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DONGKER 1309801

DONGKER DC 12V-36V Battery Guard User Manual

Model: 1309801

Introduction

This user manual provides detailed instructions for the DONGKER DC 12V-36V Battery Guard (Model 1309801). This programmable low voltage disconnect switch is designed to protect lead-acid and lithium-ion batteries from over-discharge, thereby extending their lifespan. It features an automatic load disconnection function, power-off memory, and a clear LED voltage indicator.

Product Features

- Programmable low voltage disconnect for DC12-36V lead-acid and lithium-ion batteries.
- Automatic load disconnection to prevent battery over-discharge.
- Power-off memory function retains settings even after power loss.
- Integrated LED display for real-time voltage monitoring.
- Input Voltage Range: DC 12V-36V.
- Setting Accuracy: 0.1V.
- Power Consumption: <1.5W.
- Maximum Current (before switch trip): 20A.

Package Contents

Please check the package contents upon receipt. The standard package should include:

- 1 x DONGKER DC 12V-36V Battery Guard Module (Model 1309801)
- (Batteries are not included)

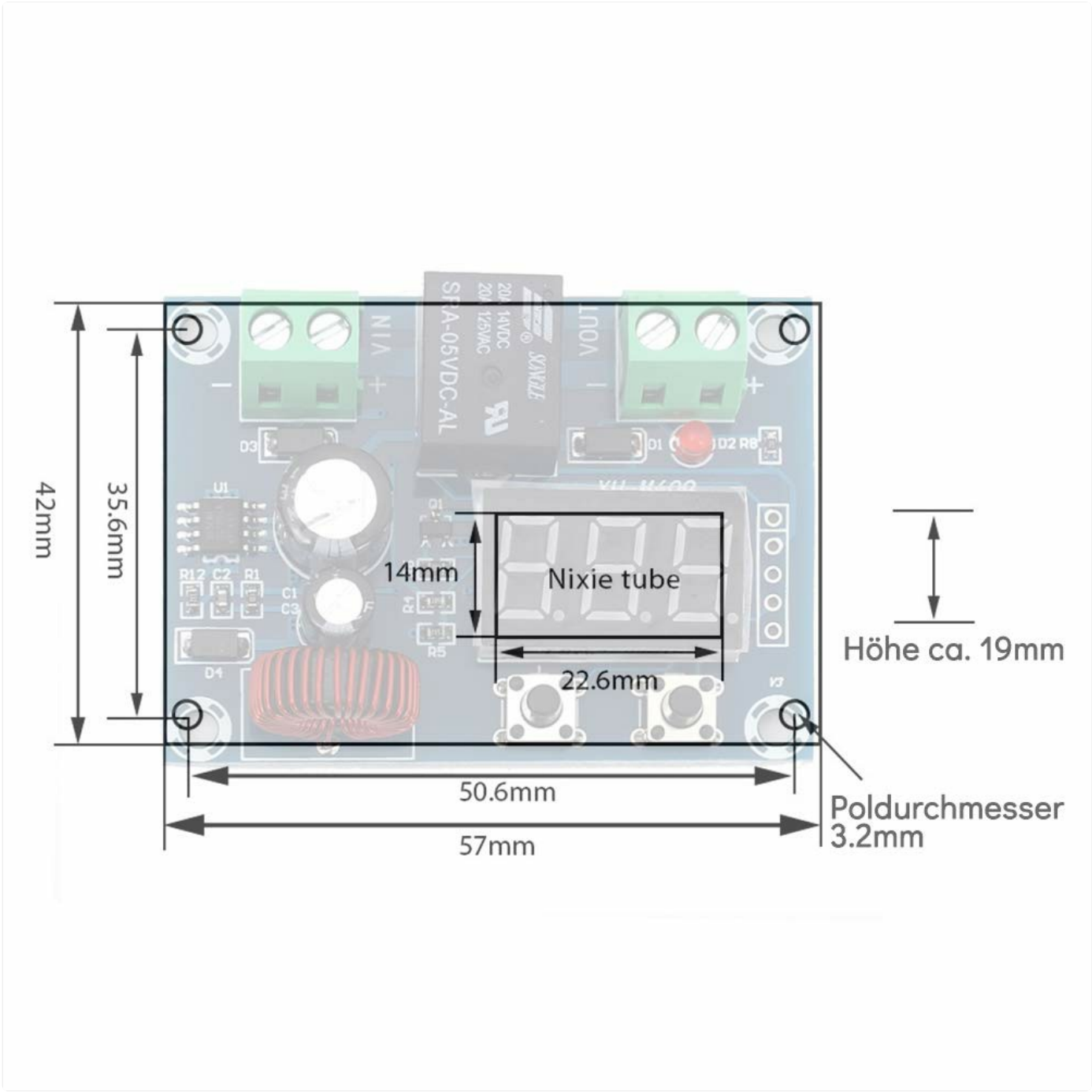


Figure 1: The DONGKER Battery Guard module packaged in an anti-static bag.

Product Overview



Figure 2: Top-down view of the DONGKER Battery Guard module, showing the LED display, control buttons, and terminal blocks.

The module features a clear red LED display for real-time voltage readings. Two push buttons are located below the display for setting parameters. Input and output connections are provided via screw terminal blocks for secure wiring.

Setup and Wiring

Proper wiring is crucial for the safe and correct operation of the battery guard. Refer to the wiring diagram below.

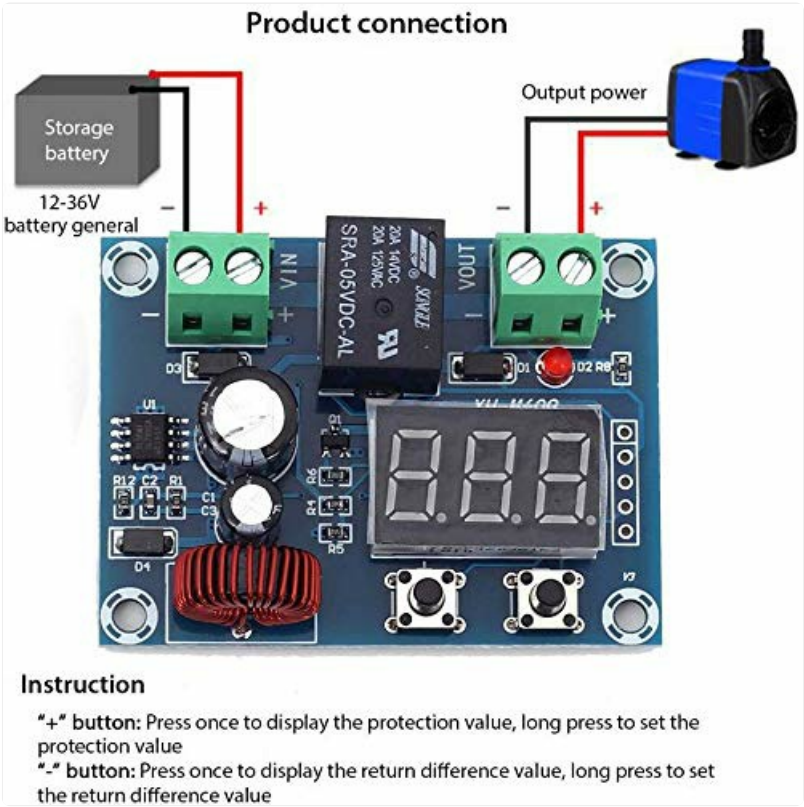


Figure 3: Wiring diagram showing connections for the storage battery and output load.

1. **Input Connection (VIN):** Connect the positive terminal of your 12V-36V battery to the '+' terminal of the VIN block and the negative terminal of the battery to the '-' terminal of the VIN block.

2. **Output Connection (VOUT):** Connect the positive terminal of your load (e.g., pump) to the '+' terminal of the VOUT block and the negative terminal of your load to the '-' terminal of the VOUT block.
3. Ensure all connections are secure and observe correct polarity. Incorrect wiring can damage the module or connected devices.

Operating Instructions

Setting the Protection Voltage

The module allows you to set a low voltage disconnect threshold. When the battery voltage drops below this set value, the module will automatically disconnect the load to prevent over-discharge.

- **'+' Button:**
  - Press once to display the current protection voltage value.
  - Long press (hold for 3 seconds) to enter the protection voltage setting mode. The display will flash. Use the '+' and '-' buttons to adjust the desired voltage. Press the '+' button again to confirm and save the setting.
- **'-' Button:**
  - Press once to display the return difference value (hysteresis).
  - Long press (hold for 3 seconds) to enter the return difference setting mode. The display will flash. Use the '+' and '-' buttons to adjust the desired hysteresis. Press the '-' button again to confirm and save the setting.

The return difference (hysteresis) ensures that the load does not immediately reconnect when the voltage slightly recovers after disconnection, preventing rapid on-off cycling. The load will only reconnect when the battery voltage rises above the protection voltage plus the return difference.
The module saves all settings automatically, even if power is lost. This ensures that your configured protection levels are retained.

Maintenance

The DONGKER Battery Guard is designed for low maintenance. Follow these guidelines to ensure optimal performance and longevity:

- Keep the module clean and free from dust and moisture.
- Ensure proper ventilation around the module to prevent overheating.
- Regularly check wiring connections for tightness and signs of corrosion.
- Avoid exposing the module to extreme temperatures or direct sunlight for prolonged periods.

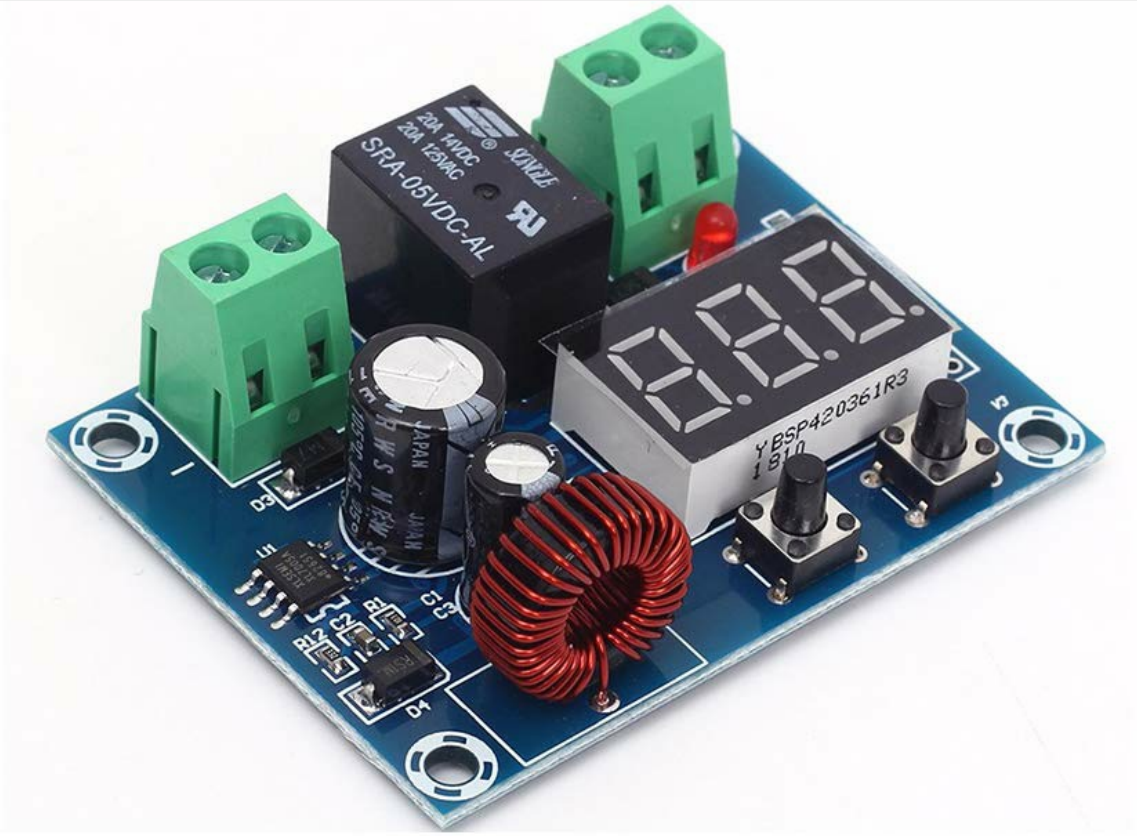
Troubleshooting

Problem	Possible Cause	Solution
Module not powering on / LED display off.	No input power; incorrect wiring; faulty module.	Check battery connections and polarity. Ensure battery voltage is within 12V-36V. Verify wiring according to Figure 3. If problem persists, contact support.
Load not disconnecting at set voltage.	Protection voltage set too low; faulty relay; incorrect wiring.	Verify the set protection voltage. Check output wiring. Ensure the load current does not exceed 20A.

Problem	Possible Cause	Solution
Load reconnects too quickly.	Return difference (hysteresis) set too low.	Increase the return difference value using the '-' button setting mode.
Inaccurate voltage reading.	Poor connection; external interference.	Check all wiring connections for tightness. Ensure the module is not exposed to strong electromagnetic interference.

Specifications

Parameter	Value
Product Name	Battery Over-discharge Protection Module
Input Voltage Range	DC 12V-36V
Output Voltage	Corresponds to input voltage
Control Accuracy	0.1V
Power Consumption	<1.5W
Applicable Battery Types	Various storage batteries, Lithium batteries
Maximum Current	20A
Dimensions (L x W x H)	5.7 x 1.9 x 4.2 cm (2.24 x 0.75 x 1.65 inches)
Net Weight	28 grams (0.99 oz)
Model Number	1309801



Paramrter	Wert
Produktname	Batterie über Entladeschutzmodul
Versorgungsspannung	Die 12-V-36-V-Batterie
Ausgangsspannung	Entspricht der Versorgungsspannung
Kontrollgenauigkeit	0.1V
Energieverbrauch	Weniger als 1,5 watt
Geltungsbereich	Verschiedene Speicherbatterien, Lithiumbatterien
Nettogewicht	28g
Größe	57*42*19mm

Figure 4: Detailed specifications table for the DONGKER Battery Guard.



Figure 5: Physical view of the DONGKER Battery Guard module, illustrating its compact design.

Warranty and Support

DONGKER products are manufactured to high quality standards. For warranty information or technical support, please refer to the seller's policy on the platform where the product was purchased. Please retain your proof of purchase for any warranty claims.

For further assistance, you may contact the seller directly through the Amazon messaging system.

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