Krieger 1500 watt inverter manual

I'm not robot!

by Kiran Daware Miscellaneous machines Share: Facebook Twitter Linkedin If you're living in a remote place where you have only Direct current for power, a power inverter is a necessity. The same applies if you're going camping on an RV or have only the SUV for power. Power inverters or digital inverters are extraordinarily efficient when it comes to using batteries as a bigger power source. They will help you turn the DC from your car battery into AC and let you charge your devices, run a laptop or so. However, if you end up getting a faulty power inverter, and have no other option but to repair it yourself, this article is for you. I'll talk about everything you should know about power inverters, what they are, and how they work. Once you know how your inverter works, you'll get through the processes you should follow to repair it as well. Stay with the process and get your inverter repaired all by yourself. What is a power inverter? A power inverter is a power converter device that can convert the DC from a battery into the AC. It is an oscillator that can switch the polarity settings rapidly from DC into AC and make a square wave. With a power inverter, you can use the devices that require AC instead of drawing DC power. You can get both a 220 Volts or 240 Volts current output with an inverter which helps you run any type of device. There are three most popular types for inverters, the pure sine wave inverters, square wave, and the modified sine wave inverters. You'll also find inverters with phase types, single-phase, and three-phase inverters for different types of jobs. Why my inverter isn't working? Knowing all the reasons why your inverter could go wrong will help you decide the proper troubleshooting techniques. Here are the most common reasons why your inverter might have stopped working or don't function well: Faulty battery connection: The battery you're connecting to the inverter might have a loose connection or no connection at all. Corroded battery terminal: If you're using the inverter for quite a while, the battery terminals may have corroded due to humidity or hydrogen release. A faulty power switch: If your inverter isn't powering up at all, the fault might be with the power switch on the inverter. Discharged battery: Maybe the problem isn't with the inverter at all; instead, your battery may have not enough charge in the first place. A blown-fuse: If you're using it with a permanent terminal and the oscillator goes out of order all of a sudden, the fault might be a blown fuse! How to fix a power inverter If you end up getting a faulty inverter that you might be thinking of being dead, it may not be completely out of order after all! If the problem is repairable at home, you can do it yourself by checking the inverter. Here are the things you can do if you have ended up with a faulty power inverter lately: 1. Troubleshoot a faulty power switch When a power inverter isn't turning on after pushing the power switch, the problem might be with the switch! At first, you have to check if it's okay or not, and the process is simple to do. Unplug the power inverter from its power source, plug in another appliance to it, and turn it on. If it doesn't turn on, you have to get a replacement for the power switch. Call a professional electrician and get a replacement unit for the switch to change it. If you're okay with doing it yourself, you can replace it yourself as well. 2. Check the battery connections If you're using the setup for a long time, and the inverter isn't working or turning on, the fault might be with the battery. Most of the time, the problem is a loose connection to the battery, which requires you to clean and tighten it up. If the problem isn't with the connector, the battery might have rusted or corroded. Inspect the battery and check for corrosion, if there are any, disconnect and take the battery out and clean it. To clean it, take some baking soda, mixed with hot water, take a stiff toothbrush and scrub the terminal with it after dipping in the mixture. Once the corrosion is removed, clean the connectors and dry them with a paper towel. Reconnect them and try turning the inverter again. 3. A discharged or faulty battery The fault may not be with the inverter at all in the first place when your power inverter isn't working. The problem might also be with the battery, especially if you're running it for a long time. The battery might have been weakened and discharged quickly, or it might have a fault inside. If your battery is weak, you might have to get it replaced or repaired if possible. If the battery is lead-acid based and running out of acid, you have to get it acid replacement, and that'll be enough. 4. Diagnose the inverter If the problem isn't in the power switch or the battery, it might be in the inverter itself, and you have to run a diagnosis to resolve that. The best way to do that after getting to know how the system works, get a diagram of the inverter. Once you have the diagram, it's time to check the contact points one by one after opening the housing up. If you find the contact points seem good, move on to the rest of the components. You have to test the voltmeter, followed by the other components. Take extra safety precautions to be sure that you're out of danger, disconnect it from everything first. 5. Order and replace parts If you have found out the faulty parts, it's time to order their replacements and install them. Get the replacement parts from the same manufacturer if possible, to ensure better quality. Once you have the components, remove the older parts from the inverter, and carefully install the new one. In the removing process, remember how you removed it and which way the part goes. It will help you get the new part in its place correctly. 6. Test the inverter Once you have the new parts installed to the old faulty parts and shouldered on the places if necessary, now is the testing time. Connect the inverter to your battery and plug it in a controlled and limited power like a low voltage lamp. Now, use a voltmeter to get the reading of the inverter output and see if it works fine. If everything is okay, the machine should work perfectly, and the lamp should light up as well. FAQ Here are the most common questions about power inverters people ask about, and you may have interest in: How do you reset an inverter? Press and hold on the ON/OFF button for 15 seconds and wait for the charging LED flashes rapidly. How many watts does an inverter use? A regular inverter battery will charge at 10 ampere and 12 Volts, which sums up on 120KW. Will a 2000 watt inverter run a refrigerator? Yes, a 2000W inverter can power up a 500W deep freezer, including some extra lights as well. Final Words A power inverter is indeed a great tool to have as it can help you run devices with DC even if they run with AC. It will keep you on if you don't have a connection to the power grid while after a power outage or while camping. However, if it goes out of order, you can fix it yourself if the problem goes with the ones I've mentioned above. Remember not to keep it connected with the AC adapter when you're working inside the inverter. Disconnect it before starting working with it, or there could be a problem as it works with electricity. Author: Johnathan Roos is owner of yorator.com where he writes about all the latest power backup tools machinery like different types and powered Generators, inverter and it’s related accessories and use and maintenance information. Welcome Please read this manual thoroughly before installing and operating your new Kriëger® Power Inverter. This manual contains information you need to obtain the performance required for your application. Keep this manual for future reference. This Kriëger® Inverter converts low voltage, direct current (DC) to 110 volt modified sine wave (MSW) alternating current (AC).WARNINGS: INVERTER OUTPUT This is a heavy-duty device that produces voltages similar to commercial AC power. Danger of shock or electrocution - treat inverter output the same as commercial AC power. Do not use the inverter near flammable materials or in any locations that may accumulate flammable fumes or gases. This is an electrical device that can briefly spark when electrical connections are made or broken. Do not allow water or other liquids come into contact with inverter. into AC receptacles to supply a low-voltage DC or AC output to the appliance. If the appliance label states that the charger or adapter produces a low-voltage DC or AC output (30 volts or less), there will be no problem powering that charger or adapter. Some fans with synchronous motors may slightly increase in speed (RPM) when powered by the inverter. This is not harmful to the fan or to the inverter.Multiply: AC AMPS X 110 (AC voltage) = WATTS This formula yields a close approximation of the continuous load of your appliance. Multiply: WATTS X 2 = Starting Load for most appliances This formula yields a close approximation of the starting load of most appliances. Exceptions are motorized appliances such as pumps, freezers and air conditioners. These appliances can have startup loads of up to eight times the rated watts.Front Panel KR1100 / KR1500 / KR2000 A. LCD Digital Display (See LCD Diagram on Next page). B. POWER Button: Pressing the button turns the inverter circuits ON and OFF. C. MENU Button: Pressing the button will change the display between OUTPUT WATTAGE or INPUT VOLTAGE. D. Two standard North American AC outlets, each rated at 15 Amps (1650 Watts). E. Two USB Ports (2.1 Amp shared): Allows the user to power one or two single 2.1A-compatible tablet devices or two 1A USB-charging devices, such as cell phones.Rear Panel KR1100 / KR1500 / KR2000 F. High-Speed Cooling Fan. When the temperature inside the inverter exceeds a preset limit, the Cooling Fan automatically turns on to cool the inverter. When the temperature reduces, the fan turns off. G. Negative Power Input Terminal. H. Positive Power Input Terminal. I. Remote Control Receptacle. J. Ground Terminal. K. Main Switch is used for complete shutdown of the inverter.Sizing the Battery Bank To determine the minimum battery bank ampere-hour rating that you will need to operate appliances from the inverter, and any DC appliances powered by the battery bank, follow these steps: 1. List the maximum wattage that the inverter has to provide (as above). 2. Estimate the number of hours the appliances will be in use between battery recharges. This will differ depending on appliances.Note: The type of batteries you use to power your high power inverter is important. Operating a high-power inverter will routinely discharge batteries and they will require frequent recharging. Batteries used to start engines are not designed to repeatedly charge and discharge. Kriëger® recommends using “deep-cycle” or “marine” rated batteries. Cable Gauges When connecting the inverter to a battery bank use the thickest stranded insulated copper wire available, in the shortest length practical.CAUTIONS: • • • • • Loose connections can result in a severe decrease in voltage that can cause damage to cables and insulation. Failure to make correct polarity (Pos, Neg) connection between the inverter and the battery bank can result in blowing fuses in the inverter and can permanently damage the inverter. Damage caused by reversed polarity is not covered under the Kriëger® warranty.Connecting the Inverter This inverter has two DC cable connections, one positive and one negative. The order of steps in the following procedure minimizes the danger of sparking near the battery bank. 1. Prepare all cable set ends with ring terminals at the battery ends. 2. Install one fuse holder with fuse in the Pos cable close to the battery bank end. 3. Make sure the inverter is OFF. 4. Ensure all appliance cords or extension cords are disconnected from the inverter. 5.Television and Audio Suggestions Although all Kriëger® inverters are shielded and filtered to minimize signal interference, some interference with your television picture may be unavoidable, especially in weak signal areas. However, here are some suggestions that may improve reception: 1. First, make sure that the television antenna produces a clear signal under normal operating conditions. Also, ensure that the antenna cable is properly shielded and of good quality. 2.How This Modified Sine Wave Power Inverter Works There are two stages in which this power inverter changes the 12 volt DC (or battery) power into 110v AC (household current). STAGE 1: This inverter uses a DC to DC converter to increase the DC input voltage from the battery to 145 volts DC. STAGE 2: The inverter then converts the high voltage DC into 110v AC (household current), using advanced MOSFET transistor in a full bridge configuration.Troubleshooting PROBLEM: Output voltage below 100V AC Reason A “True RMS” voltage meter is required to properly measure output voltage of a modified wave inverter. Solution Test output voltage with a “True RMS” and the correct voltage will be displayed. PROBLEM: No Input Voltage Reason Solution Poor contact with battery terminals. Shut down inverter and disconnect. Clean terminals thoroughly and reconnect. Blown DC battery fuse(s). Turn off inverter. Fix problem.Specifications: KR1100 Specifications Output Continuous Watts (W) Surge Capacity (Peak Power) Rated Input DC (V,A) Input Voltage Range Rated Frequency (Hz) Rated Output AC (V,A) Rates Output USB (V,A) No Load Current Optimum Efficiency Fuse (A) Fuse Type Output Wave Form Max. Touch Temperature Operating Temperature Operating/Storage Humidity RH Cooling System THD Dimensions LxWxH (inches) Assembled Weight (LBS) Description 1100W +10W‹USB› 2200W 12VDC, 118A 10.5 to 15.5 VDC +/- 0.Specifications: KR1500 Specifications Output Continuous Watts (W) Surge Capacity (Peak Power) Rated Input DC (V,A) Input Voltage Range Rated Frequency (Hz) Rated Output AC (V,A) Rates Output USB (V,A) No Load Current Optimum Efficiency Fuse (A) Fuse Type Output Wave Form Max. Touch Temperature Operating Temperature Operating/Storage Humidity RH Cooling System THD Dimensions LxWxH (inches) Assembled Weight (LBS) Description 1500W +10W‹USB› 3000W 12VDC, 161A 10.5 to 15.5 VDC +/- 0.Specifications: KR2000 Specifications Output Continuous Watts (W) Surge Capacity (Peak Power) Rated Input DC (V,A) Input Voltage Range Rated Frequency (Hz) Rated Output AC (V,A) Rates Output USB (V,A) No Load Current Optimum Efficiency Fuse (A) Fuse Type Output Wave Form Max. Touch Temperature Operating Temperature Operating/Storage Humidity RH Cooling System THD Dimensions LxWxH (inches) Assembled Weight (LBS) Description 2000W +10W‹USB› 4000W 12VDC, 215A 10.5 to 15.5 VDC +/- 0.Warranty and Return Warranty by PowerBright What does this warranty cover? This Limited Warranty is provided by PowerBright and covers defects in workmanship and materials in your KR1100 / KR1500 / KR2000. This warranty period lasts for 36 months from the date of purchase at the point of sale to you, the original end user customer. Proof of purchase is required to make warranty claims.Direct returns may be performed according to the PowerBright Return Material Authorization Policy described in your product manual. For some products, PowerBright maintains a network of regional Authorized Service Centers. Call PowerBright or check our website to see if your product can be repaired at one of these facilities.WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, POWERBRIGHT MAKES NO REPRESENTATIONS OR WARRANTIES REGARDING THE USE OF THE KRIËGER KR1100 / KR1500 / KR2000 IN CONNECTION WITH LIFE SUPPORT SYSTEMS OR OTHER MEDICAL EQUIPMENT OR DEVICES. Return Material Authorization Policy Before returning a product directly to PowerBright you must obtain a Return Material Authorization (RMA) number and the correct factory "Ship To" address. Products must also be shipped prepaid.Page 2WARNINGS: INVERTER OUTPUT This is a heavy-duty device that produces voltages similar to commercial AC power. Danger of shock or electrocution - treat inverter output the same as commercial AC power. Do not use the inverter near flammable materials or in any locations that may accumulate flammable fumes or gases. This is an electrical device that can briefly spark when electrical connections are made or broken. Do not allow water or other liquids come into contact with inverter. Do not use appliances with damaged or wet cords. CAUTIONS: INVERTER OPERATING ENVIRONMENT Surrounding air temperature should be between 4°F and 104°F (-20°C and 40°C) – ideally between 60°F and 80°F (15°C and 25°C). Keep the inverter away from direct sunlight if at all possible. Keep the area surrounding the inverter clear to ensure free air circulation around the unit. Do not place items on or over the inverter during operation. The unit will shut down if the internal temperature gets too hot. Restart the inverter after it cools. This Kriëger® inverter will only operate from a 12V power source. Do not attempt to connect the inverter to any other power source, including any AC power source. Do not reverse DC input polarity – this will void the warranty. APPLIANCE CAUTIONS Do NOT plug in battery chargers for cordless power tools if the charger carries a warning that dangerous voltages are present at the battery terminals. Certain chargers for small nickel-cadmium or nickel-metal-hydride batteries can be damaged if powered by this inverter. Two types of appliances are susceptible to damage: o Small, battery-operated appliances such as flashlights. o Cordless razors and toothbrushes that plug directly into an AC receptacle. Do NOT use this inverter with the above two types of equipment. The majority of portable appliances do not have this problem. Most portable appliances use separate transformers or chargers that plug Page 3Welcome Please read this manual thoroughly before installing and operating your new Kriëger® Power Inverter. This manual contains information you need to obtain the performance required for your application. Keep this manual for future reference. This Kriëger® Inverter converts low voltage, direct current (DC) to 110 volt modified sine wave (MSW) alternating current (AC). The inverter draws power from 12 volt, deep-cycle batteries such as those used for marine, golf cart, and fork-lift or from other high current 12 volt sources. This model, KR1100 / KR1500 / KR2000, has been performance tested by MET and complies with Underwriter’s Laboratories and Canadian Standards Association safety standards. A Higher Wattage Inverter May Be Required To determine whether the Kriëger® KR1100 / KR1500 / KR2000 will operate a particular appliance or a combination of appliances, run a test. All inverters are designed to automatically shut down in the event of a power overload. This protection feature prevents damage to the unit while running appliances with combined wattages below the 1500 / 2000 watt range. Turn on the highest wattage appliance first then other appliances. If an appliance combination in the 1500 / 2000 watt range will not operate properly, then it is likely that this Kriëger® inverter does not have the required capacity to operate the appliance in question. WARNINGS, CAUTIONS AND NOTES It is very important that any operator and installer of this inverter read and follow all WARNINGS, CAUTIONS AND NOTES and all installation and operation instructions. In particular, comply with WARNINGS (possibility of serious injury or death), CAUTIONS (possibility of damage to the inverter and / or other equipment), and NOTES (included to assist you in achieving the maximum performance and longest working life from this advanced-design inverter). Page 4WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, POWERBRIGHT MAKES NO REPRESENTATIONS OR WARRANTIES REGARDING THE USE OF THE KRIËGER KR1100 / KR1500 / KR2000 IN CONNECTION WITH LIFE SUPPORT SYSTEMS OR OTHER MEDICAL EQUIPMENT OR DEVICES. Return Material Authorization Policy Before returning a product directly to PowerBright you must obtain a Return Material Authorization (RMA) number and the correct factory "Ship To" address. Products must also be shipped prepaid. Product shipments will be refused and returned at your expense if they are unauthorized, returned without an RMA number clearly marked on the outside of the shipping box, if they are shipped collect, or if they are shipped to the wrong location. When you contact PowerBright to obtain service, please have your instruction manual ready for reference and be prepared to supply: • The serial number of your product • Information about the installation and use of the unit • Information about the failure and / or reason for the return • A copy of your dated proof of purchase. Return Procedure 1. Package the unit safely, preferably using the original box and packing materials. Please ensure that your product is shipped fully insured in the original packaging or equivalent. This warranty will not apply where the product is damaged due to improper packaging. 2. Include the following: • The RMA number supplied by PowerBright Technology, Inc. clearly marked on the outside of the box. • A return address where the unit can be shipped. Post Office Boxes are not acceptable. • A contact telephone number where you can be reached during work hours. • A brief description of the problem. 3. Ship the unit prepaid to the address provided by your PowerBright customer service representative. If you are returning a product from outside of the USA or Canada In addition to the above, you MUST include return freight funds and are fully responsible for all documents, duties, tariffs, and deposits.

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