

KICKASS KICKASS 22A Smart Charger (B0BZP52QS1)

KICKASS 12V 22A 9-Stage Automatic Smart ACDC Battery Charger

USER MANUAL

Model: KICKASS 22A Smart Charger (B0BZP52QS1)

1. Introduction

Thank you for choosing the KICKASS 12V 22A 9-Stage Automatic Smart ACDC Battery Charger. This advanced charger is designed to keep your vehicle's battery healthy, charged, and ready for use. It automatically detects damaged batteries, intuitively repairs them, and actively provides long-term battery maintenance, ensuring peak performance for years.

This charger is compatible with a wide range of battery chemistries, including Lithium (LiFePO4), AGM, GEL, Sealed Lead Acid, and Flooded Lead Acid batteries. It is ideal for charging various battery types such as starter, deep-cycle, marine, and powersports batteries.

What's Included

KICKASS SMART BATTERY CHARGER

WHATS INCLUDED



Figure 1: Included Components. The image displays the KICKASS 22A Smart Charger along with its accessories: a 110V plug, an Anderson connector, alligator clamps, and a hook for hanging the unit. The charger features an LCD screen for readouts.

Your package should contain the following items:

- KICKASS 12V 22A Smart Charger Unit
- 110V AC Power Cord
- Anderson Connector Cable
- Anderson to Alligator Clip Adapter Cable
- User Manual (this document)

2. Safety Information

Always read and understand all safety warnings and instructions before using the battery charger. Improper use can result in serious injury or property damage.

General Safety Precautions

- Use the charger in a well-ventilated area.
- Do not expose the charger to rain or wet conditions.
- Keep out of reach of children.
- Disconnect the charger from the power outlet before making or breaking connections to the battery.
- Do not charge frozen batteries.

Protection Features

The KICKASS charger is built with comprehensive protection features to safeguard both the charger and your battery:

- **Polarity Protection:** The charger will not activate if the battery terminals are connected incorrectly. An error will be indicated on the display.
- **Short Circuit Protection:** Prevents damage in case of a short circuit.
- **Over Temperature Protection:** The charger will reduce output or shut down if it detects overheating.
- **Overcurrent Protection:** Protects against excessive current draw.
- **Charge Memory:** The charger retains the last selected charging mode, simplifying repeated use.

3. Setup

Connecting the Charger

The charger offers flexible connection options:

- **Anderson Connectors:** Connect the charger directly to a charge input Anderson connection on your battery box or system.
- **Alligator Clips:** Use the included Anderson to alligator clip attachment to connect directly to your battery terminals. Ensure correct polarity (red to positive, black to negative).



Figure 2: Charger with Cables. This image shows the KICKASS 22A Smart Charger unit along with its power cord, Anderson connector, and alligator clip adapter, illustrating the various connection methods available.

Mounting Options

The charger is designed for convenient installation:

- **Multiple Mounting Points:** Four convenient mounting points allow for easier and simpler installation to your caravan, camper, or canopy's 12V power setup.
- **Hook Mounting:** Includes a hook mounting option if you wish to hang the charger from a wall or ceiling.

4. Operating Modes

The KICKASS 22A Smart Charger features a sophisticated 9-stage charging process and various modes to optimize battery health and charging efficiency. The easy-to-read LCD display indicates battery voltage level, charge mode, and any fault codes.

22AMP 9 Stage Battery Charger



Compatible with AGM, lithium, gel and lead acid batteries – One charger for all your needs



Figure 3: Charger in Operation. The image shows the KICKASS 22A Smart Charger connected to a battery, with its LCD screen displaying a voltage of 13.3V, indicating active charging or monitoring.

9-Stage Charging Process

This multi-stage process ensures optimal charging and extends battery life:

1. **Desulfation:** Recovers sulfated batteries.
2. **Soft Start:** Gently introduces current to deeply discharged batteries.
3. **Bulk Charge:** Charges the battery to approximately 80% capacity at maximum current.
4. **Absorption:** Charges the battery to 100% at a decreasing current.
5. **Analysis:** Tests the battery's ability to hold a charge.
6. **Reconditioning:** Restores deeply discharged or neglected batteries.
7. **Float Charge:** Maintains the battery at 100% charge.
8. **Pulse Maintenance:** Applies pulses to keep the battery optimized during long-term storage.
9. **Standby:** The charger enters a low-power state when charging is complete.

Specific Charging Modes

With the touch of a button, you can change your device's charging modes:

- **AGM Recondition Mode:** Designed to bring old AGM batteries back to life, especially if they have been unused for a long period or have gone through a deep discharge.
- **Lithium (7A) & Standard (7A) Trickle/Slow Charge Battery Modes:** Ideal for charging smaller capacity lithium and standard batteries. Recommended for Gel, SLA, FLA batteries between 10-50AH and Lithium Batteries between 15-120AH (related to battery's BMS setting).
- **Lithium Activation Mode:** If your Lithium battery drops below its safety voltage parameters, toggle this mode. The charger will trickle charge the battery until it reaches the cut-in voltage, then automatically start normal charging cycles.
- **Quiet Night Mode (5A):** Lowers the output to 5A, allowing for quiet overnight charging without noisy fans. This mode can be activated on any charging setting.

KICKASS

22A Smart Battery Charger

Compatible with Lithium, AGM Gel, and Lead Acid Batteries



22A Charging Speed



9-Stage Smart Charging



Maximum Protection



Figure 4: Key Features. This image highlights the main features of the KICKASS 22A Smart Charger: its 22A charging speed, 9-stage smart charging capability, and maximum protection features, emphasizing its versatility and safety.

Product Overview Video

Your browser does not support the video tag.

Video 1: 5 Reasons You Need The KickAss 22A Smart Battery Charger! This video provides a concise overview of the key benefits and features of the KICKASS 22A Smart Charger, demonstrating its compatibility with various battery types, fast

charging capabilities, and user-friendly operation.

5. Maintenance

Proper maintenance ensures the longevity of your charger and batteries:

- Keep the charger clean and free from dust and debris.
- Store the charger in a dry, cool place when not in use.
- Inspect cables and connectors regularly for any signs of damage. Replace if necessary.
- Ensure proper ventilation during charging to prevent overheating.

6. Troubleshooting

The LCD screen will display any fault codes to indicate issues with your battery or charger. Refer to the display for specific error messages.

Common Issues and Solutions:

- **Charger not turning on:** Check power connection. Ensure battery connections are correct (polarity protection).
- **Fault code displayed:** Consult the charger's LCD screen for the specific code. Common codes relate to reverse polarity, short circuit, or over-temperature. Correct the issue as indicated.
- **Battery not charging:** Verify battery type selection matches the connected battery. Check battery health; severely damaged batteries may not accept a charge.

7. Specifications

SPECIFICATIONS

DESCRIPTION	TEST CONDITION	SPECIFICATIONS
INPUT VOLTAGE/FREQUENCY	105~132VAC/60HZ	105~132VAC/60HZ
NO-LOAD POWER CONSUMPTION	MEASURE AT 120VAC	≤3W
MAXIMUM INPUT CURRENT/POWER	MEASURE AT 120VAC	≤6A/450W
EFFICIENCY	MEASURE AT 120VAC UNDER FULL LOAD	≥73%
POWER FACTOR	MEASURE AT 120VAC UNDER FULL LOAD	≥0.91
CHARGING CURRENT	FAST MODE	22A

CHARGING MODE	MAX CHARGING CURRENT	RECOMMENDED BATTERY CAPACITY
STD SLOW MODE	4A	10-50AH
STD FAST MODE	22A	44-300AH
AGM FAST MODE	22A	44-300AH
LITHIUM SLOW MODE	7A	15-100AH (RELATED TO BATTERY'S BMS SETTING)
LITHIUM FAST MODE	22A	44-300AH (RELATED TO BATTERY'S BMS SETTING)
LITHIUM ACTIVATION MODE	22A	44-300AH (RELATED TO BATTERY'S BMS SETTING)

HI-POT TEST	3000VAC
PROTECTION LEVEL	IP20
OPERATING TEMPERATURE	14-104°F
WEIGHT	1.55KG

Figure 5: Product Specifications. This image presents a detailed table outlining the technical specifications of the KICKASS 22A Smart Charger, including input/output parameters, charging modes, and environmental conditions.

Description	Specifications
Input Voltage/Frequency	105-132VAC/60HZ
No-Load Power Consumption	≤3W (Measured at 120VAC)
Maximum Input Current/Power	≤6A/450W (Measured at 120VAC)
Efficiency	≥73% (Under Full Load)
Power Factor	≥0.91 (Measured at 120VAC Under Full Load)

Description	Specifications
Charging Current (Fast Mode)	22A
Hi-Pot Test	3000VAC
Protection Level	IP20
Operating Temperature	14-104°F (-10-40°C)
Item Weight	4 pounds (1.814 kg)
Product Dimensions	3.14 x 10.2 x 4.8 inches
Output Voltage	120 Volts
Specification Met	CE, RoHS

Charging Mode & Recommended Battery Capacity







Charging Mode	Max Charging Current	Recommended Battery Capacity
STD Slow Mode	4A	10-50AH
STD Fast Mode	22A	44-300AH
AGM Fast Mode	22A	44-300AH
Lithium Slow Mode	7A	15-100AH (Related to battery's BMS setting)
Lithium Fast Mode	22A	44-300AH (Related to battery's BMS setting)
Lithium Activation Mode	22A	44-300AH (Related to battery's BMS setting)

8. Warranty and Support

For detailed warranty information and customer support, please refer to the official KICKASS website or contact your retailer.

An electronic version of the Instructions for Use (IFU) is available for download:

[Download Instructions for Use
\(PDF\)](#)

 <p>KickAss 12V 22 AMP 9 STAGE AUTOMATIC BATTERY CHARGER USER MANUAL</p> <p>KACHG1222</p> <p>✓RoHS CE</p>	<p>KickAss 12V 22 Amp 9 Stage Automatic Battery Charger User Manual</p> <p>Comprehensive user manual for the KickAss 12V 22 Amp 9 Stage Automatic Battery Charger (KACHG1222). Learn about safety, installation, operation, charging modes, and troubleshooting.</p>
 <p>KickAss</p> <p>12V BATTERY MONITOR WITH 500A SHUNT</p> <p>OWNER'S MANUAL</p> <p>KAMF500SHUNT</p>	<p>KickAss 12V Battery Monitor with 500A Shunt: Owner's Manual & Installation Guide</p> <p>Comprehensive guide for the KickAss 12V Battery Monitor with 500A Shunt. Covers installation, setup, operation, specifications, troubleshooting, and warranty. Designed for outdoor and camping enthusiasts.</p>
 <p>KickAss</p> <p>LITHIUM 12V CONTROL BOX WITH LCD SCREEN</p> <p>USER MANUAL</p> <p>KAMINILCDPB</p>	<p>KickAss Lithium 12V Control Box KAMINILCDPB User Manual</p> <p>User manual for the KickAss Lithium 12V Control Box with LCD Screen (Model KAMINILCDPB). Covers installation, operation, features, specifications, troubleshooting, and BMS alarm modes for optimal power management with KickAss Lithium Batteries.</p>
 <p>KickAss</p> <p>POWERBOSS</p> <p>OWNER'S MANUAL</p> <p>KAPB2K1280</p>	<p>KickAss PowerBoss KAPB2K1280 Owner's Manual</p> <p>Comprehensive owner's manual for the KickAss PowerBoss KAPB2K1280, detailing safety, specifications, features, installation, configuration, and troubleshooting for this 2000W pure sine wave inverter charger.</p>
 <p>KickAss</p> <p>12V 120AH DEEP CYCLE LITHIUM BATTERY</p> <p>OWNER'S MANUAL</p> <p>KAT120BX-LIION</p>	<p>KickAss 12V 120Ah Deep Cycle Lithium Battery Owner's Manual</p> <p>Comprehensive owner's manual for the KickAss 12V 120Ah Deep Cycle Lithium LiFePO4 battery, detailing safety information, product specifications, features, installation guide, and troubleshooting tips.</p>
 <p>KickAss</p> <p>AGM POWERSTATION</p> <p>USER MANUAL</p> <p>KAX12000-AGM</p> <p>WITHOUT 1000C CHARGER</p>	<p>KickAss Jaxbox Powerstation AGM User Manual - Portable 12V Power Solution</p> <p>Comprehensive user manual for the KickAss Jaxbox Powerstation (AGM model). Learn about setup, safety, connections, charging, technical specifications, and troubleshooting for your portable 12V power solution.</p>