



Trickle Charger - N1

Quick Start Guide

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Safety & Warranty Information

DANGER



READ AND UNDERSTAND ALL SAFETY INFORMATION BEFORE USING THIS PRODUCT. Failure to follow these safety instructions may result in **ELECTRICAL SHOCK, EXPLOSION, FIRE**, which may result in a **SERIOUS INJURY, DEATH, or PROPERTY DAMAGE**.



Electrical Shock: Product is an electrical device that can shock and cause serious injury. Do not cut power cords. Do not submerge in water or get wet.



Explosion : Unmonitored, incompatible, or damaged batteries can explode if used with product. Do not leave product unattended while in use. Do not attempt to jump start a damaged or frozen battery. Use product only with batteries of recommended voltage. Operate product in well ventilated areas.



Fire : Product is an electrical device that emits heat and is capable of causing burns. Do not cover product. Do not smoke or use any source of electrical spark or fire when operating product. Keep product away from combustible materials.



Eye Injury : Wear eye protection when operating product. Batteries can explode and cause flying debris. Battery acid can cause eye and skin irritation. In the case of contamination of eyes or skin, flush affected area with running clean water and contact poison control immediately.



Explosive Gases : Working in the vicinity of a lead-acid is dangerous. Batteries generate explosive gases during normal battery operation. To reduce risk of battery explosion, follow all safety information instructions and those published by the battery manufacturer and manufacturer of any equipment intended to be used in the

vicinity of battery. Review cautionary markings on these products and on engine.

Important Safety Warnings

Getting Started: Before using the charger, carefully read the battery manufacturer's specific precautions and recommended rates of charge for the battery. Make sure to determine the voltage and chemistry of the battery by referring to your battery owner's manual prior to charging.

Mounting : The N1 is a direct wall plug-in charger, and it is important to keep in mind the distance to the battery. The DC cable length from the charger, with either the battery clamp or eyelet terminal connectors, is approximately 107.2 inches (2722.9mm). Allow for 12-inches (304mm) of slack between connections.

Personal Precaution : Only use product as intended. Someone should be within range of your voice or close enough to come to your aid in case of emergency. Have a supply of clean water and soap nearby in the case of battery acid contamination. Wear complete eye protection and protective clothing while working near a battery. Always wash hands after handling batteries and related materials. Do not handle or wear any metal objects when working with batteries including; tools, watches or jewelry. If metal is dropped onto battery, it may spark or create a short circuit resulting in electrical shock, fire, explosion which may result in injury, death or property damage.

Minors : If the product is intended by "Purchaser" to be used by a minor, purchasing adult agrees to provide detailed instructions and warnings to any minor prior to use. Failure to do so is the sole responsibility of the "Purchaser," who agrees to indemnify the manufacturer for any unintended use or misuse by a minor.

Choking Hazard: Accessories may present a choking hazard to children. Do not leave children unattended with product or any accessory. The product is not a toy.

Handling : Handle product with care. The product can become damaged if impacted. Do not use a damaged product, including, but not limited to, cracks to the casing or damaged cables. Do not use product with a damaged power cord. Humidity and liquids may damage product. Do not handle product or any electrical components near any liquid. Store and operate product in dry locations. Do not operate product if it becomes wet. If product is already operating and becomes wet, disconnect it from the battery and discontinue use immediately. Do not disconnect the product by pulling on the cables.

Modifications : Do not attempt to alter, modify or repair any part of the product. Disassembling the product may cause injury, death or damage to property. If the product becomes damaged, malfunctions or comes in contact with any liquid, discontinue use, and contact the manufacturer. Any modifications to the product will void your warranty. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Accessories : This product is only approved for use with approved accessories. The manufacturer is not responsible for user safety or damage when using unapproved accessories.

Location : Prevent battery acid from coming in contact with the product. Do not operate the product in a closed-in area or an area with restricted ventilation. Do not set a battery on top of product. Position cable leads to avoid accidental damage by moving vehicle parts (including hoods and doors), moving engine parts (including fan blades, belts, and pulleys), or what could become a hazard that may cause injury or death.

Operating Temperature : This product is designed to work in ambient temperatures between -4°F and 104°F (-20°C and 40°C). Do not operate outside of temperature ranges. Do not charge a frozen battery. Discontinue use of product immediately if the battery becomes excessively warm.

Storage : Do not use or store your product in areas with high concentrations of dust or airborne materials. Store your product on

flat; secure surfaces so it's not prone to falling. Store your product in a dry location. The storage temperature is between -22°F and 140°F (-30°C and 60°C) (average temperature). Never exceed 175°F (80°C) under any condition.

Compatibility : The product is only compatible with 6V & 12-volt Lead-Acid, AGM, and Lithium batteries. Do not attempt to use product with any other type of battery. Charging other battery chemistries may result in injury, death or property damage. Contact the battery manufacturer prior to attempting to charge the battery. Do not charge a battery if you are unsure of the battery's specific chemistry or voltage.

Medical Devices : Product may emit electromagnetic fields. Product contains magnetic components which may interfere with pacemakers, defibrillators, or other medical devices. These electromagnetic fields may interfere with pacemakers or other medical devices. Consult with your physician prior to use if you have any medical device including pacemakers. If you suspect the product is interfering with a medical device, stop using the product immediately and consult your physician.

Cleaning : Power off the product before attempting any maintenance or cleaning. Clean and dry product immediately if it comes in contact with liquid or any type of contaminant. Use a soft, lint-free (micro fiber) cloth. Avoid getting moisture in openings.

Explosive Atmospheres : Obey all signs and instructions. Do not operate product in any area with a potentially explosive atmosphere, including fueling areas or areas which contain chemicals or particles such as grain, dust or metal powders.

High-Consequence Activities : This product is not intended for use where the failure of the product could lead to injury, death or severe environmental damage.

Radio Frequency Interference : Product is designed, tested, and manufactured to comply with regulations governing radio frequency emissions. Such emissions from the product can negatively affect the operation of other electronic equipment,

causing them to malfunction.

Model Number: N1 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.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Hassle-Free Warranty

The manufacturer warrants that this product (the "Product") will be free from defects in material and workmanship for a period of One (1) year from the date of purchase (the "Warranty Period"). For defects reported during the Warranty Period, the manufacturer will, at its discretion, and subject to its technical support analysis, either repair or replace defective products. Replacement parts and products will be new or serviceably used, comparable in function and performance to the original part and warranted for the remainder of the original Warranty Period.

THE MANUFACTURER'S LIABILITY HEREUNDER IS EXPRESSLY LIMITED TO REPLACEMENT OR REPAIR. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE MANUFACTURER SHALL NOT BE LIABLE TO ANY PURCHASER OF THE PRODUCT OR ANY THIRD PARTY FOR ANY SPECIAL, INDIRECT, CONSEQUENTIAL OR EXEMPLARY DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, PROPERTY DAMAGE OR PERSONAL INJURY, RELATED IN ANY WAY TO THE PRODUCT, HOWSOEVER CAUSED, EVEN IF THE MANUFACTURER HAD KNOWLEDGE OF THE POSSIBILITY OF

ALL OTHER WARRANTIES, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND THOSE ARISING FROM COURSE OF DEALING, USAGE OR TRADE PRACTICE. IN THE EVENT THAT ANY APPLICABLE LAWS IMPOSE WARRANTIES, CONDITIONS OR OBLIGATIONS THAT CANNOT BE EXCLUDED OR MODIFIED, THIS PARAGRAPH SHALL APPLY TO THE GREATEST EXTENT ALLOWED BY SUCH LAWS.

This Warranty is made solely for the benefit of the original purchaser of the Product from the manufacturer or from an authorized reseller or distributor of the manufacturer and is not assignable or transferable. To assert a warranty claim, the purchaser must: (1) request and obtain a return merchandise authorization ("RMA") number and return location information (the "Return Location") from the manufacturer's support team by emailing care@rexingusa.com; and (2) send the Product, including RMA number, and receipt to the Return Location. DO NOT SEND IN PRODUCT WITHOUT FIRST OBTAINING AN RMA FROM THE MANUFACTURER'S SUPPORT TEAM.

The original purchaser is responsible (and must prepay) all packaging and transportation costs to ship products for warranty service.

NOTWITHSTANDING THE ABOVE, THIS HASSLE-FREE WARRANTY IS VOID AND DOES NOT APPLY TO PRODUCTS THAT: (a) are misused, mishandled, subjected to abuse or careless handling, accident, improperly stored, or operated under conditions of extreme voltage, temperature, shock, or vibration beyond the manufacturer's recommendations for safe and effective use; (b) improperly installed, operated or maintained; © are/were modified without the express written consent of the manufacturer; (d) have been disassembled, altered or repaired by anyone other than the manufacturer; (e) the defects of which were reported after the Warranty Period. THIS HASSLE-FREE WARRANTY DOES NOT COVER: (1) normal wear and tear; (2) cosmetic damage that does not affect functionality; or (3) Products where the manufacturer's serial number is missing, altered, or defaced.

1. Overview

Thank you for choosing **Rexing!**

We hope you love your new products as much as we do. If you need any assistance, or have any suggestions to help us improve, please contact us.

 care@rexingusa.com

 (877) 740-8004

Our support team will respond to you as soon as possible.
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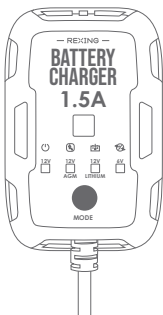


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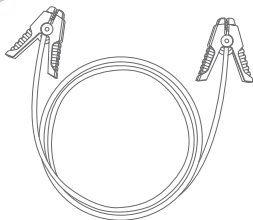


2. What's in the Box

1.



2.

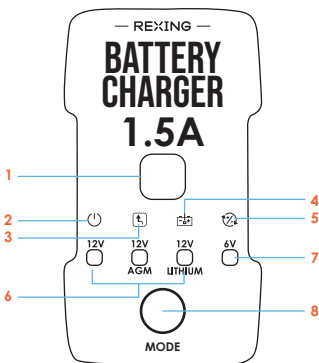


3.



1. Rexing N1 Trickle Charger
2. Jumper Cable
3. User Manual

3. Product Overview



1. **Charge LED** indicates the connected battery(s) state-of-charge.
2. **Standby LED** Illuminates when the charger is in Standby Mode, the charger is not charging or providing any power to the battery.
3. **Overvoltage Error LED** Illuminates solid Red; Battery Voltage is above Protect voltage.
4. **Bad Battery Error LED** Illuminates solid Red when connected battery will not hold a charge.
5. **Reverse Polarity Error LED** Illuminates solid Red when reverse polarity is detected.
6. **Mode LED** Indicates the Charge Mode the charger is currently in. Push the MODE button to cycle through charge Modes.
7. **[Press and Hold] Mode LED** Mode button must be pressed and held for 3 seconds to enter the mode.
8. **Mode Button** Push to cycle through charging Modes.

4. Getting Started

4.1 Charging Modes

The N1 has six (6) modes: Standby, 12V, 12V AGM, 12V LITHIUM, 6V and Force. Some charge modes must be pressed and held for three (3) to five (5) seconds to enter the mode. These “Press and Hold” modes are advanced charging modes that require your full attention before selecting. It is important to understand the differences and purpose of each charge mode. Always check with battery manufacturer to confirm the right charge mode for your specific battery. Do not operate the charger until you confirm the appropriate charge mode for your battery. Below is a brief description:

MODE	Explanation (Peak Voltage Measured At 25°C, Amperage Rating Is Bulk Amperage When Above 0°C)
Standby	In Standby mode, the charger is not charging or providing any power to the battery. Energy Save is activated during this mode, drawing microscopic power from the electrical outlet. Canbus is enabled in Standby mode. When in Standby, the orange Standby LED will illuminate.
	No power
12V	For charging 12-volt Wet Cell, Gel Cell, Enhanced Flooded, Maintenance-Free and Calcium batteries. When selected, the 12V white LED will illuminate.
	14.5V 1.5A Up To 30Ah Batteries
AGM	For charging 12-volt AGM batteries. When selected, the 12V AGM white LED will illuminate.
	14.8V 1.5A Up To 30Ah Batteries

12V Li	For charging 12-volt lithium-ion batteries, including lithium iron phosphate. When selected, the 12V Lithium blue LED will illuminate. For use on batteries with Battery Management Systems (BMS) only
	14.8V 1.5A Up To 30Ah Batteries
6V Press & Hold (3 Seconds)	For charging 6-volt Wet Cell, Gel Cell, Enhanced Flooded, Maintenance-Free and Calcium batteries. When selected, the 6V white LED will illuminate.
	7.25V 1.5A The purchased item is a 30Ah battery
Recovery Mode Press & Hold (5 Seconds)	For charging batteries with a voltage lower than 1V. Press and Hold for five (5) seconds to enter Recovery Mode. The selected charge mode will then operate under Recovery Mode for five (5) minutes before returning to standard charging in the selected mode.
	1.5A The purchased item is a 30Ah battery

4.2 Using 6V [Press & Hold for 3 seconds]

6V charge mode is designed for 6-volt lead-acid batteries only, like Wet Cell, Gel Cell, Enhanced Flooded, Maintenance-Free and Calcium batteries. Press and hold for three (3) seconds to enter 6V Charge Mode. Consult the battery manufacturer before using this mode.

4.3 Using 12V Lithium

12V Lithium charge mode is designed for 12-volt lithium-ion batteries only, including lithium iron phosphate.

CAUTION. USE THIS MODE WITH EXTREME CARE. THIS MODE SHOULD ONLY BE USED WITH 12-VOLT LITHIUM BATTERIES THAT HAVE A BUILT-IN BATTERY MANAGEMENT SYSTEM (BMS). LITHIUM-ION BATTERIES ARE MADE AND CONSTRUCTED IN DIFFERENT WAYS AND SOME MAY OR MAY NOT CONTAIN A BATTERY MANAGEMENT SYSTEM (BMS).

CONSULT THE LITHIUM BATTERY MANUFACTURER BEFORE CHARGING AND ASK FOR RECOMMENDED CHARGING RATES AND VOLTAGES. SOME LITHIUM-ION BATTERIES MAY BE UNSTABLE AND UNSUITABLE FOR CHARGING.

4.4 Recovery Mode [Press & Hold for 5 seconds]

Recovery mode allows the charger to manually begin charging when the connected battery's voltage is too low to be detected. If battery voltage is too low for the charger to detect, press and hold the mode button for 5 seconds to activate Recovery Mode, then select the appropriate mode. All available modes will flash. Once a charge mode is selected, the Charge Mode LED and Charge LED will alternate between each other, indicating Recovery Mode is active. After five (5) minutes the charger will return to the normal charge operation and low voltage detection will be reactivated.

CAUTION. USE THIS MODE WITH EXTREME CARE. RECOVERY MODE DISABLES SAFETY FEATURES AND LIVE POWER IS PRESENT AT THE CONNECTORS. ENSURE ALL CONNECTIONS ARE MADE PRIOR TO ENTERING RECOVERY MODE, AND DO NOT TOUCH CONNECTIONS TOGETHER. RISK OF SPARKS, FIRE, EXPLOSION, PROPERTY DAMAGE, INJURY, AND DEATH.

5. Connecting to the Battery

Do not connect the AC power plug until all other connections are made. Identify the correct polarity of the battery terminals on the battery. The positive battery terminal is typically marked by these letters or symbol (POS, P, +). The negative battery terminal is typically marked by these letters or symbol (NEG, N, -). Do not make any connections to the carburetor, fuel lines, or thin, sheet metal parts.

5.1 Follow These Steps When Battery Is Installed In Vehicle

WARNING: A SPARK NEAR THE BATTERY MAY CAUSE A BATTERY EXPLOSION. TO REDUCE THE RISK OF A SPARK NEAR THE BATTERY:

1. Position AC and DC cords to reduce risk of damage by hood, door, or moving engine part.
2. Stay clear of fan blades, belts, pulleys, and other parts that can cause injury to persons.
3. Check polarity of battery terminals. The POSITIVE (POS, P, +) battery terminal usually has a larger diameter than the NEGATIVE (NEG, N, -) battery terminal.
4. Determine which battery terminal is grounded (connected) to the chassis. If negative battery terminal is grounded to chassis (as in most vehicles), see Step 5. If positive battery terminal is grounded to the chassis, see Step 6.
5. For negative-grounded vehicle only, connect POSITIVE (RED) battery clamp or eyelet terminal connector from battery charger to POSITIVE (POS, P, +) ungrounded battery terminal. Connect NEGATIVE (BLACK) battery clamp or eyelet terminal connector to vehicle chassis or engine block away from battery. Connect to a heavy gauge metal part of the frame or engine block.
6. For positive-grounded vehicle only, connect NEGATIVE (BLACK) battery clamp or eyelet terminal connector from battery charger to NEGATIVE (NEG, N, -) ungrounded battery terminal. Connect POSITIVE (RED) battery clamp or eyelet terminal connector to vehicle chassis or engine block away from battery. Connect to a heavy gauge metal part of the frame or engine block.
7. Connect the battery charger into a suitable electrical outlet. Do not face the battery when making this connection.
8. When disconnecting the battery charger, disconnect in the reverse sequence, removing the negative first (or positive first for positive ground systems).

5.2 Follow These Steps When Battery Is Outside Vehicle

WARNING: A SPARK NEAR THE BATTERY MAY CAUSE A BATTERY EXPLOSION. TO REDUCE THE RISK OF A SPARK NEAR THE BATTERY:

1. Check polarity of battery terminals. The POSITIVE (POS, P, +) battery terminal usually has a larger diameter than the NEGATIVE (NEG, N, -) battery terminal.
2. Attach at least a 24-inch-long 6-gauge (AWG) insulated battery cable to NEGATIVE (NEG, N, -) battery terminal.
3. Connect POSITIVE (RED) battery clamp or eyelet terminal connector from battery charger to POSITIVE (POS, P, +) battery terminal.
4. Position yourself and free end of cable as far away from battery as possible - then connect NEGATIVE (BLACK) battery clamp or eyelet terminal connector to free end of cable.
5. Connect the battery charger into a suitable electrical outlet. Do not face the battery when making this connection.
6. When disconnecting charger, always do so in reverse sequence of connecting procedure and break first connection while as far away from battery as practical.
7. A marine (boat) battery must be removed and charged on shore. To charge it on board requires equipment specially designed for marine use.

5.3 Begin Charging

1. Verify the voltage and chemistry of the battery.
2. Confirm that you have connected the battery clamps or eyelet terminal connectors properly and the AC power plug is plugged into an electrical outlet.
3. [First time use] The charger will begin in Standby mode, indicated by an orange LED. In Standby, the charger is not providing any power.
4. Press the mode button to toggle to the appropriate charge mode (press and hold for three seconds to enter an advanced charge mode) for the voltage and chemistry of your battery.
5. The mode LED will illuminate the selected charge mode and

the Charge LEDs will illuminate (depending on the health of the battery) indicating the charging process has started.

6. The charger can now be left connected to the battery at all times to provide maintenance charging.

Auto-Memory: The charger has built in auto-memory and will return to the last charge mode when connected. To change modes after the first use, press the mode button.

5.4 Charging Times

The estimated time to charge a battery is shown below. The size of the battery (Ah) and its depth of discharge (DOD) greatly affect its charging time. The charge time is based on an average depth of discharge to a fully charged battery and is for reference purposes only. Actual data may differ due to battery conditions. The time to charge a normally discharged battery is based on a 50% DOD. Temperature will also impact charging times. The N1 features thermal compensation that automatically adjusts charging profiles to maximize charging performance.

Battery Size Ah	Approx. Time to Charge In Hours	
	6V	12V
8	5.3	5.3
12	8.0	8.0
18	12.0	12.0
24	16.0	16.0
30	20.0	20.0

5.5 Understanding Charge LEDs

The charger has one (1) Charge LED. This Charge LED indicates the connected battery(s) state-of-charge (SOC). See the explanation below:

LED	Explanation
Pulsing Red LED	The Charge LED will slowly pulse "on" and "off" when the battery is less than 75% fully charged.
Pulsing Green LED	When the battery is 100% charged, the Charge LED will be solid green.
Solid Green LED	Bulk charge complete, optimizing battery for extended life.
Maintenance Green LED	After the battery is fully charged, the charger will continue monitoring the battery, and provide ongoing maintenance and optimization. The 100% Charge LED will pulse "on" and "off" slowly during these cycles. The charger can be left connected to the battery indefinitely

5.6 Understanding Error LEDs

Error Conditions will be indicated by the following LEDs.

LED	Reason/Solution
 Solid	Charger is in Standby mode or Battery voltage is too low for charger to detect.
 Solid	Battery voltage is too high for the selected charge mode / Check the battery and charge mode.

 Solid	Possible battery short / Battery will not hold a charge. Have battery checked by a professional.
 Solid	Reverse polarity / Reverse the battery connections.
 Flashing	Charger internal temperature too high / Charger will resume function once the Charger internal temperature drops. Charger ambient temperature too cold / Charger will resume function once the Charger ambient temperature rises.

6. Technical Specifications

Input Voltage AC: 100-240 VAC, 50-60Hz

Working Voltage AC: 100-240 VAC, 50-60Hz

Output Power: 18W Max

Charging Voltage: Various

Charging Current: 1.5A (12V), 1.5A (6V)

Low-Voltage Detection: 1V (12V), 1V (6V)

Back Current Drain: <0.5mA

Operating Temperature: -4°F to 104°F (-20°C to 40°C)

Storage Temperature: - 22°F to 140°F (-30°C to 60°C)

Type of Batteries: 6V & 12V

Battery Chemistries: Wet, Gel, MF, CA, EFB, AGM, Lithium.

Battery Capacity: Up to 30Ah, Maintains All Battery Sizes Housing

Protection: IP65

Cooling: Natural Convection

Dimensions (W x D x H): 2.32 x 1.26 x 3.62 Inches (59 x 32x92mm)

Weight: 0.72 Pounds (0.33kg)

Warranty & Support

Warranty

The Rexing N1 Trickle Charger comes with a full 12-month warranty. If you register your product on our official site (<https://www.rexingusa.com/support/registration>), you can extend the warranty to 18 months.

Support

If you have any questions regarding your product, please do not hesitate to contact us at care@rexingusa.com, or call us at (877) 740-8004. Queries are typically answered within 12-24 hours.

Your opinion matters

Rexing is firmly committed to always improving our products, services, and user experience. If you have any thoughts on how we can do even better, we welcome your constructive feedback and suggestions.

Connect with us today at care@rexingusa.com

Thank you for choosing Rexing!

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Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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