SLC10003A

# INSTRUCTION MANUAL

## AUTOMATIC BATTERY CHARGER

**1.5A**

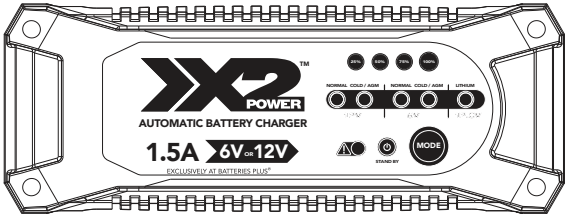
**6V OR 12V**


EXCLUSIVELY AT BATTERIES PLUS®

**Input:**
110-120V AC 60 Hz 0.6A

**Output:**
12V DC 1.5A
6V DC 1.5A
12.8V DC 1.5A

**Charges:**
1 - 6/12V Lead Acid Flooded,
Gel, Maintenance-Free,
AGM Batteries 4Ah - 50Ah




1 - 12.8V Lithium Iron Phosphate (LiFePO4) 3Ah-25Ah

Thank you for purchasing our product. Read the instruction manual thoroughly before use and keep the manual for future reference.

**IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS**

1. SAVE THESE INSTRUCTIONS. DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.
2. This charger is intended for use with with 6/12V Lead Acid Flooded, Gel, Maintenance-Free, AGM Batteries 4Ah-50Ah and LiFePO4 3Ah – 25Ah lithium iron phosphate batteries only. Attempting to charge other types of batteries may cause personal injury and damage to the charger.
3. Do not expose charger to rain, snow or moisture.

4. Operate charger only in well-ventilated areas. Batteries generate explosive gases during normal operation.
5. Wear eye protection when operating charger.
6. Never use an extension cord or any attachment not recommended by manufacturer, otherwise this may result in a risk of fire, electric shock or personal injury.
7. It is recommended that you periodically check the battery charger while charging.
8. To reduce risk of damage to electric plug and cord, pull by the plug rather than cord when disconnecting charger.
9. Do not attempt to charge damaged or frozen batteries.
10. Do not operate the charger if the cord or plug has been damaged or if the charger has been subjected to shock or damage. Take it to a qualified technician for repair.
11. Do not disassemble the charger. Incorrect reassembly may result in a risk of electric shock or fire.
12. Unplug the charger from power source before attempting any maintenance or cleaning. Use lint-free cloth to clean the surface, do not immerse into water.
13. This charger is not intended for use by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge without supervision.
14. ⚠ WARNING - RISK OF EXPLOSIVE GASES **WORKING IN VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE THAT YOU FOLLOW THE INSTRUCTIONS EACH TIME YOU USE THE CHARGER.** To reduce risk of battery explosion, follow these instructions and those published by the battery manufacturer and the manufacturer of any equipment you

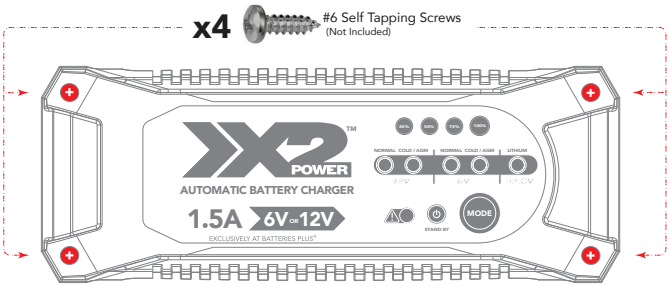
intend to use in the vicinity of the battery. Review cautionary marking on these products and on engine.

**SAFETY & PRECAUTIONS**

1. Someone should be within range of your voice or close enough to come to your aid if you have an accident.
2. Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing or eyes.
3. Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
4. If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.
5. NEVER smoke or allow a spark or flame in vicinity of battery or engine.
6. Remove all jewelry and other metallic items from your hands and body when working with batteries. Metal may spark or create a short circuit resulting in electrical shock, fire or explosion which may result in injury, death or property damage.
7. Always use non-conductive or insulated tools when working with any battery.
8. Use charger for charging LEAD-ACID or LITHIUM IRON PHOSPHATE batteries only. Do not attempt to charge any other type of battery. Charging other battery types may cause injury to persons and damage to property.
9. NEVER USE THE RECOVER MODE FOR A LITHIUM IRON PHOSPHATE BATTERY.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

## MOUNTING



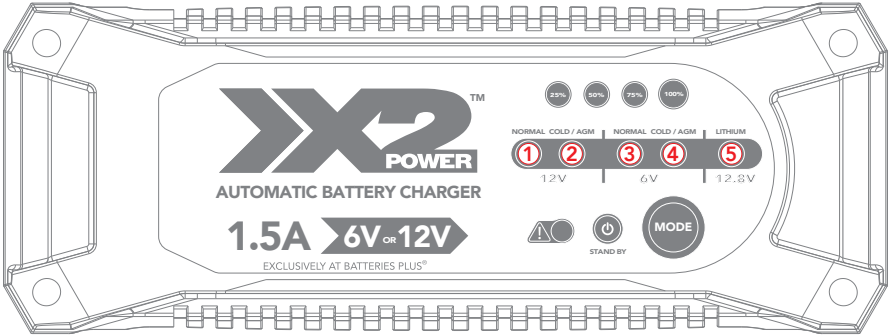

The SLC10003A has four (4) external holes for mounting. Mount the charger in a desired location with #6 self-drill screws. Make sure there are no obstructions behind the mounting surface. The DC cable length from the charger, with the clamp or eyelet, is approximately 23-inches (584.2mm). Allow for 12-inches (340mm) of slack between connections.

## LOCATION

Locate the charger as far away from the battery as possible. Do not place the charger directly above the battery as gases from battery will corrode and damage charger. Do not allow battery acid to come in contact with charger. Do not operate the charger in a closed-in area or an area with restricted ventilation. Do not set battery on top of charger.

## CHARGING MODES

The SLC10003A has five (5) modes. The Lithium charge mode requires the mode button to be pressed and held for three (3) seconds to enter the enhanced mode. This “Enhanced” mode requires your full attention before selecting.



Do not operate the charger until you confirm the appropriate charge mode for your battery. Here is a brief description.

**CHARGING MODES**

| # | VOLTAGE | MODE | DESCRIPTION | OUTPUT | BATTERY SIZE |
|---|---|---|---|---|---|
| 1 | 12V | Normal | For charging 12-volt Flooded, Gel, Maintenance-Free batteries. | 14.5V / 1.5A | 4Ah-50Ah |
| 2 | 12V | Cold/ AGM | For charging 12-volt batteries in cold temperatures below 50°F (10°C) or AGM batteries. When selected, the LED will illuminate. | 14.7V / 1.5A | 4Ah-50Ah |
| 3 | 6V | Normal | For charging 6-volt Flooded, Gel, Maintenance-Free batteries. When selected, the LED will illuminate. | 7.3V / 1.5A | 4Ah-50Ah |
| 4 | 6V | Cold/ AGM | For charging 6-volt batteries in cold temperatures below 50°F (10°C) or AGM batteries. When selected, the LED will illuminate. | 7.4V / 1.5A | 4Ah-50Ah |
| 5 | 12.8V | Lithium | **Press & Hold Mode** For charging 12.8-volt lithium iron phosphate batteries. Lithium mode will only function if the battery voltage is 11.6V or greater. When selected, the LED will illuminate. | 14.5V / 1.5A | 3Ah-25Ah |

## CHARGING TIMES

| BATTERY SIZE (AH) | 12V/6V APPROX. CHARGE TIME (HOURS) |
|---|---|
| 4 | 3 |
| 8 | 5.5 |
| 16 | 11 |

| BATTERY SIZE (AH) | 12V/6V APPROX. CHARGE TIME (HOURS) |
|---|---|
| 32 | 22 |
| 40 | 28 |
| 50 | 35 |

## PREPARING TO CHARGE

1. If necessary to remove battery from vehicle to charge, always remove grounded terminal from battery first. Make sure all accessories in the vehicle are off, so as not to cause an arc.
2. Be sure area around battery is well ventilated while battery is being charged.
3. Clean battery terminals. Be careful to keep corrosion from coming in contact with eyes.
4. Study all battery manufacturer's specific precautions while charging and recommended rates of charge.
5. Determine voltage of battery by referring to vehicle owner's manual and make sure that the output voltage selector switch is set at correct voltage. If charger has adjustable charge rate, charge battery initially at lowest rate.

**CONNECTING TO BATTERY**

1. Set any charger switches to “off” position and remove AC cord from electric outlet before connecting or disconnecting DC output clamps or eyelets. Never allow clamps or eyelets to touch each other.
2. Identify the correct polarity of the battery terminals. The positive battery terminal is typically marked with (POS, P, +). The negative terminal is typically marked with (NEG, N, -).
3. Position cords and cables to reduce risk of damage by hood, door or moving parts (including fan blades, belts, and pulleys) or other parts that could cause injury to persons.
4. Do not connect to carburetor, fuel lines, or sheet-metal body parts.
5. Determine which post of battery is grounded (connected) to the chassis. If negative post is grounded to the chassis (as in most vehicles) see (6). If positive post is grounded to the chassis, see (7).
6. For Negative-grounded vehicle, connect POSITIVE (RED) clamp or eyelet connector from battery charger to POSITIVE (POS, P, +) post of battery. Connect NEGATIVE (BLACK) clamp or eyelet connector from battery charger to the NEGATIVE (NEG, N, -) post of battery.
7. For Positive grounded vehicle, connect NEGATIVE (BLACK) clamp or eyelet connector from battery charger to NEGATIVE (NEG, N, –) post of battery. Connect POSITIVE (RED) clamp or eyelet connector from battery charger to the POSITIVE (POS, P, +) post of battery.
8. When disconnecting charger, turn switches to off, disconnect AC cord, remove connectors in reverse sequence from connecting procedure.

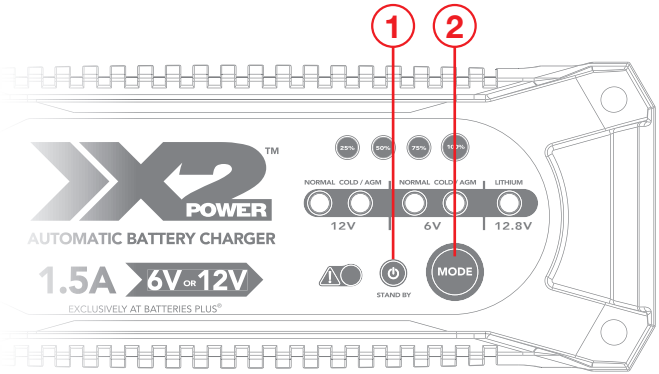
**THE BATTERY CHARGER MUST BE CONNECTED TO THE BATTERY ACCORDING TO THE INSTRUCTIONS ABOVE.**

**STARTING THE CHARGING PROCESS:**

Once you have established that the battery clamps or eyelets have been correctly connected, you can start the charging process. To do so, insert the charger plug into the AC socket.

The charger will start in Stand by mode, indicated by the STAND BY LED (**1**).

Press the MODE BUTTON (**2**) to select the appropriate charge mode (press and hold for three seconds to enter an enhanced charge mode) for the voltage and chemistry of your battery. The selected charge mode LED will illuminate.



**STATE OF CHARGE INDICATORS**

The state-of-charge (SOC) LED display has four (4) SOC indicators.

| | LED | EXPLANATION |
|---|---|---|
|   | 25% Red LED | The LED will flash when the battery is less than 25% charged. When the battery is 25% charged, the LED will be solid. |
|   | 50% Orange LED | The LED will flash when the battery is less than 50% charged. When the battery is 50% charged, the LED will be solid. |
|   | 75% Yellow LED | The LED will flash when the battery is less than 75% charged. When the battery is 75% charged, the LED will be solid. |
|   | 100% Green LED | The LED will flash when the battery is less than 100% charged. When the battery is 100% charged, the LED will be solid. |

## TROUBLESHOOTING

Error conditions are indicated in the  LED display.

| ERROR | REASON/SOLUTION | |
|---|---|---|
|  **Solid Red LED** | Standard Charging Mode | The battery is not accepting a charge. Change charge mode to Recovery Mode. |
| | Recovery Mode | The battery cannot be recovered. |
|  **Flashing Yellow LED** | Battery capacity may be too high for the selected mode. Verify the battery capacity and charge mode. If battery capacity is in range, change charge mode to Recovery Mode. | |
|  **Solid Yellow LED** | Battery voltage is too high or too low for the selected mode. Verify the battery voltage and charge mode. | |
|  **Flashing Red LED** | Reverse polarity. Reverse the battery connections. | |

**NOTES**

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This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the Party responsible for compliance could void the user's authority to operate the equipment.

Limited 5 Year Warranty: This product is warranted to be free of defects in material and workmanship for 5 years from date of purchase, dated receipt required. Defective product will be replaced or substituted with a product of equal value. This is your sole remedy in lieu of all other remedies, including consequential damages (see website for additional terms and conditions). Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. For warranty service, call 1-888-9-ASCENT. This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state.

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