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Beiter DC Power SY1250

Beiter DC Power SY1250 12V 5Ah Sealed Lead Acid Battery Instruction Manual

Model: SY1250 | Brand: Beiter DC Power

1. Product Overview

The Beiter DC Power SY1250 is a 12 Volt, 5 Amp-hour (5Ah) Sealed Lead Acid (SLA) battery designed for various applications requiring reliable power. This battery features F1 terminals and is commonly used as a replacement battery for home alarm systems, uninterruptible power supplies (UPS), emergency lighting, and battery backup-equipped garage door openers, including compatible Chamberlain, LiftMaster, and Craftsman 4228 models.

Key features include:

- **Maintenance-Free Operation:** The battery is designed for hassle-free use without the need for regular maintenance.
- **Valve-Regulated, Spill-Proof Design:** Allows for safe and trouble-free operation in any orientation, making it versatile for various installations.
- **Rugged Construction:** Features a high-impact resistant, non-conductive ABS plastic case, providing strong resistance to shock, vibration, chemicals, and heat.
- **F1 Terminals:** Equipped with standard F1 terminals for easy connection.



Image 1.1: Close-up view of the F1 terminal on the Beiter DC Power SY1250 battery, highlighting the connection point and positive terminal marking.

2. Specifications

Specification	Detail
Model Number	SY1250
Voltage	12 Volts
Capacity	5 Amp Hours (5Ah)
Battery Cell Composition	Sealed Lead Acid (SLA)
Terminal Type	F1
Product Dimensions (L x W x H)	3.5 x 2.8 x 4 inches (8.9 x 7.1 x 10.2 cm)
Item Weight	4 pounds (1.8 kg)
Recommended Uses	Home alarm systems, UPS, emergency lighting, garage door openers



Image 2.1: Size and dimensions of the SY1250 battery, including height from the base of the terminal.

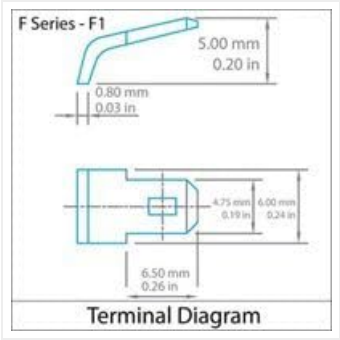


Image 2.2: Detailed terminal diagram for F1 type connections, showing precise measurements.

3. Safety Information

Always prioritize safety when handling batteries. Read and understand all safety warnings before installation or

operation.

- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.
- **Avoid Short Circuit:** Do not short-circuit the battery terminals. This can cause severe damage to the battery and pose a fire hazard.
- **Proper Ventilation:** Although sealed, ensure adequate ventilation if installing in an enclosed space.
- **Handling:** Do not drop, puncture, or disassemble the battery.
- **Disposal:** Dispose of batteries according to local regulations. Do not incinerate.
- **Children:** Keep batteries out of reach of children.

4. Installation

The Beiter DC Power SY1250 battery is designed for easy, one-time installation. Follow these general steps, referring to your device's specific manual for detailed instructions.

1. **Power Off Device:** Ensure the device requiring the battery is completely powered off and disconnected from any external power source.
2. **Locate Battery Compartment:** Open the battery compartment of your device.
3. **Remove Old Battery (if applicable):** Carefully disconnect the terminals of the old battery, typically negative (-) first, then positive (+). Remove the old battery.
4. **Inspect Terminals:** Ensure the F1 terminals on the new SY1250 battery are clean and free from corrosion.
5. **Connect New Battery:** Connect the positive (+) terminal of the new battery to the positive (+) connector of the device, then connect the negative (-) terminal to the negative (-) connector. Ensure connections are secure.
6. **Secure Battery:** Place the battery securely within its compartment.
7. **Close Compartment:** Close the battery compartment.
8. **Power On Device:** Reconnect the device to its power source (if applicable) and power it on. Verify proper operation.

Note: Our Valve Regulated, Spill-Proof design allows for trouble-free, safe operation in any orientation. However, always ensure the battery is stable and not subject to excessive movement or vibration.

5. Operation

The Beiter DC Power SY1250 battery is designed to provide consistent and reliable power. Once installed, it operates automatically within your device.

- **Initial Charge:** While batteries typically arrive with a partial charge, it is recommended to fully charge the battery before its first use, if your device allows for it.
- **Charging Voltage:** For standby use, the constant voltage charge should be 13.6-13.8V. For cyclic use, it should be 14.5-14.9V.
- **Discharge:** Avoid total discharging of the battery below 10.5V, as this can reduce battery life.
- **Temperature:** Operate the battery within recommended temperature ranges specified by your device manufacturer to ensure optimal performance and longevity.

6. Maintenance

The Beiter DC Power SY1250 is a maintenance-free battery. However, following these guidelines can help ensure its longevity and optimal performance:

- **Regular Inspection:** Periodically inspect the battery and its terminals for any signs of damage, corrosion, or loose connections. Clean terminals if necessary using a wire brush and a mixture of baking soda and water.
- **Storage:** If storing the battery for an extended period, ensure it is fully charged and stored in a cool, dry place. Recharge every 3-6 months to prevent deep discharge. Do not store in a sealed container.
- **Avoid Extreme Temperatures:** Prolonged exposure to extreme heat or cold can negatively impact battery life and performance.
- **Replacement:** Replace the battery every 3-5 years, or sooner if performance degrades significantly.

7. Troubleshooting

If you experience issues with your SY1250 battery, consider the following common troubleshooting steps:

- **Device Not Powering On:**
  - Check all connections to ensure they are secure and correctly polarized (positive to positive, negative to negative).
  - Verify the battery is fully charged. If possible, test the battery voltage with a multimeter. A fully charged 12V SLA battery should read around 12.6V or higher.
  - Ensure the device itself is functioning correctly by testing with a known good power source or battery.
- **Shortened Run Time:**
  - The battery may not be fully charging. Check your charging system or device's charging circuit.
  - The battery may be nearing the end of its service life. Consider replacement if the battery is several years old.
  - Ensure the operating temperature is within optimal range.
- **Overheating Battery:**
  - Immediately disconnect the battery from the device and charger.
  - Overheating can indicate a fault in the battery or the charging system. Do not use the battery if it is overheating.
  - Ensure proper ventilation around the battery.

If these steps do not resolve the issue, contact customer support for further assistance.

8. Product Video



Video 8.1: An official product video from Beiter DC Power showcasing various Sealed Lead Acid (SLA) batteries, highlighting their features such as valve-regulated design and reliability for different applications.

9. Warranty and Support

Beiter DC Power batteries come with a limited warranty. Please refer to the warranty information provided with your purchase or visit the official Beiter DC Power website for full details regarding warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact Beiter DC Power customer service through their official channels. Ensure you have your product model number (SY1250) and purchase details available when contacting support.

Contact Information:

- **Website:** Beiter DC Power Store on Amazon (for general inquiries and product information)

- Refer to your product packaging or purchase invoice for direct customer service contact details.

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