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DEWIN DEWINvt8wp24xim-01

DEWIN Intelligent Single Phase Adjustable Over-Voltage Under-Voltage Current Protector

Model: DEWINvt8wp24xim-01
Brand: DEWIN

1. Introduction

This manual provides essential information for the safe and effective use of your DEWIN Intelligent Single Phase Adjustable Over-Voltage Under-Voltage Current Protector. This device is designed to safeguard single-phase power equipment in residential and commercial settings from damage caused by overvoltage, undervoltage, and overcurrent conditions. Please read this manual thoroughly before installation and operation.

2. Product Features

- **Comprehensive Protection:** Protects against overvoltage, undervoltage, and overcurrent conditions.
- **Automatic Recovery:** Automatically restores power when line voltage returns to normal.
- **Adjustable Parameters:** Allows user-defined settings for overvoltage, undervoltage, and overcurrent protection values.
- **Digital Display:** Real-time display of working voltage and current for easy monitoring.
- **DIN Rail Installation:** Designed for convenient installation on a DIN rail.
- **Durable Construction:** Made with PA material, flame retardant, and high temperature resistant for enhanced safety and longevity.



Figure 2.1: Digital display showing real-time voltage and current readings.



Figure 2.2: Overview of protection features: overvoltage, undervoltage, and overcurrent.

3. Specifications

Parameter	Value
Rated Voltage	230V AC 50/60Hz
Rated Current (Adjustable)	1-40A or 1-63A (depending on model)
Overvoltage Protection Range	221V-300V-OFF (Default: 280V)
Overvoltage Recovery Range	220V-299V (Default: 250V)

Parameter	Value
Overvoltage Action Time	0.1s-10s (Default: 0.1s)
Undervoltage Protection Range	150V-219V-OFF (Default: 160V)
Undervoltage Recovery Range	151V-220V (Default: 180V)
Undervoltage Action Time	0.1s-10s (Default: 0.1s)
Overcurrent Regulation Range	1-40A or 1-63A (depending on model)
Overcurrent Action Time	0.1s-512s (Default: 5.0s)
Failure Recovery Delay Time	2s-512s (Default: 60s)
Power-on Delay Time	2s-255s (Default: 2s)
Power Consumption	≤2W
Electrical Mechanical Life	≥4000 times
Installation Method	DIN rail
Working Temperature	-25℃ ~ +40℃
Humidity	<90%
Altitude	No more than 2000m
Dimensions	Approx. 81 x 36 x 60mm / 3.2 x 1.4 x 2.4inch
Item Weight	180 g



Figure 3.1: Product dimensions of the DEWIN Voltage Protector.



Figure 3.2: Environmental operating conditions for the protector.

4. Installation

The DEWIN Voltage Protector is designed for DIN rail installation. Ensure all power is disconnected before proceeding with installation.

1. Mount the protector securely onto a standard DIN rail within your electrical distribution box.
2. Connect the incoming neutral line (N) to the 'N IN' terminal and the incoming live line (L) to the 'L IN' terminal on the top of the protector.
3. Connect the outgoing neutral line (N) to the 'N OUT' terminal and the outgoing live line (L) to the 'L OUT' terminal on the bottom of the protector.
4. Ensure all connections are tight and secure. Refer to the wiring diagram below for proper connection.



Figure 4.1: Typical wiring diagram for the DEWIN Voltage Protector.

Important Safety Notes for Installation:

- The line conductor must meet the relevant current standard value, and the load current must not exceed the maximum protection current value of the protector.
- The neutral line (N) must be connected correctly and securely. The neutral line (N) of the protector is directly connected and does not have a disconnect function.

5. Operating Instructions

The protector features a digital display and control buttons for setting parameters.

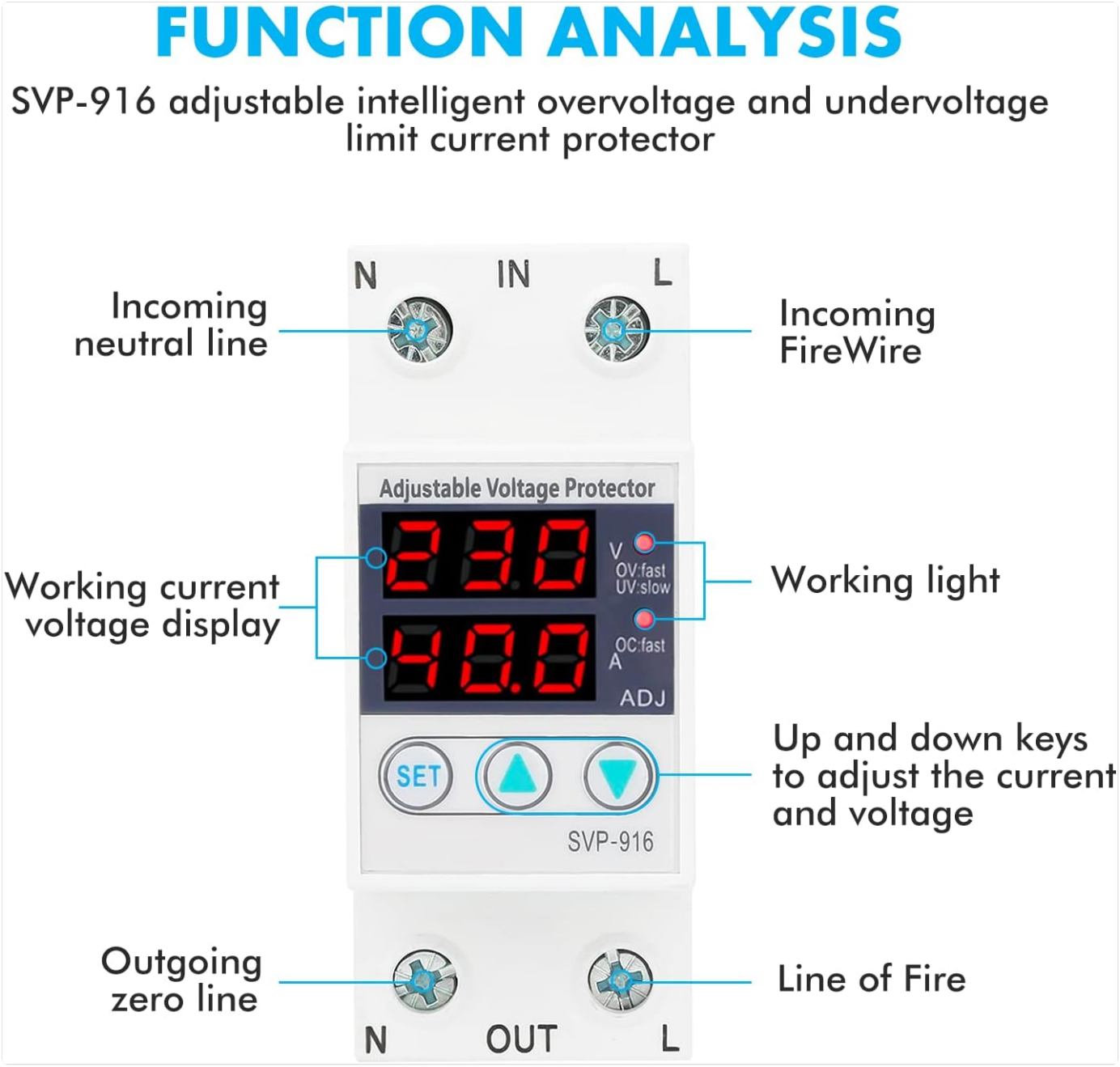


Figure 5.1: Functional overview of the protector's display and controls.

5.1. Initial Power-On

After successful installation and power-on, the protector will display the current voltage and current. There will be a power-on delay (default 2 seconds) before normal operation begins.

5.2. Adjusting Parameters

To adjust the overvoltage, undervoltage, or overcurrent protection values:

1. Press the 'SET' button to enter the setting mode. The display will show the parameter currently being adjusted (e.g., overvoltage protection value).
2. Use the 'UP' (triangle up) and 'DOWN' (triangle down) buttons to increase or decrease the value.
3. Press 'SET' again to confirm the setting and move to the next parameter, or wait a few seconds for the device to automatically save and exit the setting mode.

5.3. Protection Function

When the line voltage or current exceeds the set protection values (overvoltage, undervoltage, or overcurrent), the protector will instantly cut off the power supply to protect connected equipment. Once the line conditions return to normal

within the recovery range, the protector will automatically restore power after the set failure recovery delay time (default 60 seconds).
If the power interruption time is greater than 0.3 seconds, the protector will not automatically reset after the power failure.
If the protector locks due to more than 5 protection events within a specified time, it will not automatically restore power. In this case, you must manually press the 'SET' button to unlock and restore power.

6. Maintenance

The DEWIN Voltage Protector is designed for low maintenance. Regular checks include:

- Periodically inspect the wiring connections to ensure they remain tight and secure.
- Keep the device clean and free from dust and debris. Use a dry, soft cloth for cleaning.
- Do not use abrasive cleaners or solvents.

7. Troubleshooting

7.1. Power Not Restoring Automatically

If the protector has tripped and power is not restoring automatically, check the following:

- **Line Conditions:** Ensure that the line voltage and current have returned to normal operating ranges.
- **Frequent Tripping:** If the protector has tripped more than 5 times within a short period, it may enter a locked state. In this situation, you must manually press the 'SET' button to unlock and restore power.
- **Power Interruption Duration:** If the power failure lasted longer than 0.3 seconds, the protector will not automatically reset. Manual intervention may be required.

7.2. Incorrect Readings on Display

Ensure the wiring is correct and secure. Loose connections can lead to inaccurate readings.

8. Safety Information

WARNING: Risk of Electric Shock

- Always disconnect power before installing, inspecting, or performing any maintenance on the protector.
- After the product is powered on, do not touch any live parts to avoid electric shock.
- This protector does not provide isolation or short-circuit protection. Additional protective devices (e.g., circuit breakers) must be installed upstream for complete circuit protection.
- Ensure the line conductor meets the required current standard value and the load current does not exceed the protector's maximum rated current.
- The neutral line (N) must be connected correctly and securely.
- Installation should only be performed by qualified personnel in accordance with local electrical codes and regulations.

9. Warranty and Support

For warranty information or technical support, please contact your point of purchase or the DEWIN customer service department. Keep your purchase receipt as proof of purchase.

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