

## NOCO GENIUS2DEU

# NOCO GENIUS2DEU Onboard Battery Charger User Manual

Model: GENIUS2DEU | Brand: NOCO

## 1. INTRODUCTION

Discover the GENIUS2DEU, one of our most powerful, efficient, energy-saving, and compact universal portable battery chargers to date. The GENIUS2DEU is a robust 2A (28W) - 100-240V AC 50-60Hz - 6V and 12V battery charger, battery maintainer, trickle charger, float charger, and battery desulfator for up to 40 Amp-hours. It is designed to charge and maintain all types of sealed lead-acid and lithium-ion (LiFePO4) batteries, including flooded, gel, maintenance-free, AGM, SLA, VRLA batteries, as well as automotive, marine, RV, powersport, and deep-cycle batteries. Its advanced battery repair regeneration mode uses slow pulse reconditioning technology to automatically detect battery sulfation and acid stratification, restoring lost battery performance for extended battery life. It can be used and stored almost anywhere - at home, in a garage, mobile, on a bench, or in a car - to charge and maintain any battery - even plugged in via your vehicle's 12V auxiliary cigarette lighter port. Its new generation charging regimen uses fast-charge microprocessor technology to quickly recharge batteries without any manual intervention. This is a fully automatic, worry-free, professional, and commercial-grade smart battery charger, without overcharging. Designed for dual use - both indoors and outdoors - providing weather and water protection against outdoor elements at any time of the year, including winter. Its X-Connect battery connectors - better than SAE - allow for permanent quick-connect or direct connection to battery terminals. A digital display provides charge status and tests diagnostics for multiple conditions such as a discharged battery, a faulty battery, reverse polarity, etc. And it is compatible with all types of gasoline and diesel vehicles, including cars, automobiles, motorcycles, dirt bikes, scooters, mopeds, lawnmowers, ATVs, UTVs, lawn tractors, trailers, trucks, SUVs, boats, RVs, jet skis, personal watercraft, snowmobiles, snowmobiles, 4-wheelers, generators, golf carts, classic cars, including BMW, Mercedes-Benz, Renault, Peugeot, Citroën, Ford, Audi, VW, Harley-Davidson, Yamaha, Honda, Kawasaki, KTM, Ducati and more.

## 2. KEY FEATURES

- **Direct Mount Design:** The GENIUS2DEU is a direct-mount onboard battery charger for under-hood battery charging and year-round maintenance.
- **Secure Installation:** Securely installs near the battery with its robust snap-on mounting bracket and can be effortlessly installed into most materials using pan-head self-tapping screws.

- **Precise Temperature Compensation:** An integrated thermal sensor detects ambient temperature and modifies the charge to prevent overcharging in hot climates and undercharging in cold climates.
- **Charges Discharged Batteries:** Capable of charging batteries as low as 1 volt, including flooded, gel, AGM, automotive, marine, and deep-cycle batteries.
- **Battery Restoration:** Automatically detects battery sulfation and acid stratification to restore lost battery performance, leading to more powerful engine starts and extended battery life.
- **Advanced Battery Maintainer:** More than just a trickle charger, it's an advanced maintainer that monitors your battery 24/7, providing intuitive and safe maintenance charging without overcharging.
- **Universal Compatibility:** Compatible with all types of gasoline and diesel vehicles, including cars, boats, trucks, tractors, and more.

### 3. SETUP GUIDE

Follow these steps to set up your NOCO GENIUS2DEU battery charger:

1. **Unpack the Charger:** Carefully remove all components from the packaging. Verify that all items listed in the 'What's in the Box' section are present.
2. **Choose Mounting Location:** Select a secure location near the battery, preferably under the hood, that is protected from direct engine heat and excessive vibration. The charger is designed for harsh environments but optimal placement enhances longevity.
3. **Mount the Charger:** Use the snap-on mounting bracket and self-tapping screws (included) to securely fasten the charger to a suitable surface. Ensure the charger is stable and not prone to movement.
4. **Connect to Battery:** Connect the integrated eyelet terminals to your battery posts. Connect the RED (+) terminal to the positive battery post and the BLACK (-) terminal to the negative battery post. Ensure connections are tight and secure.
5. **Plug into Power:** Once the battery connections are secure, plug the AC power cord into a suitable electrical outlet. The charger will automatically begin its charging process.

**Safety Note:** Always ensure proper polarity when connecting to the battery. Avoid connecting or disconnecting the charger while it is plugged into an AC outlet.

### 4. OPERATING INSTRUCTIONS

The NOCO GENIUS2DEU is designed for fully automatic, worry-free operation. Once connected and plugged in, it will intelligently manage your battery's charge.

- **Automatic Charging:** The charger will automatically detect the battery type (6V or 12V) and condition, then initiate the appropriate charging cycle. The digital display will indicate the charge status.
- **Temperature Compensation:** The integrated thermal sensor will adjust the charge based on ambient temperature, optimizing performance in both hot and cold conditions.
- **Battery Repair Mode:** If sulfation or acid stratification is detected, the charger will automatically engage its repair mode to restore lost battery capacity.
- **Maintenance Mode:** Once the battery is fully charged, the GENIUS2DEU will switch to a maintenance (float)

mode, preventing overcharging and keeping the battery optimally charged for extended periods. It can be left connected 24/7.

- **Status Indicators:** Pay attention to the LED indicators on the charger for real-time status updates, including charging progress, error conditions, and full charge indication.

## 5. MAINTENANCE

Proper maintenance ensures the longevity of your NOCO GENIUS2DEU charger and the batteries it services.

- **Keep Clean:** Regularly wipe down the charger with a dry cloth to remove dust and debris. Do not use harsh chemicals or abrasives.
- **Inspect Cables:** Periodically check the charging cables and connectors for any signs of damage, fraying, or corrosion. Replace if necessary.
- **Terminal Care:** Ensure battery terminals are clean and free of corrosion for optimal connection. Use a wire brush if needed.
- **Storage:** When not in use, store the charger in a cool, dry place. If permanently mounted, ensure it remains free from excessive moisture or extreme temperatures beyond its operating range.
- **Battery Health:** Even with a maintainer, it's good practice to periodically check your battery's fluid levels (if applicable) and overall health.

## 6. TROUBLESHOOTING

If you encounter issues with your NOCO GENIUS2DEU, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not turning on/no lights	No AC power; Faulty outlet; Damaged charger.	Check AC power connection. Try a different outlet. Inspect charger for damage.
Charger not charging battery	Incorrect battery connection (reverse polarity); Battery too low (below 1V); Faulty battery.	Verify correct polarity (+ to +, - to -). Ensure battery voltage is above 1V. Test battery with a different device or have it professionally checked.
Error indicator light is on	Reverse polarity; Short circuit; Over-voltage; Internal fault.	Disconnect and reconnect correctly. Check for short circuits in cables. If problem persists, contact support.

Problem	Possible Cause	Solution
Charging takes too long	Battery capacity is larger than recommended; Battery is deeply discharged; Extreme temperatures.	The GENIUS2DEU is designed for batteries up to 40Ah. Larger batteries will take significantly longer. Allow more time or consider a higher amperage charger for larger batteries. Ensure charger is not in extreme temperatures.

## 7. SPECIFICATIONS

Feature	Detail
Brand	NOCO
Model Number	GENIUS2DEU
Color	Black
Product Dimensions	8.7D x 16.5W x 8.8H centimeters
Output Voltage	12 Volts (DC)
Input Voltage	12 Volts
Current Rating	2 Amps
Compliant Specifications	CE, WEEE, RoHS
Manufacturer Warranty	3 years
Spare Parts Availability	2 Years (EU)
ASIN	B087XHDPPM
UPC	046221180145

## 8. WHAT'S IN THE BOX

- GENIUS2D 2A Direct-Mount Smart Battery Charger and Battery Maintainer with Integrated Eyelet Terminals
- Battery Charger User Guide
- 3-Year Limited Warranty

## 9. PRODUCT VISUALS

### Images



The NOCO GENIUS2DEU 2A Onboard Battery Charger, featuring its compact design and integrated eyelet terminals for direct battery connection.

# MONTAGE DIRECT.

CHARGEUR EMBARQUÉ ET MAINTENEUR  
DE BATTERIE.



## MONTAGE.

Support de montage encliquetable  
pour une installation facile.

## SOUS LE CAPOT.

Conçu pour les compartiments  
moteurs à haute température.

The NOCO GENIUS2DEU charger securely installed under a vehicle's hood, demonstrating its direct mount capability for onboard battery maintenance.



**DENSITÉ DE PUISSANCE MAXIMALE.  
CONCEPTION ULTRA-COMPACTE.**

**EFFICACITÉ MAXIMUM.**  
Jusqu'à 87 % d'efficacité.



An internal view of the NOCO GENIUS2DEU, highlighting its maximum power density and ultra-compact design for efficient operation.

# COMPENSATION DE TEMPÉRATURE. S'ADAPTE À TOUS LES CLIMATS.

104°F  
40°C

-4°F  
-20°C



## CLIMAT CHAUD.

Évite la surcharge par temps chaud.

## CLIMAT FROID.

Évite la sous-charge par temps froid.

The NOCO GENIUS2DEU demonstrating its temperature compensation feature, adapting charging based on ambient temperature for optimal performance in all climates.



**COMPLÈTEMENT  
AUTOMATIQUE.**  
PLUG-N-PLAY.

**POUR RECHARGER  
TOUTE L'ANNÉE.**

Laissez branché 24 h.

**AUCUNE  
SURCHARGE.**

Aucun problème de  
recharge.

**RÉPARATION  
AUTOMOBILE.**

Détecte et répare la  
sulfatation de la batterie.

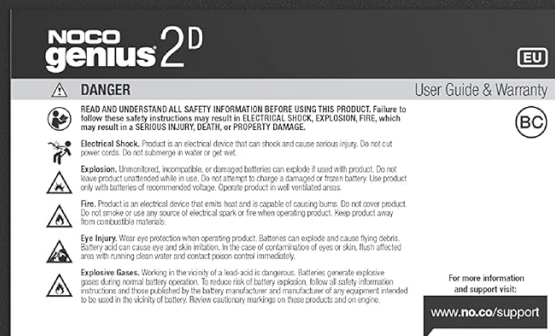


A close-up of the NOCO GENIUS2DEU, illustrating its fully automatic, plug-n-play operation with a clear status indicator.

# CONTENU DE LA BOÎTE.

24"

24"



An overview of all items included in the box with the NOCO GENIUS2DEU, including the charger, user guide, and warranty information.

## Videos







This video provides a detailed close-up view of the NOCO GENIUS2DEU charger, showcasing its design and features from various angles.

An official product video demonstrating the NOCO GENIUS2DEU 2A Direct Mount Smart Charger, highlighting its capabilities as a 12V battery charger and maintainer.

## 10. WARRANTY AND SUPPORT

The NOCO GENIUS2DEU comes with a **3-year manufacturer's limited warranty**, covering defects in material and workmanship from the date of purchase. For warranty claims or technical support, please visit the official NOCO website or contact their customer service. Keep your proof of purchase for warranty validation.

Related Documents - GENIUS2DEU

	<p><a href="#">NOCO Genius10EU Smart Battery Charger User Guide &amp; Warranty</a></p> <p>The NOCO Genius10EU is an advanced 6V and 12V smart battery charger, maintainer, and desulfator designed for all types of lead-acid and lithium batteries up to 230Ah. This user guide provides essential safety information, operating instructions, charging modes, technical specifications, and warranty details for optimal product use and battery maintenance.</p>
	<p><a href="#">NOCO Genius Multi-Bank Series Battery Charger User Guide &amp; Warranty</a></p> <p>Comprehensive user guide and warranty information for NOCO Genius Multi-Bank Series battery chargers (GENIUS2X2, GENIUS2X4), covering safety, charging modes, technical specifications, and warranty details.</p>
	<p><a href="#">NOCO GENIUS2 Smart Battery Charger: User Guide &amp; Warranty</a></p> <p>User guide and warranty information for the NOCO GENIUS2 smart battery charger. Covers essential safety precautions, detailed charging modes, compatibility with 6V/12V Lithium, AGM, and various lead-acid batteries up to 40Ah, and technical specifications.</p>
	<p><a href="#">NOCO Genius5EU Smart Battery Charger User Guide &amp; Warranty</a></p> <p>Explore the NOCO Genius5EU, a versatile 6V and 12V smart battery charger and maintainer. This user guide provides essential safety warnings, detailed instructions for various charging modes including Lead-Acid and Lithium batteries, troubleshooting tips, and warranty information for optimal battery care.</p>
	<p><a href="#">NOCO GENIUS1 1A Smart Battery Charger and Maintainer   Charge Dead Batteries</a></p> <p>The NOCO GENIUS1 is a 1A smart battery charger and maintainer for 6V and 12V lead-acid and lithium batteries. Features include zero-volt charging, thermal compensation, and advanced diagnostics for automotive, marine, RV, and powersport applications.</p>
	<p><a href="#">NOCO GENIUS10 User Guide &amp; Warranty</a></p> <p>Discover the NOCO GENIUS10, an advanced 6V and 12V battery charger and maintainer. This user guide provides essential safety information, detailed charging modes (including Lithium, AGM, and Repair), technical specifications, and warranty details for optimal battery care and performance. Ideal for lead-acid and lithium-ion batteries up to 230Ah.</p>