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Book Descriptions:

Dr1524E Manual

It does not provide details about particular brands of batteries. You need to consult
individWARNING Warnings identify conditions or practices that could result in personal injury or
loss of life CAUTION Cautions identify conditions or practices that could result in damage to the unit
or other equipment. Important These notes describe things which are important for you to know, but
not as serious as a caution or warning. Abbreviations and Acronyms AC Alternating Current ASC
Authorized Service Center It could spark or short circuit the battery or other electrical parts and
cWhen utility power fails, the battery backup system keeps your appliances powered until utility
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Information About Your System. Page 119 Index. Please check your inbox, and if you can’t find it, check your spam folder to make sure it didnt end up there. Please also check your spam folder. Xantrex is a registered trademark of Xantrex International. All rights reserved. It does not provide details about particular brands of batteries. You need to consult individual battery manufacturers for this information. Installers should be certified technicians or electricians. For detailed information, see your battery manufacturer or your system designer.” Be sure to read all instructions and cautionary markings for any equipment attached to this unit. Overheating may result. Doing otherwise may result in a risk of fire, electric shock, or injury to persons. It contains no userserviceable parts. See Warranty for instructions on obtaining service. Internal capacitors remain charged after all power is disconnected. Power may be present at more than one source. Turning off controls will not reduce this risk. This is the single point earth ground for the inverter system. This could pose a fire hazard due to an overloaded neutral return wire in this configuration.Batteries generate explosive gases during normal operation.This includes any space containing gasolinepowered machinery, fuel tanks, as well as joints, fittings, or other connections between components of the fuel system. It could spark or short circuit the battery or other electrical parts and could cause an explosion. Leadacid batteries produce a short circuit current high enough to weld metal to skin, causing a severe burn. Avoid touching your eyes while working near batteries. If acid enters your eye, immediately flood it with running cold water for at least twenty minutes and get medical attention immediately. Make sure all accessories are off so you don’t cause a spark. Check each battery’s date code or label to ensure age and type.

<https://labroclub.ru/blog/dm780-manual>

For optimum performance, the should be installed in a stable temperature environment. Contact your local recycling center for proper disposal information. When utility power When utility or When utility grid power returns, the batteries are The builtin, fully automatic AC All inverter and battery charger controls are Figure 11 shows the features of the front side of the DR Inverter and identifies

the AC side from the DC side. This unit is also compatible with the RC4 the predecessor to the RC8; although the RC4 is no longer available for purchase from Xantrex. Have additional help available if necessary, to assist in lifting the unit during installation. Please call Xantrex Customer Service at 800 6700707 if any items are missing. This is required if the unit should require warranty service. If the inverter ever needs to be returned for service, it should be shipped in the original carton. This is also a good way to protect the inverter if it ever needs to be moved. Xantrex Technology Inc. The Serial Number can be located on the mounting rail or inside the top cover. Model Number labels may be located on the bottom side of the front cover or possibly inside the front cover. All the necessary information is provided on the label such as AC output voltage, power and frequency punch holes. The model number describes the type of inverter, the output specifications, the required battery voltage and the output voltage and frequency Do NOT use this unit for applications for which it is not listed i.e., land vehicles or marine craft. It may not comply with the safety code requirements or could possibly present other operational or safety hazards. Be sure to read all instructions and cautionary markings for any equipment attached to this unit. Location, mounting, and ventilation should be taking into consideration before any cabling can be done. Exposure to saltwater is particularly destructive and potentially hazardous.

However, do not locate the inverter above the batteries or in the same compartment as vented batteries. Batteries generate hydrogen sulfide gas which is corrosive to electronic equipment. They also generate hydrogen and oxygen. If accumulated, an arc caused by connecting the battery cables or switching a relay could ignite this mixture. Mounting the inverter in a ventilated enclosure with sealed batteries is acceptable. Locate any sensitive electronic equipment susceptible to RFI as far away from the inverter as possible. This includes radios and TVs. The keyhole slots must not be used as the only method of mounting. The purpose of the wall mounting requirement is to orient the inverter so that its bottom cover, which has no holes, will not allow burning material to be ejected in the event of an internal fire. Use 0.25inch diameter bolts for mounting. The mounting surface must be capable of supporting twice the weight of the inverter to comply with UL 1741. The inverter's thermal shutdown point will be reached sooner than normal in a poorly ventilated environment, resulting in reduced peak power output and surge capability, as well as shorter inverter life. Ensure the air vents and intakes are not obstructed in any way. Provide a minimum clearance of 6 inches around the top and sides of the inverter for ventilation. Neutral and ground conductors should only be bonded at the main electrical service panel. The size for the conductor is usually based on the size of the largest conductor in the DC system. Possible routing scenarios include This can be done several different ways, depending upon the installation. Always refer to electrical codes for safe wiring practices. This breaker protects the DC wiring in the event of an accidental short. Size the breaker in accordance with the battery cables. Switch this breaker OFF whenever servicing the batteries. The battery voltage MUST match the voltage requirements of the inverter.

To determine the correct voltage for the system, check the last two digits on the inverter's model number. For example, the DR15 12 is a 12volt inverter and requires a 12 Vdc battery system. The DR24 24 is a 24volt inverter and requires a 24 Vdc battery system. Two feet clearance above the batteries is recommended for access to the battery caps. They should be located as close to the inverter as possible without limiting access to the inverter's disconnects. Install the batteries to the left of a wall mounted inverter for easy access to the DC side of the inverter and shorter cable runs. If an enclosure is used, it should be vented to the outside via a one inch vent pipe located at the top of the enclosure. Install an intake vent at the bottom of the enclosure to promote air circulation. These vents exhaust explosive hydrogen gases and must not be overlooked when designing an enclosure. It should be capable of holding the electrolyte from at least one battery should a leak occur. If it is installed in a cold environment, insulation should be used to protect the batteries from the cold. The insulation also provides a more consistent temperature and better system

performance. Locate the enclosure where it will be protected from the afternoon sun and provide vents in the top and bottom of the enclosure to provide air flow. High battery temperatures greatly shortens the life of the batteries. They include the following configurations. The generator must be of the permanently installed type and not a portable type unit used for emergency power. Small emergency type lower power generators may not have a stable enough voltage for the inverter to synchronize to or provide enough current to fully charge the batteries. Since the battery charger uses only the top portion of the input sine wave, small variations in peak voltage result in large variations in the amount of energy to the charger.

The charger's rated output is based on a utility voltage of 120 Vac RMS the usual measured value. This should have a peak voltage of 169 Vac p p 230 Vac has a peak voltage of 325 Vac. For every 10 volts of peak lost, the charge rate is reduced by approximately half. If not, then 2x4's or plywood can be used. Have extra people on hand to assist in lifting the inverter into position while it is being secured. The length of the line must span at least three studs. Place the center of the second 2 x 4 over this line and secure to the wall as described in Step 5. Grounding requirements vary by country and application. Consult the NEC for specific requirements. This is the single point earth ground for the inverter system. Very often issues with Xantrex Technology DR1524E begin only after the warranty period ends and you may want to find how to repair it or just do some service work. Even oftener it is hard to remember what does each function in Battery Charger Xantrex Technology DR1524E is responsible for and what options to choose for expected result. Fortunately you can find all manuals for Battery Charger on our side using links below. What proof of purchase is required. What does this warranty not cover 116 Disclaimer Product Exclusions Warning Limitations On Use 117 Return Material Authorization Policy Return Procedure If you are returning a product from outside of the USA or Canada If you are returning a product to a Xantrex Authorized Service Center ASC A Xantrex return Out of Warranty Service 118 Information About Your System 119 Index A B C F I P R S W X. Be sure to check that it is the user manual to exactly the device that you are looking for. In our database Xantrex Technology DR1524E it belongs to the category Battery Charger.

A user manual Xantrex Technology DR1524E is taken from the manufacturer, a Xantrex Technology company it is an official document, so if you have any doubts as to its contents, please contact the manufacturer of the device Xantrex Technology DR1524E directly. You can view the user manual Xantrex Technology DR1524E directly online or save and store it on your computer. If you have any questions, you can ask them in the form below. Other users viewing this website will have the opportunity to help you solve your problem with Xantrex Technology DR1524E. Remember that you can also share the solution. If you solved the problem yourself, please write the solution to the problem with Xantrex Technology DR1524E you will surely help many users by doing so. Ask a question our users can help you. Discover everything Scribd has to offer, including books and audiobooks from major publishers. Report this Document Download Now Save Save DR1524E.pdf For Later 0 ratings 0% found this document useful 0 votes 12 views 122 pages DR1524E.pdf Uploaded by Cristihan Renteria Description Full description Save Save DR1524E.pdf For Later 0% 0% found this document useful, Mark this document as useful 0% 0% found this document not useful, Mark this document as not useful Embed Share Print Download Now Jump to Page You are on page 1 of 122 Search inside document Browse Books Site Directory Site Language English Change Language English Change Language. Xantrex Technology DR1524E page 4 About Xantrex Xantrex Technology Inc. Scope The Manual provides safety guidelines, detailed planning and setup information, procedures for installing the. Xantrex Technology DR1524E page 6 About This Manual iv 97500120102 Rev A Conventions Used The following conventions are used in this guide. Abbreviations and Acronyms Related Information You can find more information about Xantrex Technology Inc. Xantrex Technology DR1524E page 9 Safety 97500120102 Rev A vii Precautions When Working With Batteries 1.

Make sure the area around the battery is well ventilated. 2. Never smoke or allow a spark or flame near the engine or batteries. 3. Use caution to reduce the risk of dropping a metal tool on the battery. It could spark or short circuit the battery or other electrical parts. Xantrex Technology DR1524E page 10 viii. Xantrex Technology DR1524E page 18 xvi. The inverter features an AC passthrough circuit, powering your home appliances. Figure 11 Front Panel Features DC End Front Panel Controls and Indicators Battery Caps AC End Battery Sense Port COM Port Figure 12 AC Side. Remote Control RC8 The RC8 allows the inverter to be switched ON or OFF remotely. Verify all of the items listed on the packing material sheet are present. Please call Xantrex Customer Service at 800 6700707 if any items are missing. Save your proof of purchase. This is required if the unit should require warranty service. Save the original shipping carton and packing materials. These standards guarantee that the DR. Location, mounting, and ventilation should be taken into consideration before any cabling can be done. Location Inverters contain sophisticated electronic components and should be located in a well. The keyhole slots must not be used as the only method of mounting. The purpose of the wall mounting requirement is to orient the inverter so that its bottom cover, which has no holes, will not obstruct access to the battery caps. They should be located as close to the inverter as possible without limiting access to the inverter's disconnects. Install the batteries to the left of the generator must be of the permanently installed type and not a portable. DC Circuit Grounding Grounding is an important part of the system installation and must be done. Before proceeding, ensure you have the appropriate sized batteries for this inverter.

Battery Types Batteries are available in different sizes, amp-hour ratings, voltage, liquid or gel, vented or nonvented, etc. Larger diameter cables smaller AWG number have less voltage drop and are, therefore, more efficient when transferring power to and from the batteries. If a cable is undersized, fuses and disconnects must be sized to protect the wiring in the system and are required to open before the wire reaches its maximum current carrying capability. Soldered connections alone are not acceptable. High quality, UL listed battery cables are available from Xantrex in an assortment of lengths. Installing a BTS extends battery life by preventing overcharging in warm temperatures and undercharging in cold temperatures. Important The lower AC cover varies depending on the model. DR24XX and DR36XX models are equipped with a conduit box and not a plate. The conduit box is required for the larger diameter wire provided. Connect the other end of this wire to the GROUND bus in the subpanel. 2. Connect the NEUTRAL white wire to the inverter. The generator can be used during extended outages to recharge the battery. Figure 220 AC Wiring using a 120 V ac Generator OffGrid Application. Figure 221 AC Wiring using a 240 V ac Generator with 120 V ac Loads only OffGrid Application. Series stacking can also be used to connect to 240 V ac on only power systems providing both 120 and 240 V ac. Both ports are RJ11 type telephone style connectors. One is used for connecting a remote control to the inverter. The other is used for regulating the charger voltage based on the temperature of the battery bank. The remote control must be connected prior to switching the inverter ON; otherwise, the microcontroller with search mode enabled, the inverter pulses the AC output looking for an applied load. With no load detected, the inverter goes to sleep. The level should be adjusted to provide a charge rate less than or equal to the amp-hour.

The settings do not need to be exact, but should be as close as possible to the actual value required. The inverter circuitry calculates the lowest safe DC voltage leaving approximately 20% battery capacity. Whenever the external AC source drops below the AC Transfer Voltage set by the potentiometer, the inverter switches to battery. Setting the AC Transfer Voltage potentiometer between these values will allow the incoming source voltage to drop to this level. These LEDs blink or change color depending on the condition or function they are displaying. If the condition persists, the inverter will shut down until the battery voltage returns to a safe level and then restart. The passthrough AC input circuit breaker protects the AC wiring and connected load. The charger AC input circuit breaker protects the charger. Recheck the controls and ensure they are in the proper position. Recheck all

wiring and ensure it is correct. Starting the inverter 1. Apply DC power to the invert. Whenever nominal AC is present at the inverter's input, it passes power through to the connected load and begins charging the batteries, indicated by the dual color BATTERY CHARGER LED. During use, the battery's cells can become unequal in the voltage and current they can deliver. This is due to a buildup of sulfate on the plates as well as stratified electrolyte. Sulfate prevents the cells from receiving or delivering. To start the equalization charging process, cycle the AC power i.e., disconnect and then reconnect the AC source. A solid orange BATTERY CHARGER LED indicates equalize charge. Table 41 Troubleshooting the DR Inverter Error Condition Possible Cause Solution No AC output voltage and no warning. The following describes some of the common problems encountered when using an inverter. Ceiling Fans Most large diameter, slow turning fans run correctly. There may be periods where clocks keep time and then myster.

Laser printers, however, require high current for their fusing circuit and are not recommended for use with an inverter. Rechargeable Devices When first using a rechargeable device, monitor its temperature for 10 minutes to ensure. Xantrex Technology DR1524E page 91 B Battery Information Appendix B, "Battery Information" supplies general information about batteries such as battery types, battery bank sizing, battery configurations, and battery care. They are also available for starting applications such as an automobile starting battery and deep discharge applications. Recommendations Consider this. Since these batteries are valve regulated, overcharging can cause irreversible damage. Attributes Attributes of sealed batteries are NiCad and NiFe. The hour rating refers to the time it takes to discharge the batteries. A faster hour rate 6 hour rate means more current is withdrawn from the batteries during. Understanding Amperes Requirements Amperes To estimate the battery bank requirements, you must first calculate the amount of power you. Check the manufacturer's data sheets for their starting current requirements. If you will be starting large motors from the inverter, increase. Worksheets Table B1 and Table. In addition, the batteries can be wired to provide additional run time. The various wiring configurations are Series Wiring batteries in series increases the total bank. The voltage of the battery bank remains the same as an individual battery. "Parallel" configurations extend the run times of the AC loads by providing increase. Steps It is done in three steps; wiring. To ensure even charging of the batteries, each inverter must be connected to both strings i.e., positive cable to string two, and negative cable to string one. This includes setting the proper voltages for Bulk and Float charging. The temperature compensation calculations are derived from Table B5. Table B4 Variations in Charging Voltage based on Battery Temperature.

Effect Equalize charging also produces gassing which stirs up the electrolyte mixture and helps distribute the acid more evenly. Nonequalized battery. Only distilled water should be used in a battery, as tap or mineral water may contain contaminants which will upset the battery chemistry and may damage the battery. First thing in the morning is usually the best time to check the state of charge. If the batteries are readily accessible. Xantrex Technology DR1524E page 109 C Multiwire Branch Circuit Wiring Appendix C, "Multiwire Branch Circuit Wiring" supplies information about Multiwire Branch Circuit Wiring Precautions when using standalone 120 V ac inverters or generators. WARNING A possible fire hazard can exist if 120 V ac only sources such as inverters and generators are wired incorrectly. Legacy situation Multiwire branch circuits are wired differently from. This warranty period lasts for Warranty period from the date of purchase. This Limited Warranty does not cover normal wear and tear of the product or costs related to the removal, installation, or troubleshooting of the customer's electrical systems. This warranty does not apply to and Xantrex will not be responsible for any. Products must also be shipped prepaid. Product shipments will be refused and returned at your expense. If you need to contact Customer Service, please record the following details before calling. This information will help our representative. Xantrex Technology DR1524E page 120 IX2. Xantrex Technology DR1524E page 121. They are, among others Xantrex Technology technical drawings DR1524E manuals Xantrex Technology

product data sheets information booklets or energy labels Xantrex Technology DR1524E All of them are important, but the most important information from the point of view of use of the device are in the user manual Xantrex Technology DR1524E. Depending on your needs, you should look for the document you need.

In our website you can view the most popular manual of the product Xantrex Technology DR1524E. Manuals are usually written by a technical writer, but in a language understandable to all users of Xantrex Technology DR1524E. A complete Xantrex Technology manual, should contain several basic components. However, the remaining part should provide us with information that is important from the point of view of the user. If a user had a similar problem with Xantrex Technology DR1524E it is likely that he will want to share the way to solve it. The diagram where the Brocas place is in the brain has been a mystery for many years. In the quest to find the answer, researchers want to map the way the Brocas region is dispersed in the mind and try to find out which regions are used for speech. The language regions of the mind are a sizable section of the brain. The Brocas region is the little portion that relates to the engine functions of the brain. Its a very important part of the language system. The Brocas area lies within an area called the superior colliculus. The motor areas of the mind are where the hand and arm movements are performed. The region of the brain that deals with the process of moving parts from the body is called the supplementary motor area. These motor regions lie in the anterior part of the frontal cortex. A different portion of the human brain thats responsible for speech and language is that the adrenal gland. This part of the brain is where distinct sounds are processed and connected to the language system. Some researchers have attempted to connect these regions so as to understand how they operate together. The diagram where the Brocas place is in the brain has been a puzzle for several years. Studies have shown that many scientists are still trying to work out exactly where the Brocas area is located. They are looking for a means to spot the locations which are damaged in Parkinsons disease.

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