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› [NOVOPAL DLCD3000PEU24 3000W Pure Sine Wave Power Inverter User Manual](#)

NOVOPAL DLCD3000PEU24

NOVOPAL DLCD3000PEU24 3000W Pure Sine Wave Power Inverter User Manual

Model: DLCD3000PEU24 | Brand: NOVOPAL

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your NOVOPAL DLCD3000PEU24 3000W Pure Sine Wave Power Inverter. Please read these instructions carefully before installation and use to ensure proper functionality and safety.

Safety Information

- Ensure proper ventilation around the inverter. Do not block air vents.
- Do not expose the inverter to water, rain, or excessive moisture.
- Connect the inverter to a 24V DC power source only. Verify battery voltage before connection.
- Do not reverse polarity during battery connection. Incorrect polarity will damage the inverter.
- Keep the inverter away from flammable materials and gases.
- Disconnect all power sources before performing any maintenance or cleaning.
- This device contains no user-serviceable parts. Refer servicing to qualified personnel.

2. PRODUCT OVERVIEW

Key Features

- **Pure Sine Wave Output:** Converts 24V DC to stable 220V/230V AC, suitable for sensitive electronics.
- **High Power Capacity:** Provides 3000 Watts of continuous power and 6000 Watts of peak surge capacity.
- **Versatile Output Ports:** Features two standard AC outlets and one 2.1A USB port for charging devices.
- **Wired Remote Control:** Includes a 5-meter wired remote control for convenient power management from a distance.
- **Comprehensive LCD Display:** Real-time monitoring of input voltage, output voltage, battery level, load status, frequency, operating temperature, and error codes.

- **Multi-Protection System:** Integrated safeguards against overload, over-voltage, under-voltage, over-temperature, and short-circuit conditions.
- **Intelligent Cooling:** Equipped with an intelligent and silent cooling fan system that activates based on internal temperature or power load.
- **Durable Construction:** Housed in a robust aluminum alloy casing for enhanced protection.

Package Contents

- 1x NOVOPAL DLCD3000PEU24 3000W Pure Sine Wave Power Inverter
- 1x Wired Remote Control (5 meters)
- 1x Set of Battery Connection Cables (Red for positive, Black for negative)
- 1x Ground Cable (GND)
- 1x User Manual (English and French)
- Additional Fuses (Note: Fuses are integrated within the unit; no external installation required)



Image 2.1: NOVOPAL DLCD3000PEU24 Pure Sine Wave Inverter, showing the main unit, remote control, and included battery cables.



Image 2.2: Detailed view of the package contents, including the inverter, remote, cables, and user manual.

3. SETUP AND INSTALLATION

Connecting the Inverter

- Placement:** Choose a dry, well-ventilated area for the inverter. Ensure there is sufficient space (at least 15 cm) around the unit for proper airflow and cooling. Avoid direct sunlight or heat sources.
- Battery Connection:** Connect the red battery cable to the positive (+) terminal of your 24V DC battery and to the positive (+) terminal on the inverter. Connect the black battery cable to the negative (-) terminal of your battery and to the negative (-) terminal on the inverter. Ensure all connections are tight and secure to prevent arcing and power loss.
- Grounding:** Connect the ground cable (GND) from the inverter's grounding screw to a proper earth ground point. This is crucial for safety.
- Remote Control Connection:** Plug the 5-meter remote control cable into the designated RJ45 port on the inverter.
- Initial Power On:** After all connections are secure, switch on the inverter using the main power switch. The LCD display should illuminate, indicating the inverter is operational.

Important Safety Notes:

- Incorrect polarity connection will damage the inverter and void the warranty. Double-check all connections before powering on.
- Ensure the battery capacity is sufficient for the inverter's power rating. For the 3000W model, a recommended battery capacity is 180AH (24V) to support sustained operation.



Image 3.1: Rear view of the inverter, highlighting the DC input terminals and cooling fans. Note the warning against reverse polarity.



Image 3.2: Battery compatibility and recommended capacities for NOVOPAL inverters. The 3000W 24V model recommends a 180AH battery.

4. OPERATING INSTRUCTIONS

Using the Inverter

- Power On:** Ensure the inverter is correctly connected to the battery. Press the main power switch on the inverter or use the remote control to turn it on.
- Connecting Appliances:** Plug your AC appliances into the inverter's AC outlets. For USB charging, use the 2.1A USB port. Ensure the total power consumption of connected devices does not exceed 3000W.
- Monitoring:** Observe the LCD display for real-time operational data such as input voltage, output voltage, load percentage, and temperature. This helps in managing power usage and identifying potential issues.
- Power Off:** When finished, switch off the inverter using the main power switch or the remote control. Disconnect appliances before prolonged storage or when the inverter is not in use.

Remote Control Operation

The wired remote control allows for convenient operation and monitoring from a distance of up to 5 meters.

- Long Press:** Press and hold the ON/OFF button on the remote control for approximately 3 seconds to power the inverter ON or OFF.
- Short Press:** A short press of the ON/OFF button will toggle the LCD screen ON or OFF, saving power when continuous monitoring is not required.

SMART LCD DISPLAY



Image 4.1: Smart LCD display on the inverter, showing battery level, DC input voltage, AC output voltage, frequency, working indicator, load level, error code, and operating temperature.

Visual HD LCD Remote Control

You can get all the data and warning alerts from this remote control

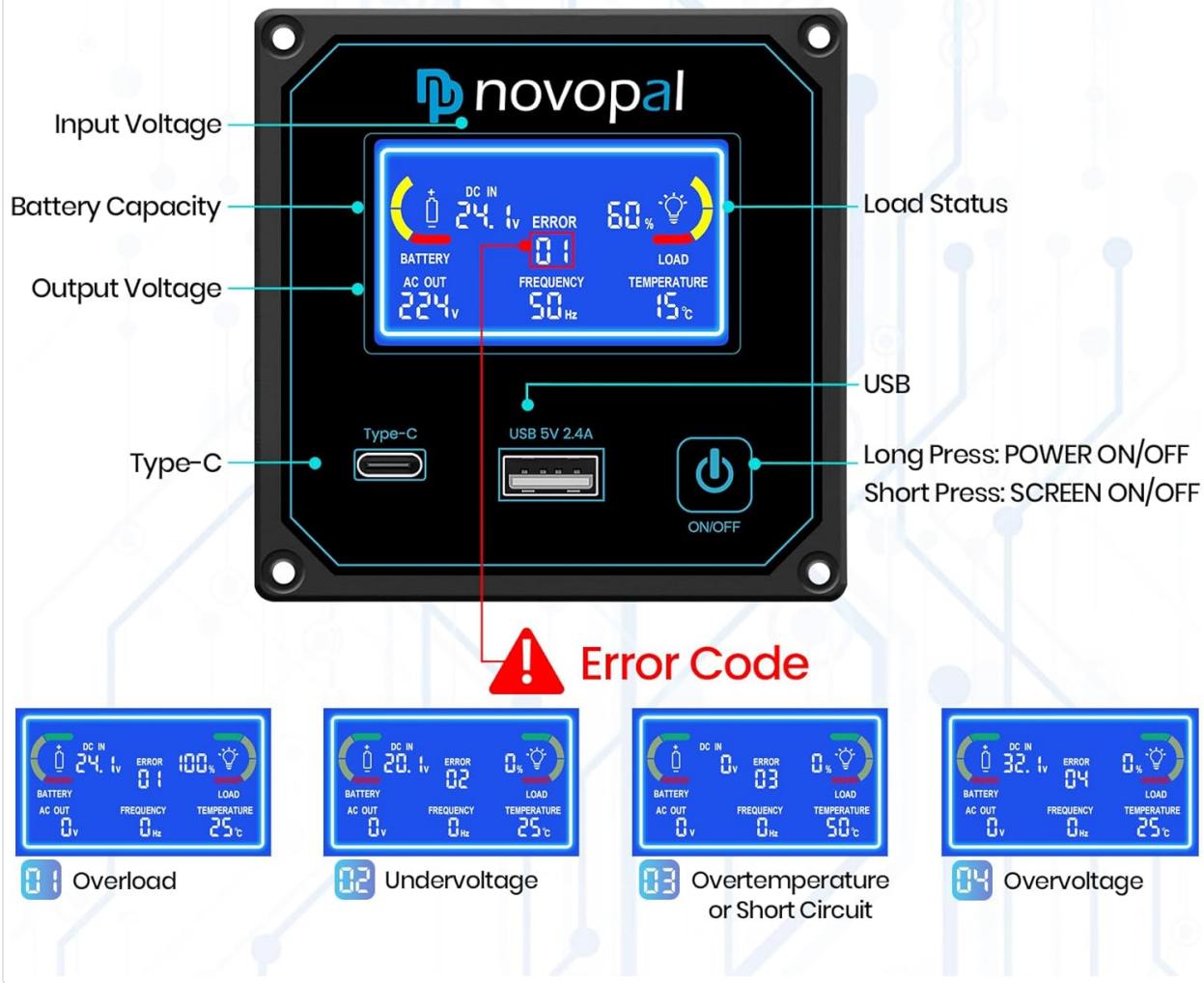


Image 4.2: Visual HD LCD Remote Control, displaying input voltage, battery capacity, output voltage, load status, USB, and Type-C ports. It also illustrates error codes for overload, undervoltage, overtemperature/short circuit, and overvoltage.

5. MAINTENANCE

- Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Ensure ventilation openings and cooling fans are free from dust, dirt, and debris to maintain optimal airflow.
- Connection Check:** Regularly inspect battery cable connections and the grounding connection to ensure they remain tight, secure, and free from corrosion. Loose connections can lead to power loss or overheating.
- Ventilation:** Ensure the cooling fans are not obstructed. The intelligent cooling fan system activates automatically when the internal temperature exceeds 45°C or the inverter power load exceeds 40%. Proper ventilation is critical for preventing overheating.
- Storage:** If storing the inverter for an extended period, disconnect it completely from the battery and store it in a cool, dry, and well-ventilated place, away from direct sunlight and extreme temperatures.

Intelligent & Silent Cooling Fan

Internal temperature >45°C or inverter power >40%, fan starts to work

Internal temperature <45°C or inverter power < 30%, fan stops working



Image 5.1: Illustration of the intelligent cooling fan system, showing fan activation conditions based on temperature and power load.

6. TROUBLESHOOTING

The LCD display and remote control provide error codes to assist in identifying and resolving common issues. Refer to the table below for guidance.

Table 6.1: Error Codes and Solutions

Code	Description	Possible Cause	Solution
01	Overload	Connected appliances exceed the inverter's continuous power rating (3000W) or surge capacity (6000W).	Reduce the total load by disconnecting some appliances. Restart the inverter.
02	Under-Voltage	Battery voltage is too low (below 21V for a 24V system).	Recharge the battery. Check battery connections for looseness or corrosion.

Code	Description	Possible Cause	Solution
03	Over-Temperature or Short-Circuit	Inverter is overheating due to poor ventilation or excessive load, or a short circuit is detected in the AC output.	Ensure adequate ventilation. Reduce load. Check AC output for short circuits. Allow inverter to cool down before restarting.
04	Over-Voltage	Battery voltage is too high (above 30V for a 24V system).	Check the charging system for the battery. Ensure correct battery type and charging voltage.



Image 6.1: The remote control displaying various error codes and their corresponding conditions, such as overload, undervoltage, overtemperature/short circuit, and overvoltage.

7. SPECIFICATIONS

Feature	Detail
Model Number	DLCD3000PEU24
Brand	NOVOPAL
Input Voltage	24 Volts DC
Output Voltage	220V / 230V AC
Continuous Power	3000 Watts
Peak Power	6000 Watts
Output Waveform	Pure Sine Wave (THD < 5%)
USB Output	5V 2.1A
Recommended Battery Capacity	180 Amp-hours (for 24V system)
Dimensions (L x W x H)	42 cm x 16.5 cm x 10 cm
Power Source	Battery Powered, Solar Powered (with compatible solar charge controller)
Manufacturer	NOVOPAL
Country of Origin	China

MULTIPURPOSE

Household Appliances, Power Tools, Emergency Equipments,
TV, etc up to 3000 watt



Image 7.1: Dimensions of the NOVOPAL DLCD3000PEU24 inverter and its components, including the remote control and cables.

8. WARRANTY AND SUPPORT

The NOVOPAL DLCD3000PEU24 inverter comes with a **1-year warranty** against manufacturer defects from the date of purchase.

Warranty Coverage: This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, misuse, abuse, accidents, unauthorized repairs, or natural disasters.

Technical Support: For technical assistance, troubleshooting guidance, or to initiate a warranty claim, please contact NOVOPAL customer service. Refer to the contact information provided in the original product packaging or on the official NOVOPAL website. Please have your purchase receipt and product model number ready when contacting support.

Spare Parts: Information regarding the availability of spare parts is not explicitly provided. Software updates are not applicable for this device.

9. APPLICATIONS

The NOVOPAL DLCD3000PEU24 Pure Sine Wave Inverter is designed for a wide range of applications, providing reliable AC power from a 24V DC source for various needs.

- **Vehicles:** Ideal for cars, trucks, recreational vehicles (RVs), and boats to power various electronics and small appliances while on the move.
- **Outdoor Activities:** Perfect for camping, picnics, tailgating, and other outdoor events where access to grid power is unavailable.
- **Home/Office Backup:** Can serve as a reliable backup power source for essential devices during power outages or in off-grid setups.
- **Sensitive Electronics:** The pure sine wave output ensures safe operation and extends the lifespan of sensitive equipment such as laptops, cameras, medical devices, and audio equipment.
- **High-Power Appliances:** Capable of running power tools, microwave ovens, coffee machines, small refrigerators, and other high-wattage devices within its specified power limits.



Image 9.1: Examples of diverse applications for the NOVOPAL DLCD3000PEU24 inverter, including use in vehicles, for camping, and during adverse weather conditions.

Convient à Plusieurs Types de Batteries

CONSEILS SUR LES BATTERIES		
Entrées	Alimentation	Capacité de Batterie Recommandée
24V	1000W	60AH
	1500W	100AH
	2000W	120AH
	3000W	180AH
	4000W	230AH



Image 9.2: Illustration of the inverter powering common RV and household appliances, such as a TV, coffee maker, microwave, refrigerator, and air conditioner.

Related Documents - DLCD3000PEU24

<p>NOVOPAL Troubleshooting Guide</p> <p>Introduction Through our customer's feedback, we have compiled a trouble guide for our power inverters. This guide is designed to help you troubleshoot common problems that may occur when using the inverter. You can also refer to it to solve the problems when you encounter it in use. Thank you for using the NOVOPAL Power Inverter.</p> <p></p>	<p>NOVOPAL Power Inverter Troubleshooting Guide</p> <p>A comprehensive troubleshooting guide for NOVOPAL Power Inverters, covering common issues like overload, undervoltage, over-voltage, over-temperature, short circuits, and reverse polarity, with solutions and battery recommendations.</p>
<p>Novopal Pure Sine Wave Technology Troubleshooting Guide</p> <p>Introduction Through our customer's feedback, we have compiled a trouble guide for our power inverters. This guide is designed to help you troubleshoot common problems that may occur when using the inverter. You can also refer to it to solve the problems when you encounter it in use. Thank you for using the Novopal Pure Sine Wave Power Inverter.</p> <p></p>	<p>Novopal Power Inverter Troubleshooting Guide Overload, Undervoltage, Over-voltage, Over-temperature, Short Circuit</p> <p>Comprehensive troubleshooting guide for Novopal Pure Sine Wave Power Inverters. Learn how to diagnose and resolve common issues like overload, undervoltage, over-voltage, over-temperature, short circuit, and reverse connection.</p>
<p>NOVOPAL Troubleshooting Guide</p> <p>Introduction Through our customer's feedback, we have compiled a trouble guide for our power inverters. This guide is designed to help you troubleshoot common problems that may occur when using the inverter. You can also refer to it to solve the problems when you encounter it in use. Thank you for using the NOVOPAL Power Inverter.</p> <p></p>	<p>Novopal Power Inverter Troubleshooting Guide</p> <p>A comprehensive troubleshooting guide for Novopal Power Inverters, covering common issues like overload, undervoltage, over-voltage, over-temperature, short circuits, reverse connections, and no DC input voltage. Includes solutions and a battery capacity reference table.</p>

<p>MERCi DE MAGASINER AVEC NOUS Nous espérons que vous appréciez votre nouvel achat à Novopal!</p> <p>Quelques conseils pour assurer la meilleure qualité et la durée de vie de nos produits. Nous espérons que vous saurez faire une réflexion et communiquer avec nous pour nous faire part de vos commentaires et suggestions. Nous nous efforcerons d'améliorer et d'améliorer nos produits et services pour vous aider à obtenir le meilleur résultat possible.</p> <p>SI POUR UNE RAISON QUELCONQUE VOUS N'ETEZ PAS SATISFAIS DE VOTRE ACHAT, Veuillez nous le faire savoir. QU'IL Y AIT DES QUESTIONS, INQUIETEZ-VOUS ET CONTACTEZ-NOUS. NOUS VOUS RÉPONDREONS A VOTRE DEMANDE. NOUS VOUS DONNONS TOUT CE QU'IL FAUT EN NOTRE POUVOIR POUR VOUS DÉPARTEZ.</p> <p>Informations Contact Courriel/Souscription : support@novopal.com</p> <p>Bienvenue Veuillez lire attentivement ce manuel avant d'installer et d'utiliser votre nouvel appareil. Ce manuel contient toutes les informations dont vous avez besoin pour tirer les meilleures performances possibles de votre produit. Conservez ce manuel pour toute référence future.</p> <p>Cet inducteur Novopal convertit le courant continu basse tension en courant alternatif à haute tension. Il peut convertir le courant continu à une tension de 12/24/48 volts telles que celles utilisées pour la marine, les camping-cars, les maisons éloignées ou pour d'autres nécessités. Il convertit de 12/24/48 volts.</p>	<h2>Novopal Inverter User Manual and Specifications</h2> <p>This document provides a comprehensive user manual and technical specifications for Novopal inverters. It covers installation, operation, safety precautions, troubleshooting, and battery selection guidelines for various Novopal inverter models.</p>
 NOVOPAL Troubleshooting Guide Introduction <p>Through our customer's feedback, we have compiled a trouble shooting guide to help you identify and resolve common issues when installing and using your inverter. This guide is intended to help you avoid some problems caused by the wrong method. You can also avoid the problems when you purchase the inverter. We hope this guide will be helpful to you.</p> 	<h2>NOVOPAL Power Inverter Troubleshooting Guide</h2> <p>A comprehensive troubleshooting guide for NOVOPAL Power Inverters, covering common issues like overload, undervoltage, over-voltage, over-temperature, short circuits, and reverse polarity, with solutions and battery recommendations.</p>
 NOVOPAL Troubleshooting Guide Introduction <p>Having a power inverter makes your life easier. It can help you power the devices you use, which can be very useful in a variety of situations. However, there are some common problems that can occur when using an inverter. This guide is intended to help you identify and resolve these problems. You can also refer to it for the problems when you encounter it in use.</p> 	<h2>Novopal Power Inverter Troubleshooting Guide Overload, Undervoltage, Over-voltage, Over-temperature, Short Circuit</h2> <p>Comprehensive troubleshooting guide for Novopal Pure Sine Wave Power Inverters. Learn how to diagnose and resolve common issues like overload, undervoltage, over-voltage, over-temperature, short circuit, and reverse connection.</p>