

## HQST HQST-SET-ANL30

# HQST 30 Amp ANL Fuse with Transparent Holder User Manual

Model: HQST-SET-ANL30

### 1. PRODUCT OVERVIEW

The HQST 30 Amp ANL Fuse with Transparent Holder is designed to provide essential over-current protection for your electrical systems, particularly in solar power setups. It safeguards batteries, connection wires, and charge controllers by interrupting the circuit when current exceeds safe limits.

This fuse holder features a transparent, non-conductive cover for easy status identification and gold-plated terminal contacts for corrosion resistance. It is compatible with various wire gauges and supports replaceable ANL fuses.

### 2. KEY FEATURES

- **Over Current Protection:** Designed to protect your battery, connection wire, and charge controller from excess current. It will fuse itself to cut off electricity when the current exceeds the safe limit of the electrical system.
- **Reliable and Safe:** The fuse is ignition protected, featuring gold-plated terminal contacts for corrosion resistance. The transparent and non-conductive cover allows for easy identification of the fuse's operational status.
- **Replaceable Fuse:** Compatible with all 20A, 30A, 40A, 60A, and 100A ANL fuses, allowing for easy replacement.
- **Common M8 Bolt:** Adopts the commonly used M8 bolt, supporting 10/8/6/4/2/0 AWG wiring cables.

### 3. SPECIFICATIONS

Specification	Detail
Brand	HQST
Model	HQST-SET-ANL30
Maximum Current	30 Amps
Material	Copper
Mounting Type	Holder

Compatible Wire Gauges	10/8/6/4/2/0 AWG
Bolt Size	M8

## Dimensions

# FUSE BASE SIZE



Image: Fuse base dimensions. The holder measures approximately 122.1mm (4.8 inches) in length, 37.8mm (1.49 inches) in height, and 36.2mm (1.43 inches) in width.

## 4. INSTALLATION INSTRUCTIONS

### 4.1 Wiring Diagram

The ANL fuse should be installed inline between your charge controller and the battery to protect both components and the connecting wires from over-current conditions.

# 30A ANL FUSE WITH HOLDER

COMPATIBLE WITH ALL **20/30/40/60/100** ANL FUSES  
NON-CONDUCTIVE RESISTANT COVER



Image: Wiring diagram illustrating the ANL fuse placement between a charge controller and a battery, connected by tray cables and fuse cables.

## 4.2 Step-by-Step Installation

Follow these steps to install the HQST 30 Amp ANL Fuse with Transparent Holder:

1. **Prepare the Holder:** Open the transparent cover of the fuse holder.
2. **Insert the Fuse:** Place the 30A ANL fuse into the designated slot within the holder.
3. **Connect Wires:** Securely attach your 10/8/6/4/2/0 AWG wiring cables to the M8 bolts on either side of the fuse holder. Ensure the wires are properly crimped with appropriate terminals.
4. **Tighten Connections:** Carefully tighten the nuts and washers to ensure a secure connection. *A loose connection can cause excessive heat, potentially damaging the fuse and holder.*
5. **Close Cover:** Replace the transparent cover to protect the fuse and connections.



Image: Visual guide for installation. Step 1 shows the open holder, Step 2 shows the fuse inserted, Step 3 shows wires connected, and Step 4 shows the final tightened connection.

## 5. OPERATION

Once installed, the HQST ANL Fuse operates passively. It continuously monitors the current flowing through the circuit. If the current exceeds 30 Amps, the fuse element will melt, creating an open circuit and stopping the flow of electricity. This action prevents damage to your connected components such as the battery, charge controller, and wiring.

# OVER-CURRENT PROTECTION

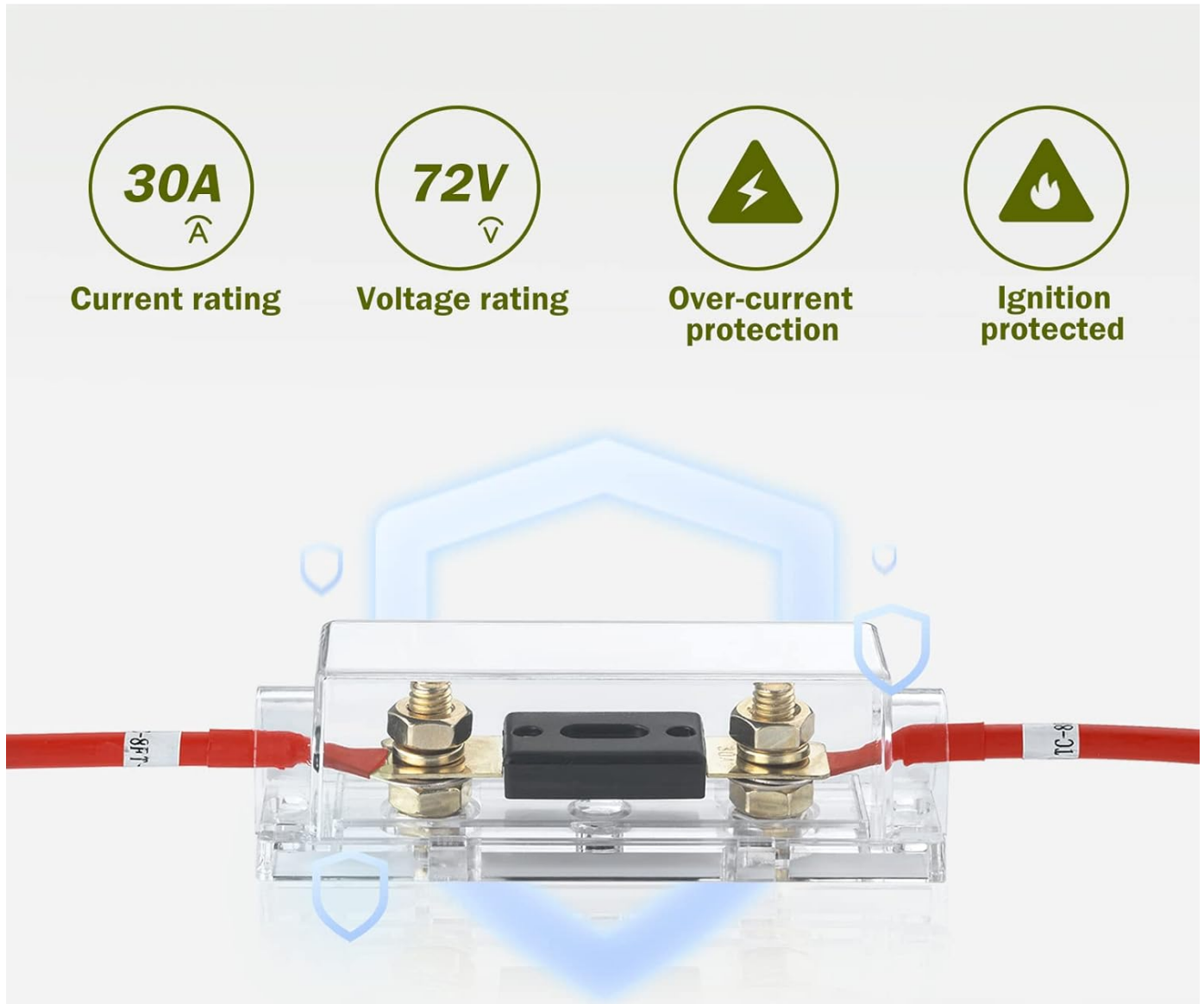


Image: Over-current protection features. Highlights include 30A current rating, 72V voltage rating, general over-current protection, and ignition protected design.

## 6. MAINTENANCE

### 6.1 Fuse Replacement

If the fuse blows, it indicates an over-current event has occurred. To replace the fuse:

1. **Disconnect Power:** Ensure all power sources to the circuit are disconnected before attempting any maintenance.
2. **Open Holder:** Carefully open the transparent cover of the fuse holder.
3. **Remove Blown Fuse:** Remove the old, blown ANL fuse. The transparent cover allows for easy visual inspection to confirm if the fuse element is broken.
4. **Insert New Fuse:** Insert a new ANL fuse of the correct amperage (e.g., 30A) into the holder.
5. **Secure and Reconnect:** Close the transparent cover and reconnect power to the circuit.

The fuse holder is compatible with 20A, 30A, 40A, 60A, and 100A ANL fuses. Ensure you replace it with a fuse of the appropriate rating for your system.

# REPLACEABLE FUSE



20A

30A

40A

60A

100A

\*EXTRA REPLACEMENT FUSES ARE NOT INCLUDED.

Image: Replaceable fuse. Shows the fuse holder and a separate ANL fuse, with compatible ratings (20A, 30A, 40A, 60A, 100A) listed below. Note: Extra replacement fuses are not included.

## 6.2 Connection Inspection

Periodically inspect the connections to ensure they remain tight and free from corrosion. Loose connections can lead to resistance, heat buildup, and potential system failure.

## 7. TROUBLESHOOTING

If your system is not receiving power after installation, consider the following:

- **Check Fuse Status:** Visually inspect the fuse through the transparent cover. If the metal element inside is broken, the fuse has blown and needs replacement.
- **Verify Connections:** Ensure all wiring connections are secure and tightened properly. A loose connection can prevent current flow or cause excessive heat.
- **Correct Amperage:** Confirm that the installed fuse matches the required amperage for your system. Using an incorrect fuse can lead to premature blowing or insufficient protection.

## 8. WARRANTY AND SUPPORT

For information regarding product warranty or technical support, please refer to the official HQST website or contact HQST customer service directly. Details may also be available on the product packaging or purchase documentation.

You can visit the HQST Store for additional products and support: [HQST Store on Amazon](#)

