

Canglan Technology 835MP

Canglan Technology SUSAN 835MP Ultrasonic Inverter Fishing Machine

USER MANUAL

1. Introduction

This manual provides detailed instructions for the safe and effective use of your Canglan Technology SUSAN 835MP Ultrasonic Inverter Fishing Machine. Please read this manual thoroughly before operating the device to ensure proper setup, operation, and maintenance. Retain this manual for future reference.

The SUSAN 835MP is a 12V DC ultrasonic inverter designed to assist in fishing activities by generating an ultrasonic pulse. It is engineered for efficiency and ease of use.

2. Important Safety Information

Always observe the following safety precautions to prevent injury or damage to the device:

- **Electrical Hazard:** This device operates with high voltage output. Never touch the output terminals or electrodes when the device is powered on.
- **Water Contact:** This device is not waterproof. Avoid direct contact with water to prevent electric shock or damage to the unit.
- **Battery Connection:** Ensure correct polarity when connecting the battery (red to positive, black to negative). The device features protection against wrong polarity, but incorrect connection can still cause issues.
- **Ventilation:** Operate the device in a well-ventilated area to prevent overheating. Do not block the cooling fan.
- **Overload Protection:** The unit has built-in safety mechanisms to prevent overloading and overheating. Do not attempt to bypass these features.
- **Children and Unauthorized Users:** Keep the device out of reach of children and individuals not trained in its operation.
- **Maintenance:** Only perform maintenance as described in this manual. Refer all other servicing to

qualified personnel.

3. Product Overview

The SUSAN 835MP Ultrasonic Inverter Fishing Machine is a compact and efficient device designed for electro-fishing. It utilizes ultrasonic pulse technology to generate an output suitable for stunning fish in a wide area. Its design focuses on energy efficiency and user-friendly operation.

Key Features:

- Efficient ultrasonic pulse technology for effective operation.
- Capable of assisting in catching various types of fish.
- Energy-saving design minimizes power consumption and heat generation.
- Compact and portable for ease of transport.
- User-friendly interface with integrated safety mechanisms.

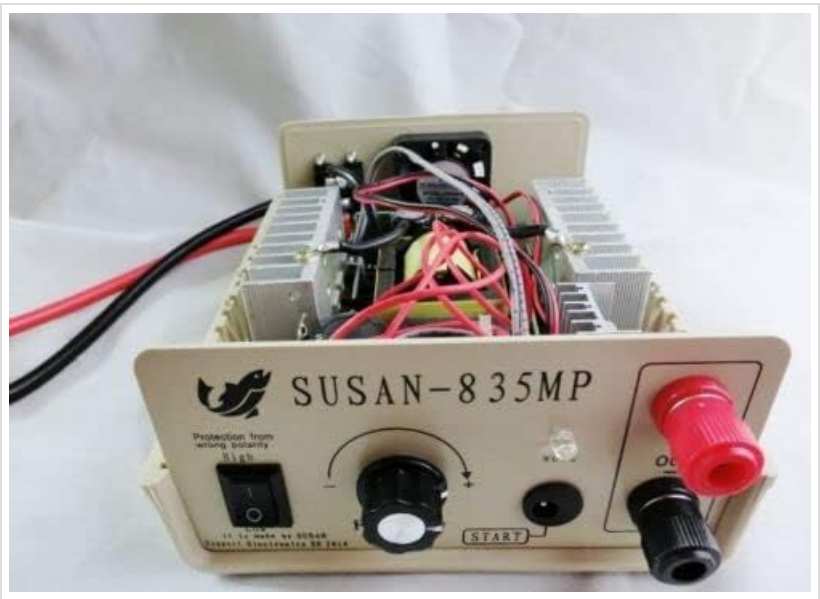


Figure 3.1: Front panel of the SUSAN 835MP showing the power switch, frequency control knob, and output terminals.

4. Technical Specifications

Parameter	Value
Model Name	835MP
Input Voltage	12 VDC Nominal Range (12-14 VDC)
Input Current	5-60 Amps (operating 10-20 Amps)
Output Voltage	750 V Max
Output Power	800 watts maximum (in peak) (operating 200-600 watts)
Output Frequency	(10-100) Hz in 1 Hz steps
Output Duration	(30 microseconds - 2.5 milliseconds)
Weight	2.5 KG (5.5 pounds) (without battery)

Parameter	Value
Dimensions	180 mm x 100 mm x 80 mm
Recommended Battery	12 V DC, 20AH-36AH (not included)
Color	Beige

5. Setup Instructions

Follow these steps to set up your SUSAN 835MP:

- Unpack and Inspect:** Carefully remove the device from its packaging. Inspect for any visible damage.
- Prepare Battery:** Ensure you have a fully charged 12V DC battery (20AH-36AH recommended). The battery is not included with the device.
- Connect Battery:** Locate the input power cables on the device (typically red and black). Connect the red cable to the positive (+) terminal of your 12V battery and the black cable to the negative (-) terminal. Ensure connections are secure and correct polarity is maintained.
- Connect Output Electrodes:** Connect your fishing electrodes (not included) to the output terminals on the front panel of the SUSAN 835MP. Ensure these connections are also secure.



Figure 5.1: Rear view of the SUSAN 835MP, illustrating the input power cable connection point and the cooling fan.

6. Operating Instructions

Once the device is properly set up, follow these steps for operation:

- Power On:** Flip the main power switch on the front panel to the 'ON' position.
- Adjust Frequency:** Use the 'Frequency' control knob to set the desired output frequency (10-100 Hz). The optimal frequency may vary depending on the target species and water conditions.
- Initiate Output:** Press and hold the 'START' button to activate the ultrasonic pulse output. Release the button to stop the output.
- Observe and Adjust:** Monitor the device's performance and adjust the frequency as needed for desired results.
- Power Off:** When finished, release the 'START' button and flip the main power switch to the 'OFF' position. Disconnect the battery when not in use.



Figure 6.1: Close-up of the SUSAN 835MP control panel, highlighting the power switch, frequency adjustment knob, and start button.

7. Maintenance

Proper maintenance ensures the longevity and reliable operation of your SUSAN 835MP:

- **Cleaning:** Wipe the exterior of the device with a dry, soft cloth. Do not use abrasive cleaners or allow liquids to enter the unit.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. Disconnect the battery before storing for extended periods.
- **Battery Care:** Follow the battery manufacturer's instructions for charging, discharging, and long-term storage to maximize battery life.
- **Cable Inspection:** Periodically inspect all cables and connections for signs of wear, fraying, or damage. Replace any damaged components immediately.
- **Ventilation:** Ensure the cooling fan and vents remain clear of dust and debris to maintain proper airflow.

8. Troubleshooting

If you encounter issues with your SUSAN 835MP, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Device does not power on	Battery not connected or low charge Power switch is off Faulty connections	Check battery connections and charge level Ensure power switch is in 'ON' position Inspect all cables for damage and secure connections
No output when 'START' button is pressed	Output electrodes not connected Device not powered on Internal fault	Ensure electrodes are securely connected Verify device is powered on If problem persists, contact support
Device overheats	Blocked ventilation Prolonged heavy use Environmental factors	Ensure cooling fan and vents are clear Allow device to cool down Operate in a well-ventilated area

Problem	Possible Cause	Solution
Reduced performance	Low battery charge Loose connections Incorrect frequency setting	Recharge or replace battery Check and secure all connections Adjust frequency knob as needed

If you are unable to resolve an issue using this guide, please contact customer support.

9. Warranty and Support

The SUSAN 835MP Ultrasonic Inverter Fishing Machine is manufactured by Canglan Technology. For warranty information, technical support, or service inquiries, please contact the seller or the manufacturer directly. Please have your product model number (835MP) and purchase details available when contacting support.