

Walfront WALFRONT58tlhzs379

WALFRONT SVP 63A Adjustable Over-Under Voltage and Overcurrent Protector

User Manual

1. INTRODUCTION

The WALFRONT SVP 63A Adjustable Voltage Protector is designed to safeguard your electrical appliances from damage caused by over-voltage, under-voltage, and over-current conditions. This device features a dual LED display for real-time monitoring of voltage and current, along with adjustable protection parameters to suit various application requirements. Its DIN rail mounting design ensures flexible installation in both residential and industrial settings.



Figure 1: Front view of the WALFRONT SVP 63A Adjustable Voltage Protector, showing the dual LED display for voltage and current readings.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel.

- Always disconnect power before installing or servicing the device.
- Ensure proper wiring according to local electrical codes and standards.
- Do not operate the device if it appears damaged.
- This device is designed for indoor use and environments up to 2000m altitude.
- Keep away from moisture and extreme temperatures.

3. PRODUCT FEATURES

- **Comprehensive Protection:** Provides intelligent over-voltage, under-voltage, and over-current protection for connected equipment.
- **Real-time Monitoring:** Dual LED display shows precise real-time voltage and current values.
- **Adjustable Parameters:** User-friendly settings for over-voltage, under-voltage, and over-current limits, as well as fault recovery delay.
- **High Durability:** Constructed for low power consumption and a mechanical life exceeding 4,000 cycles.
- **Flexible Installation:** Designed for standard DIN rail mounting, suitable for various environments.



Figure 2: Key features of the voltage protector, highlighting its display and protective functions.

4. SPECIFICATIONS

Parameter	Value
Rated Voltage	230 VAC 50/60 Hz
Rated Current	1-63A adjustable (default 63A)
Over-voltage Protection Range	Adjustable (default 270V)
Under-voltage Protection Range	210V-145V adjustable (default 170V)
Fault Recovery Delay	3s to 300s adjustable (default 30s)
Power Consumption	≤2W
Electrical & Mechanical Life	≥ 4,000 times
Installation Method	DIN Rail
Operating Temperature	-25 °C ~ +40 °C
Altitude	Not more than 2000m
Dimensions (approx.)	81 x 36 x 60 mm / 3.2 x 1.4 x 2.4 inches
Model Number	WALFRONT58tlhzs379



Figure 3: Dimensions of the WALFRONT SVP 63A protector.

5. SETUP AND INSTALLATION

The WALFRONT SVP 63A is designed for DIN rail mounting. Follow these steps for proper installation:

1. **Power Disconnection:** Before starting, ensure that the main power supply to the circuit where the protector will be installed is completely disconnected.
2. **Mounting:** Clip the protector onto a standard 35mm DIN rail. Ensure it is securely fastened.
3. **Wiring:** Connect the incoming live (L) and neutral (N) wires to the 'IN' terminals at the top of the protector. Connect the outgoing live (L) and neutral (N) wires to the 'OUT' terminals at the bottom of the protector. Refer to the wiring diagram (if available in packaging) for precise connections. Ensure all connections are tight and secure.
4. **Verification:** Double-check all wiring connections before restoring power.
5. **Power Restoration:** Restore power to the circuit. The device's LED display should illuminate.





Figure 4: Bottom view of the protector, illustrating the DIN rail mounting mechanism.

6. OPERATING INSTRUCTIONS

The protector features a dual LED display and three control buttons: SET, Up (▲), and Down (▼).



Figure 5: Top view of the protector, showing the LED display and control buttons (SET, Up, Down).

6.1. Real-time Display

Upon power-up, the upper LED displays the current voltage (V), and the lower LED displays the current amperage (A).

6.2. Setting Protection Parameters

To adjust the protection parameters:

1. Press the **SET** button once to enter the setting mode. The first parameter (e.g., Over-voltage value) will flash.
2. Use the **Up (▲)** and **Down (▼)** buttons to adjust the value.
3. Press **SET** again to confirm the current setting and move to the next parameter.
4. Repeat steps 2 and 3 for all desired parameters (Over-voltage, Under-voltage, Over-current, Fault Recovery Delay).
5. After setting the last parameter, press **SET** one more time to save all changes and exit the setting mode.

If no button is pressed for a few seconds, the device will automatically exit setting mode and save changes.

6.3. Reset Mode Selection

This protector supports a reset mode selection. Consult the full product manual (if provided separately) for detailed instructions on configuring the reset behavior (e.g., automatic or manual reset after a fault).

7. MAINTENANCE

The WALFRONT SVP 63A is designed for minimal maintenance. However, regular checks can ensure optimal performance and longevity:

- **Visual Inspection:** Periodically inspect the device for any signs of physical damage, loose connections, or discoloration.
- **Cleaning:** If necessary, gently wipe the exterior of the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Connection Check:** Ensure that all wiring connections remain tight and secure. Loose connections can lead to overheating or intermittent operation.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges.

Always disconnect power before performing any maintenance.

8. TROUBLESHOOTING

If you encounter issues with your WALFRONT SVP 63A protector, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on / LED display is off	No power supply; Incorrect wiring; Device fault	Check main power supply; Verify wiring connections; If power is present and wiring is correct, the device may be faulty and require replacement.
Device trips frequently	Protection parameters set too low/high; Actual voltage/current exceeds limits; Faulty appliance	Adjust over-voltage, under-voltage, or over-current settings; Check the actual voltage/current with a multimeter; Inspect connected appliances for faults.
Display shows incorrect readings	Sensor issue; Device fault	Verify readings with a calibrated multimeter. If discrepancies persist, the device may be faulty.
Cannot adjust settings	Buttons unresponsive; Device locked	Ensure you are pressing the SET button correctly to enter setting mode. If buttons are unresponsive, the device may be faulty.

If the problem persists after attempting these solutions, contact customer support.

9. WARRANTY AND SUPPORT

9.1. Warranty Information

This WALFRONT SVP 63A Adjustable Voltage Protector comes with a **2-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, misuse, unauthorized modifications, or external causes such as power surges not related to the device's function.

9.2. Customer Support

For technical assistance, warranty claims, or further inquiries, please contact your retailer or the manufacturer directly. Please have your model number (WALFRONT58tlhzs379) and purchase date available when contacting support.