



VEHICLE POWER SYSTEM 750 WATT POWER INVERTER WITH USB CHARGING PORT INSTRUCTION MANUAL



Catálogo Número P1750AB

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SAVE THIS MANUAL FOR FUTURE REFERENCE.

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SAFETY GUIDELINES / DEFINITIONS

⚠ DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. **⚠ WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. **⚠ CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. **CAUTION:** Used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage. **RISK OF UNSAFE OPERATION.** When using tools or equipment, basic safety precautions should always be followed to reduce the risk of personal injury. Improper operation, maintenance or modification of tools or equipment could result in serious injury and property damage. There are certain applications for which tools and equipment are designed. Black & Decker strongly recommends that this product NOT be modified or used for any application other than for which it was designed. Read and understand all warnings and operating instructions before using any tool or equipment.

IMPORTANT SAFETY INSTRUCTIONS

GENERAL SAFETY WARNINGS AND INSTRUCTIONS FOR ALL APPLIANCES READ ALL INSTRUCTIONS

- ⚠ **WARNING:** Read all instructions before operating product. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
- **AVOID DANGEROUS ENVIRONMENTS.** Don't use appliances in damp or wet locations. Don't use appliances in the rain.
- **STORE IDEAL APPLIANCES INDOORS.** When not in use, appliances should be stored indoors in dry, and high or locked-up places out of reach of children.
- **DON'T FORCE APPLIANCE.** It will do the job better and with less likelihood of a risk of injury at the rate for which it was designed.
- **USE RIGHT APPLIANCE.** Do not use the appliance for any job except that for which it is intended.
- **DISCONNECT APPLIANCES.** Disconnect the appliance from the power supply when not in use, before servicing, and when changing accessories attached to the appliance.
- **PROPER COOLING IS ESSENTIAL WHEN OPERATING THE INVERTER.** Do not place the unit near the vehicle's heat vent or in direct sunlight.
- **ELECTRICAL FAULT CIRCUIT INTERRUPTOR** protection should be provided on the circuits or outlets to be used. Recables are available having built in electrical fault circuit interruptor protection and may be used for this measure of safety.
- **USE OF ACCESSORIES AND ATTACHMENTS.** The use of any accessory or attachment not recommended for use with this appliance could be hazardous. **Note:** Refer to the accessory section of this manual for further information.
- **CHECK DAMAGED PARTS.** A part that is damaged should be properly repaired or replaced by an authorized service center.
- **OUTDOOR USE EXTENSION CORDS.** When an appliance plugged into this unit is used outdoors, use only extension cords intended for use outdoors and so marked. **NOTE THAT THIS INVERTER IS NOT INTENDED TO BE USED ON OUTDOORS.**
- **EXTENSION CORDS.** Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The following table shows the correct size to use depending on cord length and approximate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Volts	Minimum Gauge for Cord Sets Total Length of Cord in Feet				
	0-25 (0-7.6m)	26-50 (7.6-15.2m)	51-100 (15.2-30.4m)	101-150 (30.4-45.7m)	151-200 (45.7-60.9m)
120V	12	14	16	18	20
240V	12	14	16	18	20

More Than		Rating		American Wire Gauge				
Amps	Volts	10	12	14	16	18	20	22
0	6	18	16	16	14	14	12	
6	10	18	16	14	14	12		
10	12	16	14	12				
12	16	14	12	Not Recommended				

- ⚠ **WARNING:** This product or its power cord contains lead, a chemical known to the State of California to cause cancer and birth defect or other reproductive harm. Wash hands after handling.
- ⚠ **WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK:**
- Do not connect to AC distribution wiring.

- Do not make any electrical connections or disconnections in areas designated as IGNITION PROTECTED. This includes DC cigarette lighter type plug connection or airplane adapter. This unit is NOT approved for ignition protected areas.
- NEVER immerse the unit in water or any other liquid, or use when wet.
- Do not insert foreign objects into the AC outlet or the USB outlet.
- ⚠ **WARNING: TO REDUCE THE RISK OF FIRE:**
- Do not operate near flammable materials, fumes or gases.
- DO NOT expose to extreme heat or flames.
- ⚠ **CAUTION: TO REDUCE THE RISK OF INJURY OR PROPERTY DAMAGE:**
- Remove appliance plug from outlet before working on the appliance.
- DO NOT attempt to connect or set up the unit or its components while operating your vehicle. Not paying attention to the road may result in a serious accident.
- Always use the inverter where there is adequate ventilation. Do not block ventilation slots.
- ALWAYS turn the inverter OFF by disconnecting it from the DC accessory outlet when not in use.
- Make sure the nominal powering voltage is 12 volts DC, center connection positive (+).
- When using this unit in a vehicle, check the vehicle owner's manual for maximum power rating and recommended output. Do not install in engine compartment — install in a well ventilated area.
- Do not use with positive ground electrical systems*. Reverse polarity connection will result in a blown fuse and may cause permanent damage to the inverter and will void warranty.
- *The majority of modern automobiles, RVs and trucks are negative ground.
- Keep in mind that this inverter will not operate high wattage appliances or equipment that produce heat, such as hair dryers, microwave ovens and toasters.
- Do not open the inverter — there are no user-serviceable parts inside.
- Do not use this inverter with medical devices. It is not tested for medical applications.
- Keep away from children. This is not a toy!
- Install and operate unit only as described in this Instruction Manual.
- Do not use this inverter on a watercraft. It is not qualified for marine applications.
- Check unit periodically for wear and tear. Take to a qualified technician for replacement of worn or defective parts immediately.
- Read And Understand This Instruction Manual Before Using This Unit.

SAVE THESE INSTRUCTIONS

- ⚠ **WARNING: TO REDUCE THE RISK OF INJURY:** Follow these instructions and those published by battery manufacturer and the manufacturer of any equipment you intend to use with this unit. Review cautionary markings on these products and on engine.

INTRODUCTION

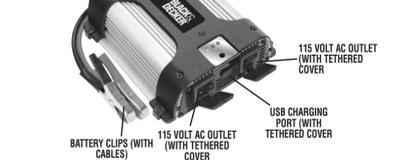
Thank you for purchasing the **P1750AB 750 Watt Power Inverter with USB Charging Port**. This inverter can be used to operate personal electronics such as: laptop computers, digital/video cameras, MP3 players, cell phones, PDAs, and more. It can also be used to recharge 110/120 volt AC devices that have an appropriate recharging adapter with a standard North American two- or three-prong plug. Please read this Instruction Manual carefully before use to ensure optimum performance and to avoid damage to this product.

FEATURES

The front panel provides three LED indicators. The AC and USB outlets are ready to use. The green LED indicates power and proper operation of the inverter. The AC and USB outlets are ready to use. The red LED indicates inverter shutdown from an over-load or over-temperature failure and the yellow LED indicates an input fault. (If the red or yellow Fault LED Indicator lights, refer to the Troubleshooting Section of this Instruction Manual.) The Power Pushbutton turns the inverter ON and OFF. It can also be used to force reset of inverter circuits by pressing it OFF (no LEDs are lit), then back ON again.

AC power is supplied through two standard North American three-prong type outlets. The outlets can accommodate either two- or three-pin AC plugs.

Controls and Functions



HOW THIS INVERTER WORKS

This inverter is an electronic device that converts low voltage DC (direct current) electricity from a battery to 115 volt AC (alternating current) household power. In designing this inverter, Black & Decker has incorporated design techniques previously employed in computer power supplies. The result of these design innovations is a smaller, lighter and easier-to-use power inverter.

The **750 Watt Power Inverter with USB Charging Port** converts power to two stages. The first stage is a DC-to-DC conversion process that raises the low voltage DC at the inverter input to 145 volts DC. The second stage is a MOSFET bridge stage that converts the high voltage DC into 115 volts, 60 Hz AC.

The DC-to-DC converter stage uses creative, high frequency, zero voltage switching power conversion techniques that replace the bulky transformers found in less technologically advanced models. The inverter stage uses advanced novel MOSFET technology to create a full bridge configuration.

Power Inverter Output Warnings
The AC output waveform of this inverter is known as a modified sine wave. It is a stepped waveform that has characteristics similar to the sine wave stage of utility power. This type of waveform is suitable for most AC loads, including line and switching power supplies used in electronic equipment, transformers, and small motors. The modified sine wave produced by this inverter has an RMS (root mean square) voltage of 115 volts. Most AC meters (both digital and analog) are sensitive to the average value of the waveform rather than the RMS value. These meters will not correctly read the RMS voltage of a modified sine wave. Non-TRUE RMS meters will read about 20 to 30 volts low when measuring the output of this inverter. For accurate measurement of the output voltage of this unit, use a TRUE RMS reading voltmeter such as a Fluke 87, Fluke 8080A, Beckman 4410 or Triplet 4200.

115 Volt AC Output

- ⚠ **CAUTION — Rechargeable Devices**
- Certain rechargeable devices are designed to be charged by plugging them directly into an AC receptacle. These devices may damage the inverter or the charging circuit.
- When using a rechargeable device, monitor its temperature for the initial ten minutes of use to determine if it is charging normally.
- If excessive heat is produced, this indicates the device should not be used with this inverter.
- This problem does not occur with most battery-operated equipment. Most of these devices use a separate charger or transformer that is plugged into an AC receptacle.
- The inverter is capable of running most chargers and transformers.

MAXX SST™ Soft Start Technology*
Black & Decker's Soft Start Technology gradually "ramps up" the inverters power to slowly start appliances that require a surge to get started. This feature's gradual ramp up protects the inverter and the appliance, as well as the power source, from damage and failure.

OPERATING INSTRUCTIONS
The Power Inverter must be connected only to batteries with a nominal output voltage of 12 volts. The unit will not operate from a 6 volt battery and will sustain permanent damage if connected to a 24 volt battery. Always connect the **P1750AB** to the 12 volt DC power source before plugging any devices into the unit. The standard North America 115 volt AC and USB outlets allow simultaneous operation of multiple devices. Simply plug the equipment into the unit and operate normally. **Ensure that the wattage of all equipment simultaneously plugged into the P1750AB does not exceed 750 watts continuous.**

Connection to Power Source
The Power Inverter comes equipped with Battery Clips for connection to a power source. **Connecting to a Power Source Using the Provided Battery Clips**
Use the provided Battery Clips (with cables) to connect the Power Inverter directly to the 12 volt power source as follows:

1. Check to make sure the inverter's Power Pushbutton has been pressed OFF (no LEDs are lit) and that no flammable fumes are present in the installation area.
 2. Connect the RED cable to the RED post marked (+) on the back of the inverter. Connect the RED Battery Clip to the POSITIVE terminal of the battery.
 3. Connect the BLACK cable to the BLACK post marked (-) on the back of the inverter. Connect the Black Battery Clip to the NEGATIVE terminal of the battery.
 4. Make sure that all connections between cables and terminals are secure.
- ⚠ **CAUTIONS:**
- Do not use with positive ground electrical systems.
 - Reverse polarity connection will result in a blown fuse and may cause permanent damage to the inverter.
 - Note: The majority of modern automobiles, RVs and trucks are negative ground.

Direct Hardwiring to Power Source (optional connection method; hardware not included)
⚠ **WARNING:** It is not recommended to install with cables longer than 10ft as this can adversely effect the operation of your inverter.

Use #14 AWG wire if the inverter to power source connection is 6 feet or less. For cable lengths up to 10ft use #2AWG wire. In either case, protect the positive (+) wire from shorts by installing a 125 AMP fuse or circuit breaker close to the DC power source (battery) terminal.

1. Check to make sure the inverter's Power Pushbutton has been pressed OFF (no LEDs are lit) and that no flammable fumes are present in the installation area.
2. Identify the POSITIVE (+) and NEGATIVE (-) DC power source (battery) terminals.
3. Install a fuse holder or breaker close to the POSITIVE (+) terminal of the DC source (battery).
4. Connect a length of wire on one side of the fuse holder or circuit breaker. Connect the other end of the wire to the POSITIVE (+) terminal of the inverter.
5. Connect a length of wire between the inverter's NEGATIVE (-) terminal and the DC power source NEGATIVE (-) terminal.
6. Connect a free length of wire to the other terminal of the fuse holder or circuit breaker. Mark it "POSITIVE" or "+".
7. Connect the short end of the fuse or breaker wire to the POSITIVE (+) terminal of the DC power source (battery).
8. Insert a fuse appropriate to the inverter in the fuse holder.
9. Test the inverter by turning it on and plugging in a 100 watt lamp or equipment.
10. If the inverter is not properly operating, then refer to the Troubleshooting section of this manual.

⚠ **CAUTION**
• The cable and fuse sizes given here are a general recommendation. You should always consult your National Electrical Code prior to beginning each specific installation.
• Loose connectors may cause overheated wires and melted insulation.
• Check to make sure you have not reversed the polarity. Damage due to reversed polarity is not covered by our warranty.
• Loose connectors may cause overheated wires and melted insulation.
• Check to make sure you have not reversed the polarity. Damage due to reversed polarity is not covered by our warranty.

Connection to Load

The Power Inverter is equipped with dual standard North American three-prong type outlets. Plug the cord from the equipment you wish to operate into the AC receptacle(s). Make sure the combined load requirement of your equipment does not exceed maximum continuous power.

The Power Inverter is engineered to be connected directly to standard electrical and electronic equipment in the manner described above. Do not connect the Power Inverter to household or RV AC distribution wiring. Do not connect the Power Inverter to any AC load circuit in which the neutral conductor is connected to ground (earth) or to the negative of the DC (battery) source.

⚠ **WARNING: Do not connect to AC distribution wiring!**
Rated Versus Actual Current Draw of Equipment
Most electrical tools, appliances, electronic devices and audio/visual equipment have labels that indicate the power consumption in amps or watts. Be sure that the power consumption of the item to be operated is below 750 watts. If the power consumption is rated in amps AC, simply multiply by the AC volts (115) to determine the wattage.

Resistive loads are the easiest for the inverter to run; however, it will not run larger resistive loads (such as electric stoves and heaters), which require far more wattage than the inverter can deliver. Inductive loads (such as TVs and stereos) require more current to operate than do resistive loads of the same wattage rating.

For safety reasons, the unit will simply shut down if it is overloaded. To restart the unit, simply unplug all devices plugged into the unit; disconnect the unit from any 12 volt DC power source; then reconnect the unit BEFORE plugging the appliance back in.

- Operation of the 115 Volt AC Outlets**
1. Connect the inverter to a functioning 12 volt DC power source as described in this Instruction Manual. Make sure there is adequate space for proper ventilation of the inverter.
 2. Press the Power Pushbutton to turn the unit ON.
 3. The green Power LED Indicator will light, indicating a proper connection. If either the yellow Input Fault LED Indicator or red Output Fault LED Indicator lights, indicating a fault condition exists, refer to the "Troubleshooting" section of this Instruction Manual.
 4. Plug the (110/120 volt AC) appliance into one of the Inverter's three-prong AC outlets and operate normally. **Note:** The Inverter will not operate appliances and equipment that generate heat, such as hair dryers, electric blankets, microwave ovens and toasters.
 - Remember to disconnect the inverter from any power source when not in use.

Operation of the USB Charging Port

1. Connect the inverter to a functioning 12 volt DC power source as described in this Instruction Manual. Make sure there is adequate space for proper ventilation of the inverter.
2. Press the Power Pushbutton to turn the unit ON.
3. The green Power LED Indicator will light, indicating a proper connection. If either the yellow Input Fault LED Indicator or red Output Fault LED Indicator lights, indicating a fault condition exists, refer to the "Troubleshooting" section of this Instruction Manual.
4. Plug the USB-powered device into the inverter's USB Charging Port and operate normally. **Note:** The inverter's USB Charging Port does not support data communication. It only provides 5 volts/500mA DC power to an external USB-powered device.
- Remember to disconnect the inverter from any power source when not in use.

Protective Features
The inverter monitors the following conditions:

- Low Battery Voltage** — This condition is not harmful to the inverter, but could damage the power source, so the inverter will automatically shut down when input voltage drops below 10.5 ± 0.3 volts DC.
- Input Voltage Too High** — The inverter will automatically shut down when DC input voltage exceeds 15.5 ± 0.5 volts, as this can harm the unit.
- Thermal Shutdown Protection** — The inverter will automatically shut down when the unit becomes overheated.
- Overload/Short Circuit Protection** — The inverter will automatically shut down when a short circuit occurs.

Operating Tips
The inverter should only be operated in locations that are:

- **DRY** — Do not make any electrical connections or disconnections in areas designated as IGNITION PROTECTED. This includes DC cigarette lighter type plug connection or airplane adapter. This unit is NOT approved for ignition protected areas.
- **SAFE** — Do not use the inverter near flammable materials or in any locations that may accumulate flammable fumes or gases. This is an electrical appliance that can briefly spark when electrical connections are made or broken.
- **VENTILATED** — Keep the area surrounding the inverter clear to ensure free air circulation around the unit. Do not place items on over the inverter during operation. The unit will shut down if the internal temperature gets too hot. The inverter will auto-reset after it cools down.
- **SAFE** — Do not use the inverter near flammable materials or in any locations that may accumulate flammable fumes or gases. This is an electrical appliance that can briefly spark when electrical connections are made or broken.
- **COOL** — Surrounding air temperature should ideally be 10-20°C (50-68°F). Keep the inverter away from direct sunlight, when possible.

WELL-VENTILATED — Keep the area surrounding the inverter clear to ensure free air circulation around the unit. Do not place items on over the inverter during operation. The unit will shut down if the internal temperature gets too hot. The inverter will auto-reset after it cools down.

SAFE — Do not use the inverter near flammable materials or in any locations that may accumulate flammable fumes or gases. This is an electrical appliance that can briefly spark when electrical connections are made or broken.

Fuse Replacement
This inverter is equipped with multiple internal fuses. Normally, these fuses will not "blow" unless there is a serious problem inside the unit. Internal fuses are replaceable; however, only trained personnel should attempt fuse replacement. If the unit is damaged during fuse replacement, the warranty may be voided.

TROUBLESHOOTING

Problem	Explanation/Recommendation
Buzzing sound in audio systems	Some inexpensive stereo systems and boom boxes make a buzzing sound when operated from the inverter, because the power supply in the electronic device does not properly filter the modified sine wave produced by the inverter. The only solution to this problem is to use a sound system that has a higher quality power supply.
Problem: Interference Television	The inverter is shielded to minimize interference with TV signals. However, in some instances, some interference may still be visible, especially when the TV signal is weak. Try the following to improve the picture: 1. Move the inverter as far away as possible from the TV set, the antenna, and the antenna cables. Use a short AC extension cord, if necessary. 2. Adjust the orientation of the antenna cables, and the TV power cord to minimize interference. 3. Make sure that the antenna feeding the TV provides an adequate (snow-free) signal and that high quality, shielded antenna cable is used.

Common Power Output Problems

Possible Cause	Recommendation
Battery voltage below 10.5 volts	Recharge battery or check DC power supply.
Equipment being operated draws too much power	• Reduce load to maximum 750 watts.
Inverter in thermal shutdown condition	Allow inverter to cool down. Ensure there is adequate ventilation around the load is no more than 750 watts for continuous operation.
AC output is shorted	Unplug the AC appliance. Disconnect the unit from any 12 volt DC power source. Check the appliance cord. Refer to the Service Information section that follows to contact a Black & Decker Service Center.

Red or Yellow Fault LED Indicator Lights

The red Fault LED indicates inverter shutdown from an over-load fault and the yellow Fault LED indicates an input or over-temperature fault. See the "Protective Features" and "Common Power Output Problems" sections.

ACCESSORIES
Recommended accessories for use with your tool are available from your local dealer or authorized service center. If you need assistance regarding accessories, please call: 1-800-544-6986.

⚠ **WARNING:** The use of any accessory not recommended for use with this tool could be hazardous.

SERVICE INFORMATION
All Black & Decker Service Centers are staffed with trained personnel to provide customers with efficient and reliable power tool service. Whether you need technical advice, repair, or genuine factory replacement parts, a Black & Decker location nearest you. To find your local service location, refer to the yellow page directory under "Tools—Electric" or call: **1-800-544-6986** or visit www.blackanddecker.com

FULL TWO-YEAR HOME USE WARRANTY
Black & Decker (U.S.) Inc. warrants this product for two years against any defects in material or workmanship. The defective product will be replaced or repaired at no charge in either of two ways. The first, which will result in exchanges only, is to return the product to the retailer from whom it was purchased (provided that the store is a participating retailer). Returns should be made within the time period of the retailer's policy for exchanges (usually 30 to 90 days after the sale). Proof of purchase may be required. Please check with the retailer for their specific return policy regarding returns that are beyond the time set for exchanges. The second option is to take or send the product (prepaid) to a Black & Decker owned or authorized Service Center for repair or replacement at our option. Proof of purchase may be required. Black & Decker owned and authorized Service Centers are listed under "Tools—Electric" in the yellow pages of the phone directory. This warranty does not apply to accessories. This warranty gives you specific legal rights and you may have other rights which vary from state to state or provincial province. Should you have any questions, contact the manager of your nearest Black & Decker Service Center. This product is not intended for commercial use.

FREE WARNING LABEL REPLACEMENT: If your warning labels become illegible or are missing, call **1-800-544-6986** for a free replacement.

LATIN AMERICA: This warranty does not apply to products sold in Latin America. For products sold in Latin America, check country specific warranty information contained in the packaging, call the local company or see the website for warranty information.

SPECIFICATIONS	750 watts
Maximum Continuous Power:	750 watts
Surge Capacity:	1500 watts
USB Output:	5 V DC (500mA)
Input Voltage:	12 volts
Output Voltage:	Approx. 115 volt AC RMS 60 Hz
Low Voltage Shutdown:	11.0 volts DC
Thermal Shutdown:	Automatic
Wave Form:	Modified Sine Wave (MSW)
Output Connection:	International Standard Receptacles
Fuses:	Internal
Input Cables:	Battery clip cables
Operating Temperature:	10-20°C (50-68°F)
Storage Temperature:	0-40°C (32-104°F)
Operating/Relative Humidity:	5-95% non-condensing

Capacity nominal en amperios

Capacidad nominal en amperios	Medida de conductor estadounidense				
Max. Then	18	16	14	12	10
0 - 6	18	16	16	14	14
6 - 10	18	16	14	12	12
10 - 12	16	16	14	12	12
12 - 16	14	12	Not recommended		

Capacitat nominal en amperis

Capacitat nominal en amperis	Medida de conductor estadounidense				
Max. Then	18	16	14	12	10
0 - 6	18	16	16	14	14
6 - 10	18	16	14	12	12
10 - 12	16	16	14	12	12
12 - 16	14	12	Not recommended		

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SISTEMA DE ENERGÍA DEL VEHÍCULO CONVERSOR ELÉCTRICO DE 400 VATIOS CON PUERTO DE CARGA USB MANUAL DE INSTRUCCIONES



Número de catálogo P1750AB

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LEA EL MANUAL ANTES DE DEVOLVER ESTE PRODUCTO POR CUALQUIER MOTIVO:

Si tiene una consulta o algún inconveniente con su producto Black & Decker, visite [HTTP://WWW.BLACKANDECKER.COM/INSTANTANSWERS](http://www.blackanddecker.com/instantanswers) para obtener respuestas instantáneas las 24 horas del día.

Si no encuentra la respuesta o no tiene acceso a Internet, llame al 1-800-544-6986 de lunes a viernes de 8 a.m. a 5 p.m. hora del Este para hablar con un agente.

Cuando llame, tenga a mano el número de catálogo.

CONSERVE ESTE MANUAL PARA FUTURAS CONSULTAS.

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NORMAS DE SEGURIDAD: DEFINICIONES

- ⚠ **PELIGRO:** Indica una situación de peligro inminente que, si no se evita, provocará la muerte o lesiones graves.
- ⚠ **ADVERTENCIA:** Indica una situación de peligro potencial que, si no se evita, podría provocar la muerte o lesiones graves.
- ⚠ **PRECAUCIÓN:** Indica una situación de peligro potencial que, si no se evita, provocará lesiones leves o moderadas.

4. Si el convertidor no funciona, asegúrese de que el interruptor de accesorios/ignición esté suministrando realmente energía al tomacorriente para accesorios. Algunos vehículos exigen que el interruptor de ignición esté en la posición de encendido.
5. Encufhe el dispositivo eléctrico USB en el puerto de carga USB del convertidor y opere normalmente.

Nota: El Puerto de carga USB del convertidor no admite comunicación de datos. Sólo proporciona energía de CC de 5 voltios/500 mA a un dispositivo eléctrico USB externo.

Características de protección

El convertidor supervisa las siguientes condiciones:

Voltaje bajo de la batería: este estado no es perjudicial para el convertidor, pero puede dañar la fuente de energía, de modo que el convertidor se apagará automáticamente cuando el voltaje de entrada disminuya a una CD de 10,5 a 0,3 voltios por debajo de su nivel de funcionamiento normal. La unidad se reiniciará automáticamente.

Protección contra voltaje en exceso: el convertidor se apagará automáticamente cuando el voltaje de entrada sea mayor a una CD de 15,5 ± 0,5 voltios.
Protección de apagado térmico: El convertidor se apagará automáticamente cuando la unidad se sobrecaliente.
Protección contra cortocircuitos: el convertidor se apagará automáticamente en presencia de un cortocircuito. El convertidor se reiniciará automáticamente después de quitar el cortocircuito.

Sugerecias de operación

El convertidor sólo debe operarse en lugares:

SECOs: No permita que el agua u otros líquidos entren en contacto con el convertidor.

FRESCOS: La temperatura ambiente debe estar entre 10 y 20 °C (50 y 68 °F). Mantenga el convertidor lejos de la luz solar directa siempre que sea posible.

BIEN VENTILADOS: Mantenga el área que rodea el convertidor limpia para garantizar la libre circulación de aire alrededor de la unidad. No coloque artículos ni sobre el convertidor durante su funcionamiento. La unidad se apagará si la temperatura interna se eleva demasiado. El convertidor se reiniciará automáticamente después de enfriarse.

SEGUROS: No utilice el convertidor cerca de materiales inflamables o en lugares donde se puedan acumular vapores o gases inflamables. Este es un aparato eléctrico que puede generar chispas durante breves períodos si se establecen conexiones eléctricas o éstas se rompen.

CUIDADO Y MANTENIMIENTO

Almacenamiento

1. La temperatura ideal de almacenamiento varía entre 0 °C a 40 °C (32 °F y 104 °F).
2. Almacene y use el convertidor en un lugar fresco y seco y con ventilación adecuada en los alrededores.
3. Evite los lugares expuestos a unidades de calefacción, radiadores, luz solar directa o humedad en exceso.

Reemplazo del fusible
Este convertidor viene con varios fusibles internos. Normalmente, estos fusibles no se “quemarán” a menos que exista un problema grave dentro de la unidad. Los fusibles internos pueden reemplazarse, no obstante, sólo debe hacerlo el personal capacitado para reemplazarlos. Si la unidad se daña durante el reemplazo del fusible, la garantía puede quedar anulada.

El fusible en el enchufe acortado del enchufe de la CB es el usuario-reemplazable. Cerciórese de a primero desconectar el enchufe de cualquier fuente de la potencia CC de 12 voltios, entonces sustituya el fusible por uno del mismo grado.

DETECCIÓN DE PROBLEMAS

Problemas visuales/de audio/frecuentes

Causas posibles	Recomendaciones
El voltaje de la batería está por debajo de 10,5 voltios	Recargue la batería o verifique la fuente de energía de CC.
El equipo que se opera genera mucha calor	• Reduzca la carga a un máximo de 750 watts.
El convertidor está en la condición de apagado térmico	Espera que el convertidor se enfrie. Asegúrese de que haya una ventilación adecuada alrededor de la unidad y que la carga no sea mayor a 750 vatios para un funcionamiento continuo.
La salida de CA está en cortocircuito	Desenchufe la aplicación de la CA. Desconecte la unidad de cualquier fuente de la potencia CC de 12 voltios. Compruebe la conexión de la aplicación. Retierna la fuente de la información de servicio que sigue para entrar en contacto con un centro de servicio de Black & Decker.

Problemas frecuentes de potencia de salida

Problema	Algunas causas y recomendación
Zumbidos en los sistemas de audio	Equipos sistemas estéreos y estéreos económicos generan zumbidos cuando se ponen en funcionamiento desde el convertidor ya que la fuente de energía que los alimenta no filtra correctamente la onda senoidal modificada producida por el convertidor. La única solución a este problema es utilizar un sistema de sonido que posea una fuente de energía de calidad superior.
Interferencia con el televisor	El convertidor está protegido a fin de reducir al mínimo la interferencia con las 2. Todos los Centros de Servicio de Black & Decker cuentan con personal altamente capacitado dispuesto a brindar a todos los clientes un servicio eficiente y confiable en la reparación de herramientas eléctricas. Si necesita consejo técnico, reparaciones o piezas de repuesto originales de fábrica, póngase en contacto con el centro de servicio de Black & Decker más cercano a su domicilio. <ul style="list-style-type: none">Para ubicar su centro de servicio local, consulte la sección "Herramientas eléctricas" (Tools-Electrics) de las páginas amarillas, llame al 1-800-544-6986 o visite nuestro sitio www.blackanddecker.com. La primera opción, el reemplazo, es devolver el producto al comercio donde se adquirió (siempre y cuando se trate de un comercio participante). Las devoluciones deben realizarse conforme a la política de devolución del comercio (generalmente, entre 30 y 90 días posteriores a la venta). Le pueden solicitar el comprobante de compra. Consulte en el comercio acerca de la política especial sobre devoluciones una vez excedido el plazo establecido.
Luces de indicador LED rojas o amarillas de la avería <p>La luz LED roja de fallas indica que el convertidor se apagó debido a una sobrecarga y la luz LED amarilla de fallas indica que hay una falla en la entrada o por temperatura excesiva. Vea la sección productora de las características de este manual de instrucción y problemas comunes de la salida de energía en la sección siguiente.</p>	

ACCESORIOS

Los accesorios que se recomiendan para la herramienta están disponibles en su distribuidor local o en el centro de mantenimiento autorizado. Si necesita asistencia en relación con los accesorios, llame al **1-800-544-6986**.

⚠ **ADVERTENCIA:** El uso de accesorios no recomendados para utilizar con esta herramienta puede resultar peligroso.

INFORMACIÓN DE MANTENIMIENTO
Los centros de Servicio de Black & Decker cuentan con personal altamente capacitado dispuesto a brindar a todos los clientes un servicio eficiente y confiable en la reparación de herramientas eléctricas. Si necesita consejo técnico, reparaciones o piezas de repuesto originales de fábrica, póngase en contacto con el centro de servicio de Black & Decker más cercano a su domicilio.

- Para ubicar su centro de servicio local, consulte la sección "Herramientas eléctricas" (Tools-Electrics) de las páginas amarillas, llame al 1-800-544-6986 o visite nuestro sitio www.blackanddecker.com.

GARANTÍA COMPLETA DE DOS AÑOS PARA USO EN EL HOGAR
Black & Decker (Estados Unidos) Inc. ofrece una garantía de dos años por cualquier defecto del material o de fabricación de este producto. El producto defectuoso se reparará o reemplazará sin costo alguno de su parte.

La primera opción, el reemplazo, es devolver el producto al comercio donde se adquirió (siempre y cuando se trate de un comercio participante). Las devoluciones deben realizarse conforme a la política de devolución del comercio (generalmente, entre 30 y 90 días posteriores a la venta). Le pueden solicitar el comprobante de compra. Consulte en el comercio acerca de la política especial sobre devoluciones una vez excedido el plazo establecido.

La segunda opción es llevar o enviar el producto (con flete pagó) a un Centro de servicio propio o autorizado de Black & Decker para su reparación o reemplazo según nuestro criterio. Le pueden solicitar el comprobante de compra. Los Centros de servicio autorizados y de propiedad de Black & Decker se detallan en la sección "Herramientas eléctricas" (Tools-Electrics) de las páginas amarillas de la guía telefónica. Esta garantía no se extiende a los accesorios. Esta garantía le concede derechos legales específicos; usted puede tener otros derechos que pueden variar según el estado o la provincia. Si tiene alguna pregunta, comuníquese con el gerente del Centro de servicio de Black & Decker de su zona. Este producto no está diseñado para uso comercial.

| **AMÉRICA LATINA:** esta garantía no se aplica a los productos que se venden en América Latina. Para los productos que se venden en América Latina, debe consultar la información de la garantía específica del país que viene en el empaque, llamar a la compañía local o visitar el sitio Web a fin de obtener esa información. |

Para "Herramientas eléctricas" (Tools-Electrics) – Páginas amarillas – para Servicio y ventas

Ver **"Herramientas eléctricas" (Tools-Electrics)** – Páginas amarillas – para Servicio y ventas

Para OTRAS LOCALIDADES LLAME AL 01 800 847 2309 o 01 800 847 2312.

BLACK & DECKER S.A. DE C.V.
BOQUES DE CIDROS ACCESO RADIATAS NO. 42
COL. BOSQUES DE LAS LOMAS.
05120 MEXICO, D.F.
TEL. (01 55) 5326 7100
01 800 847 2309/01 800 847 2312

ESPECIFICACIONES

Energía continua máxima: 750 vatios
Capacidad de sobretensión: 1500 vatios
USB Output: 5 V DC (600mA)
Voltaje de entrada: 12.8 voltios
Voltaje de salida: RMS de CA de 115 voltios, 60 Hz aproximadamente
Alarma por voltaje bajo: CC de 11.0 voltios
Parada por voltaje bajo: CC de 10.5 ± 0.3 voltios
Apagado térmico: Automático
Forma de onda: Onda senoidal modificada (MSW, por su sigla en inglés)
Conexión de salida: Tomacorrientes estándar de los Estados Unidos
Fusibles: Internos
Cables de entrada: Cables del clip,z de la batería
Temperatura de operación: 10° a 20° C (50° y 68°° F)
Temperatura de almacenamiento: 0° a 40° C (32° a 104°° F)
Humedad relativa de operación: 5 a 95% no condensada

Garantía
- GARANTIA BLACK & DECKER - BLACK & DECKER WARRANTY

- SOLAMENTE PARA PROPOSITOS DE MEXICO

Distributor Name -	Sello firma del distribuidor
Date of purchase -	Fecha de compra
PRODUCT INFORMATION -	IDENTIFICACIÓN DEL PRODUCTO
Cat. No. / Catalogo ó Modelo	Serial Number - No. de serie
Name -	Nombre
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Telephone -	No. Teléfono

Invoice No. / No. de factura

Date of purchase -	Fecha de compra
PRODUCT INFORMATION -	IDENTIFICACIÓN DEL PRODUCTO
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Telephone -	No. Teléfono

1 AÑO DE GARANTIA
Este producto cuenta con 1 año de garantía a partir de la fecha de compra contra cualquier defecto de su funcionamiento, así como cualquier falla debido a materiales empleados para su fabricación o mano de obra defectuosa.
Nuestra garantía cubre la reparación o reposición o producto y/o componentes sin cargo alguno para el cliente incluyendo la mano de obra, esta incluye los gastos de trasportación erogados para lograr cumplimiento de esta garantía en los domicilios diversos señalados.

Para hacer efectiva esta garantía deberá presentarse su herramienta y esta póliza sellada por el establecimiento comercial donde se adquirió el producto.

Nos comprometemos a entregar el producto en un lapso no mayor a 30 días hábiles contados a partir de la fecha de recepción del mismo en nuestros talleres de servicio autorizados.

ESTA GARANTIA NO APLICA CUANDO:
El producto se hubiese utilizado en condiciones distintas a las normales.
El producto no hubiese sido operado de acuerdo con el instructivo de uso que se acompaña.
El producto hubiese sido alterado o reparado por personas no autorizadas por nosotros.
Importadora: Black & Decker S.A. de C.V.
Bosque de Cidros Acceso Radiatas No.42
3ra.Sección de Bosques de las lomas
C.P.05120, Mexico, D.F. Tel: (01 55) 5326 7100

SOLAMENTE PARA PROPOSITOS DE MEXICO

Herramientas y Equipos Profesionales
S.A. de C.V.
Col. Francisco I. Madero
Monterrey, Nvo. Leon
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Htas. Portátiles de Chihuahua, S.A. de C.V.
Av. Universidad No. 2903
Col. Fraccio. Universidad
Chihuahua, Chihuahua
Tel. 01 614 413 64 04

Ferre Pat de Puebla, S.A. de C.V.
Col. Fraccio. Universidad No. 6149
Col. El Cerrito
Puebla, Puebla
Tel. 01 222 264 12 12

Ferre Pat de Puebla, S.A. de C.V.
Ejército Mexicano No. 15
Col. Ejido 1to. de Mayo
Boca del Rio, Veracruz
Tel. 01 229 167 89 89

Servicio de Fabrica Black & Decker, S.A. de C.V.
Lázaro Cárdenas No. 18
Col. Obrera
Distrito Federal
Tel. 55 88 95 02

Representaciones Industriales Robles, S.A. de C.V.
Tetzomoc No. 89
Col. Arboledas
Distrito Federal
Tel. 55 61 86 82

Gpo. Comercial de Httas. y Refacciones de Occidente, S.A. de C.V.
Av. La Paz No. 1779
Col. L. Americana, S. Juárez
Guadalajara, Jalisco
Tel. 01 33 38 25 69 78

Para OTRAS LOCALIDADES LLAME AL 01 800 847 2309 o 01 800 847 2312.

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BLACK & DECKER

CONVERTISSEUR CONTINU-ALTERNATIF DE 750 WATTS AVEC PORT DE CHARGE USB POUR CIRCUIT ÉLECTRIQUE DE VÉHICULE

MODE D’EMPOI



Número de catalogo PI750AB

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Merci d’avoir choisi Black & Decker!
Consulter le site Web
www.BlackandDecker.com/NewOwner
pour enregistrer votre nouveau produit.

À LIRE AVANT DE RETOURNER CE PRODUIT POUR QUELQUE RAISON QUE CE SOIT :

Si des questions ou des problèmes surgissent après l'achat d'un produit Black & Decker, consultez le site Web

HTTP://WWW.BLACKANDDECKER.COM/INSTANTANSWERS

pour obtenir des réponses instantanément 24 heures par jour.

Si la réponse est introuvable ou en l'absence d'accès à Internet, composez le 1-800-544-6986 de 8 h à 17 h HNE, du lundi au vendredi, pour parler avec un agent.

Prière d'avoir le numéro de catalogue sous la main lors de l'appel.

CONSERVER CE MODE D'EMPOI POUR UN USAGE ULTÉRIEUR.

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LIGNES DIRECTRICES EN MATIÈRE DE SÉCURITÉ/DÉFINITIONS

⚠ **DANGER :** Indique une situation dangereuse imminente qui, si elle n'est pas évitée, entraînera la mort ou des blessures graves.

⚠ **AVERTISSEMENT :** Indique une situation potentiellement dangereuse qui, si elle n'est pas évitée, pourrait entraîner la mort ou des blessures graves.

⚠ **MISE EN GARDE :** Indique une situation potentiellement dangereuse qui, si elle n'est pas évitée, pourrait entraîner des blessures légères ou modérées.

RISQUE EN GARDE : Utilisé sans le symbole ⚠erte à la sécurité, indique une situation potentiellement dangereuse qui, si elle n'est pas évitée, pourrait entraîner des dommages matériels.

RISQUE D'UTILISATION DANGEREUSE. Lors de l'utilisation d'outils ou d'appareils, des précautions de base en matière de sécurité doivent être prises afin de réduire le risque de blessure corporelle. Un fonctionnement, un entretien ou une modification inappropriés des outils ou des appareils pourraient résulter en de graves blessures ou en des dommages matériels. Certains applications sont conçus pour des outils et appareils spécifiques. Black & Decker recommande fortement NE PAS modifier ce produit ou de NE PAS l'utiliser pour une application autre que celle pour laquelle il a été conçu. Lire et comprendre tous les avertissements et directives d'utilisation avant d'utiliser un outil ou un équipement.

INSTRUCTIONS DE SÛRETÉ IMPORTANTES

⚠ **DIRECTIVES ET AVERTISSEMENTS DE SÉCURITÉ GÉNÉRAUX POUR TOUTS LES APPAREILS ÉLECTRIQUES LIRE TOUTES CES DIRECTIVES**

⚠ **AVERTISSEMENT :** Lire toutes les directives avant d'utiliser le produit. Négliger de suivre toutes les directives suivantes peut entraîner des risques de chocs électriques, d'incendie et/ou de blessures graves.

• **ÉVITER LES ENVIRONNEMENTS DANGEREUX.** Ne pas utiliser les appareils électriques dans un endroit humide ou mouillé. Ne pas utiliser les appareils électriques sous la pluie.
• **TENIR LES ENFANTS À L'ÉCART.** Tous les visiteurs doivent se tenir éloignés de la zone de travail.
• **RANGER LES APPAREILS ÉLECTRIQUES ILOUÉS À L'INTÉRIEUR.** Lorsqu'ils ne sont pas utilisés, les appareils électriques doivent être rangés à l'intérieur dans un endroit sec, en hauteur ou dans un endroit verrouillé, hors de la portée des enfants.
• **NE PAS FORCER L'APPAREIL ÉLECTRIQUE.** Il fera un meilleur travail à la vitesse pour laquelle il a été conçu, et ce, sans risque de blessure.
• **UTILISER L'APPAREIL ÉLECTRIQUE APPROPRIÉ.** Ne pas utiliser l'appareil électrique pour une autre application que celle pour laquelle il a été prévu.

• **S'HABILLER DE MANIÈRE APPROPRIÉE.** Ne pas porter de vêtements amples ni de bijoux. Ils peuvent s'emmêler dans les pièces mobiles. Des gants de caoutchouc et des chaussures antidérapantes sont recommandés pour les travaux à l'extérieur. Se couvrir les cheveux s'ils sont longs.
• **UTILISER DES LUNETTES DE SÉCURITÉ ET TOUT AUTRE ÉQUIPEMENT DE SÉCURITÉ.** Utilisez des lunettes de sécurité ou des lunettes à coques confortées aux normes en matière de sécurité et, le cas échéant, un protecteur facial. Utilisez également un masque facial ou anti-poussière si l'opération génère de la poussière. Ces directives s'appliquent à toutes les personnes dans la zone de travail. Utilisez aussi un casque de sécurité, des protecteurs auditifs, des gants, des chaussures de sécurité et des systèmes de dépoussiérage lorsque leur utilisation est prévue ou exigée. Des lunettes de sécurité et des accessoires similaires sont disponibles séparément chez votre détaillant ou dans un centre de réparation Black & Decker.

• **NE PAS UTILISER LE CORDON D'ALIMENTATION DE TROUS ABUSIVUE.** Ne jamais transporter l'appareil électrique par son cordon ou tirer sur ce dernier pour le débrancher du réceptacle. Tenir le cordon éloigné de la chaleur, de l'huile et des bords tranchants.

• **NE PAS TROP TENDRE LES BRAS.** Conserver son équilibre en tout temps.

• **DÉBRANCHER LES APPAREILS ÉLECTRIQUES.** Débrancher l'appareil électrique de la source d'alimentation lorsqu'il n'est pas utilisé, avant d'effectuer une réparation et avant de changer les accessoires tels que les lames, etc.

• **ÉVITER UN RISQUE DE DÉMARRAGE ACCIDENTEL.** Ne pas transporter l'appareil électrique branché alors que le doigt repose sur l'interrupteur. Assurez que l'interrupteur est à la position arrêt au moment de brancher l'outil.

• **UN REPOSSESSION ADEQUAT**

- Assurez-vous que le convertisseur continu-alternatif. Ne pas placer l'appareil près des sorties d'air chaud d'un véhicule ni d'un endroit où il est exposé aux rayons du soleil.

• **UN DISJONCTEUR DE FUSIÉS DE TERRA** doit être installé pour protéger les circuits ou les prises utilisées. Des prises avec disjoncteur de fuite de terre intégré sont aussi disponibles et peuvent être utilisées comme mesure de sécurité.

• **UTILISATION D'ACCESSOIRES ET DE PIÈCES DÉTACHÉES.** L'utilisation de tout accessoire ou pièce détachée non recommandé avec cet appareil électrique pourrait s'avérer dangereuse. Remarque : voir la rubrique Accessoires de ce mode d'emploi pour plus amples renseignements.

• **TESTER L'ISOLATION.** Surveiller votre travail. Faire preuve de jugement. Ne pas utiliser l'appareil en cas de fatigue.

• **VÉRIFIER LES PIÈCES ENDOMMAGÉES.** Si un dispositif de protection, ou toute autre pièce, est endommagé, il faut faire examiner soigneusement l'appareil, avant toute utilisation ultérieure, afin d'assurer un fonctionnement adéquat selon sa fonction prévue. Vérifier l'alignement des pièces mobiles, la présence de grippage des pièces mobiles et de rupture de pièces, l'assabonnage et tout autre problème pouvant nuire au fonctionnement de l'appareil. Un dispositif de protection endommagé, ou toute autre pièce endommagée, doit être réparé ou remplacé adéquatement par un centre de réparation autorisé à moins d'un avis contraire indiqué dans le présent mode d'emploi. Faire remplacer les interrupteurs défectueux dans un centre de réparation autorisé. Ne pas utiliser l'appareil si l'interrupteur ne fonctionne pas.

• **NE PAS UTILISER** d'outils électriques portatifs à proximité de liquides inflammables ou dans un milieu gazeux ou déflagrant. Les moteurs de ces outils produisent normalement des étincelles qui pourraient enflammer des vapeurs.

• **RALLONGES POUR UTILISATION EXTÉRIÈURE.** Si l'appareil est utilisé à l'extérieur, utiliser uniquement des rallonges prévues à cet effet et ainsi marquées.

	Calibre minimum pour une rallonge					
	Longueur totale de la rallonge en pieds (mètres)					
Tension	0-25 (0-7,6m)	26-50 (8-15,2m)	51-100 (15,2-30,4m)	101-150 (30,4-45,7m)		
240V	0-50 (0-15,2m)	51-100 (15,2-30,4m)	101-200 (30,4-60,9m)	201-300 (60,9-91,4m)		
Intensité nominale de	Plus ou Plus AWG					
0 à	6	18	16	14	14	
10 à	12	16	16	14	12	
12 à	16	14	12	Non recommandé		

• **RALLONGES.** S'assurer que la rallonge est en bon état. Lorsqu'une rallonge est utilisée, s'assurer d'utiliser un câble suffisamment élevé pour assurer le transport du courant nécessaire au fonctionnement de l'appareil. Une rallonge de calibre inférieure causera une chute de tension de ligne et donc une perte de puissance et une surchauffe. Le tableau ci-dessous indique le calibre autorisé à 145 volts de c.c. La seconde phase utilise un calibre nominal de la plaque signalétique. En cas de doute, utiliser le calibre supérieur suivant. Plus le numéro de calibre est petit, plus le cordon est de calibre élevé.

⚠ **AVERTISSEMENT :** ce produit ou son cordon d'alimentation contient du plomb, un élément chimique reconnu par l'État de la Californie.

⚠ **AVERTISSEMENT :** **POUR RÉDUIRE LE RISQUE DE CHOCS ÉLECTRIQUES :**

• Ne pas brancher à un

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