection range (230V-300V), under-voltage protection range (80V-210V), over-current protection range (1A-63A), and auto-reconnect time (1-500 seconds).
- **Auto Reconnect:** Automatically restores power supply within the set reconnect time after voltage or current returns to normal operating parameters.
- **LED Display:** Features a clear LED display for real-time monitoring of voltage and current values.
- **Din-Rail Mounted:** Designed for easy installation on standard DIN rails.
- **Surge Protection:** Capable of withstanding up to 440V. In case of extreme surges, the device is designed to self-sacrifice to protect connected appliances.



Image: The amiciSmart device actively protecting home appliances from voltage fluctuations.

INSTALLATION GUIDE

1. Safety Precautions

- Always disconnect the main power supply before attempting any installation or wiring.
- Installation should be performed by a qualified electrician to ensure safety and proper functionality.
- Ensure the device is installed in a dry, well-ventilated area, away from direct sunlight and heat sources.
- Verify that the voltage and current ratings of the device match your electrical system requirements.

2. Mounting

The amiciSmart protection device is designed for standard DIN-rail mounting. Securely attach the device to a 35mm DIN rail within your electrical panel.



Image: The device shown securely mounted on a standard DIN rail.

3. Wiring Diagram

Follow the wiring diagram carefully to connect the device to your electrical system. Ensure correct polarity for Live (L) and Neutral (N) connections.

- Connect the incoming Live (L) and Neutral (N) wires from the grid supply to the 'IN' terminals of the Voltage Protector.
- Connect the outgoing Live (L) and Neutral (N) wires from the 'OUT' terminals of the Voltage Protector to your house load or subsequent protective devices (e.g., RCBO).
- Ensure all connections are tight and secure to prevent loose contacts and overheating.
- Recommended wire sizes: 16 mm² for loads up to 63A, 10 mm² for loads up to 45A, and 6 mm² for loads up to 35A.



Image: A detailed wiring diagram illustrating connections from grid supply to the voltage protector, energy meter, RCBO, and house load.

OPERATION AND SETTINGS

1. LED Display Overview

The device features a dual LED display. The upper display shows the current voltage, and the lower display shows the current amperage. Indicator lights next to the display show the status of over-voltage (>V), under-voltage (<V), and over-current (>A) conditions, along with a 'POWER' indicator.



Image: Close-up view of the LED display showing real-time voltage and ampere readings.

2. Adjusting Parameters

To adjust the protection parameters, use the 'SET' button and the Up/Down arrow buttons.

1. **Enter Setting Mode:** Press and hold the 'SET' button for approximately 3 seconds until the display starts flashing.
2. **Navigate Settings:** Briefly press the 'SET' button to cycle through the adjustable parameters: Over-voltage (OVP), Under-voltage (UVP), Over-current (OCP), and Reconnect Time (RT).
3. **Adjust Values:** When the desired parameter is flashing, use the Up (▲) and Down (▼) arrow buttons to increase or decrease the value.
4. **Save Settings:** After adjusting all desired parameters, wait for approximately 5 seconds without pressing any button. The device will automatically save the settings and exit the setting mode.

Adjustable Ranges:

- Over-voltage Protection (OVP): 230V ~ 300V (Default: 270V)
- Under-voltage Protection (UVP): 80V ~ 210V (Default: 170V)
- Over-current Protection (OCP): 1A ~ 63A (Default: 63A)
- Auto Reconnect Time (RT): 1 ~ 500 seconds (Default: 30 seconds)



Image: The device indicating over-voltage (>V) or under-voltage (<V) conditions.



Image: The device indicating an over-current (>A) condition.



Image: The device illustrating the auto-reconnect function, restoring power after a fault.

TECHNICAL SPECIFICATIONS

Specification	Value
Display Type	LED
Operating Temperature	Up to 55 Degrees Celsius
Product Dimensions (LxWxH)	6.5 x 3.5 x 8.5 cm (200 g)
Wattage	13.8 KW
Power Source	AC
Frequency	50 Hz
Mounting Type	DIN Rail Mount
Material	Acrylonitrile Butadiene Styrene (ABS)
Voltage (AC)	220V (Adjustable protection up to 300V)
Maximum Current	63A
Country of Origin	China

TROUBLESHOOTING

- **Device Not Powering On:** Check the incoming power supply. Ensure Live and Neutral wires are correctly connected and secure.
- **Frequent Tripping:** Review your set over-voltage, under-voltage, and over-current parameters. They might be set too sensitively for your electrical environment. Adjust the ranges slightly to accommodate minor fluctuations.
- **No Auto Reconnect:** Verify the reconnect time setting. If the fault condition persists, the device will not reconnect until the electrical parameters stabilize.

- **Display Not Working:** Ensure the device is receiving power. If power is present and the display is off, contact customer support.
- **Device Destroyed After Surge:** This is an intended safety feature. The device is designed to sacrifice itself to protect your appliances from severe surges (above 440V). Replace the device if this occurs.

MAINTENANCE

- Keep the device clean and free from dust. Use a dry cloth for cleaning.
- Do not expose the device to water or excessive moisture.
- Periodically check wiring connections to ensure they remain tight and secure.
- Avoid placing the device near strong electromagnetic fields.

WARRANTY AND SUPPORT

This amiciSmart product comes with a complete **1-year warranty** from the date of purchase. In case of any issues or technical queries, please feel free to reach out to amicikart customer support.

Contact Information:

Amicikart Online Services Pvt Ltd
A-28B, Sector-58, Noida
Contact No.: 9809709898

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Question

Details

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Answered questions about this manual

The amiciSmart AS-VP18-63A VA Protector has settings from A1 to A15. Please let me know what each setting is for?

Based on the amiciSmart 63A VA Protector documentation, the device uses a menu system to adjust protection parameters. While the basic manual highlights four primary settings (OVP, UVP, OCP, and RT), advanced models like...

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