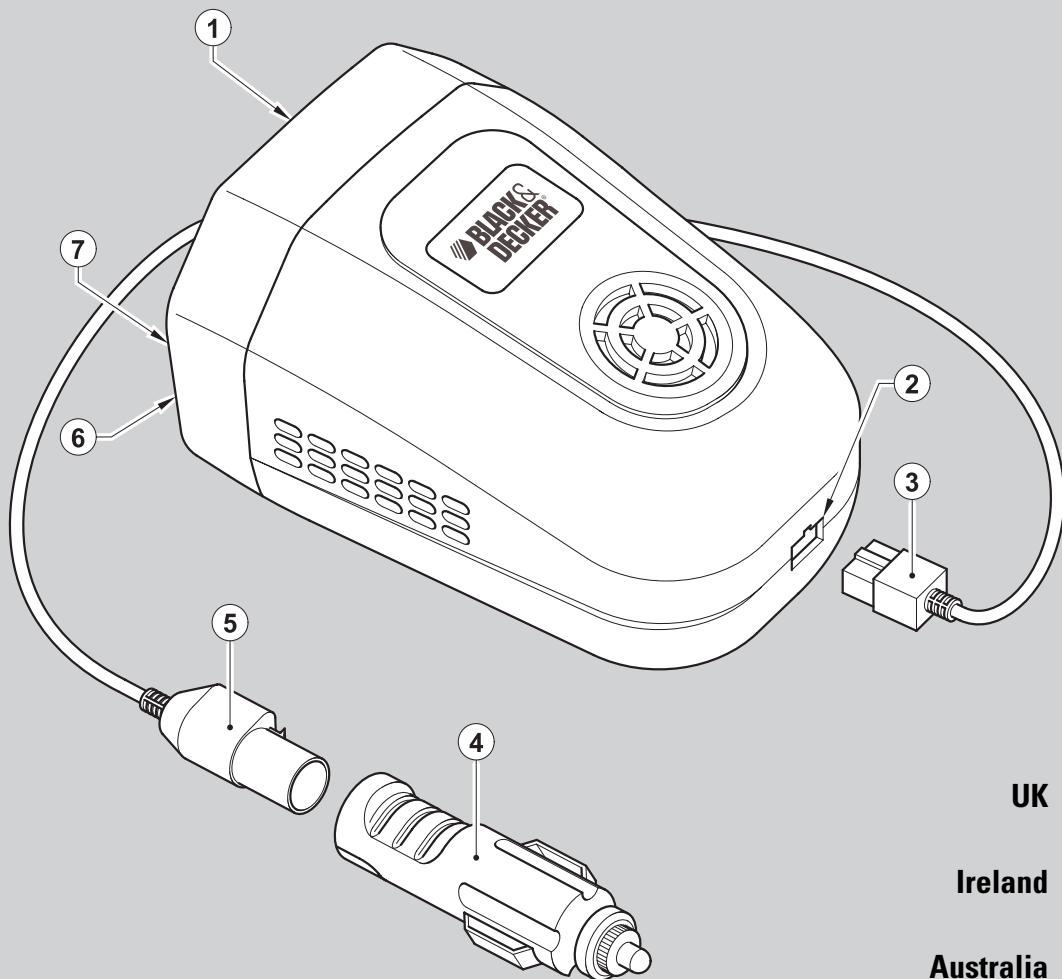


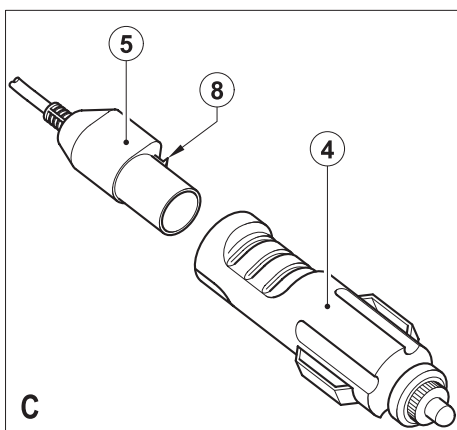
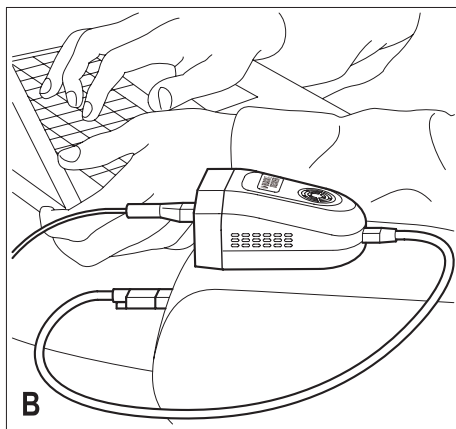
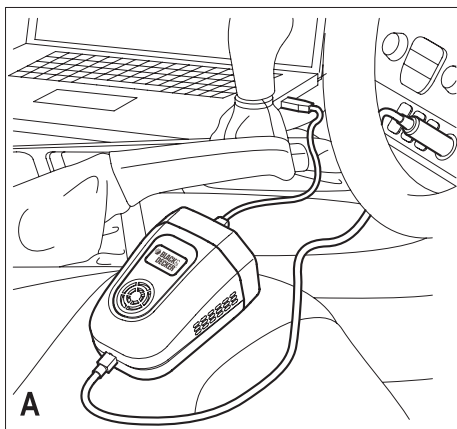


UK

Ireland

Australia

New Zealand



Intended use

Your Black & Decker power inverter is designed to convert direct current (dc) to alternating current (ac). It allows the 12 Vdc current in an automobile to supply ac power to operate equipment that is normally supplied from a mains power source. This product is intended for consumer use only.

Safety instructions

Warning! When using battery-powered appliances, basic safety precautions, including the following, should always be followed to reduce the risk of fire, electric shock, personal injury and material damage.

- ◆ Read all of this manual carefully before using the appliance.
- ◆ The intended use is described in this manual. The use of any accessory or attachment or the performance of any operation with this appliance other than those recommended in this instruction manual may present a risk of personal injury.
- ◆ Retain this manual for future reference.

Using your appliance

Always take care when using the appliance.

- ◆ This appliance is not intended for use by young or in firm persons without supervision.
- ◆ The appliance is not to be used as a toy.
- ◆ Use in a dry location only. Do not allow the appliance to become wet.
- ◆ Do not immerse the appliance in water.
- ◆ Do not open body casing. There are no user serviceable parts inside.
- ◆ Do not operate the appliance in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- ◆ To reduce the risk of damage to plugs and cords never pull the cable to remove the plug from a socket outlet.

After use

- ◆ When not in use, the appliance should be stored in a dry, well ventilated place out of the reach of children.
- ◆ Children should not have access to stored appliances.
- ◆ When the appliance is stored or transported in a vehicle it should be placed in the boot or restrained to prevent movement following sudden changes in speed or direction.
- ◆ The appliance should be protected from direct sunlight, heat and moisture.

Inspection and repairs

- ◆ Before use, check the appliance for damaged or defective parts. Check for breakage of parts, damage to

switches and any other conditions that may affect its operation.

- ◆ Do not use the appliance if any part is damaged or defective.
- ◆ Have any damaged or defective parts repaired or replaced by an authorised repair agent.
- ◆ Never attempt to remove or replace any parts other than those specified in this manual.

Specific safety instructions for power inverters

Warning! This appliance converts power from 12 Vdc battery to 230 Vac mains supply voltage. Take precautions, including the following, to avoid the risk of electric shock.

- ◆ Only connect a plug fitted to the supply cord of an appliance to the inverter.
- ◆ Never connect an appliance by modifying the plug or by using an adaptor.
- ◆ Never connect an appliance that is damaged or incomplete.
- ◆ Never connect the inverter to the mains supply or to the output of another inverter.
 - The inverter cannot convert the mains supply to a dc voltage.
 - The inverter cannot be used to supplement the mains supply.
- ◆ Disconnect the 12 Vdc accessory plug from the power source and remove the appliance plug from the inverter before performing any maintenance or before cleaning the appliance.
- ◆ Do not cover the inverter. Only use in well ventilated areas.
- ◆ Do not open the inverter, there are no serviceable parts inside. Do not probe the inverter.
- ◆ Check that connections to the dc supply are clean and secure. Loose connectors may cause overheated wires and melted insulation.
- ◆ Check to make sure you have not reversed the polarity.
- ◆ Do not install in engine compartments.
- ◆ Do not use the inverter to supply any medical devices.

Features

1. Mains socket
2. Power lead connection socket
3. Power connector
4. 12 Vdc accessory plug
5. Power lead/aircraft adaptor
6. LED indicator
7. USB port

How the power inverter works

The power inverter converts low voltage dc (direct current) from a battery or other power source to standard 230 Vac (alternating current) household power.

The power inverter output waveform

The ac output waveform of the power inverter is known as a "modified sine wave".

This type of waveform is suitable for most ac loads, including linear and switching power supplies used in electronic equipment, transformers and motors.

Operating instructions

Power source requirements

The power source must provide 12 Vdc and must be able to supply the necessary current to operate the load.

Warning! The power inverter must be connected only to batteries with a nominal output voltage of 12 Volts. The appliance will not operate from a 6 Volt battery and will sustain permanent damage if connected to a 24 Volt battery.

Connection to a power source.

The power inverter comes equipped with a 12 Vdc accessory plug (4) and a power lead/aircraft adapter (5) for connection to a dc power source.

Note: For optimal performance make sure that the engine is running while operating the inverter. However, the power inverter may not operate while the engine is starting because the battery voltage can drop substantially during cranking.

Connecting to a power source using the 12 Vdc accessory plug (fig. A)

The 12 Vdc accessory plug (4) is suitable for operating the power inverter at power outputs up to 100 Watts only. The tip of the plug is positive (+) and the side contact is negative (-).

Note: Connect the power lead supplied with the product into the socket at the back of the inverter.

- ◆ Connect the power connector (3) into the socket (2) at the back of the inverter.
- ◆ Connect the 12 Vdc accessory plug (4) to the aircraft adaptor (5) end of the power lead. Make sure that it is fully clicked in to place.

- ◆ Connect the power inverter to the power source by inserting the 12 Vdc accessory plug (4) firmly into the accessory outlet of a vehicle or other dc power source.

Note: On some vehicles the accessory socket may only become live when the ignition key is in the accessory position.

- ◆ Insert the mains plug from the appliance to be operated into the mains socket (1) on the inverter and operate as normal.

Warning! Do not use with positive ground electrical systems, (i.e older vehicles).

Warning! A reverse polarity connection will result in a blown fuse and may cause permanent damage to the power inverter.

- ◆ Once you have finished using the inverter make sure that you remove the 12 Vdc accessory plug (4) from the 12 Vdc source.
- ◆ To remove the 12 Vdc accessory plug (4) from the power lead/aircraft adapter (5) press the release tab (8) (fig. C) and pull to separate.

Warning! 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 guarantee.

Connecting to a power source using the power lead/aircraft adaptor (fig. B)

The inverter can be connected to an in-flight power outlet for use on board an aircraft.

- ◆ Make sure that the 12 Vdc accessory plug (4) is removed from the power lead/aircraft adapter (5) before proceeding.
- ◆ To remove the 12 Vdc accessory plug (4) from the power lead/aircraft adapter (5) press the release tab (8) (fig. C) and pull to separate.
- ◆ Connect the power connector (3) into the socket (2) at the back of the inverter.
- ◆ Connect the power lead/aircraft adapter (5) firmly into the in-flight power outlet.
- ◆ Insert the mains plug from the appliance to be operated into the mains socket (1) on the inverter and operate as normal.
- ◆ When you have finished using the inverter make sure that you remove the power lead/aircraft adapter (5) from the in-flight power outlet.

Your inverter will power/recharge small personal electronic items rated up to 100W:

- ◆ MP3 players
- ◆ Mobile phones
- ◆ PDAs

- ◆ Digital cameras and video cameras
- ◆ Laptops

Connecting devices to your inverter

AC devices

The power inverter is equipped with a standard mains socket (1). Plug the cord from the equipment you wish to operate into the mains socket (1). Make sure that the load requirement of your equipment does not exceed the rated wattage indicated on the unit.

Note: Some power supplies may not operate with this inverter due to the inrush currents required to start those devices. The inverter will shutdown in overload mode.

USB devices

The power inverter is equipped with a standard USB port (6).

- ◆ Plug the USB connector from the equipment you wish to operate into the USB port (6).

The power inverter is fitted with overload protection and will shutdown if a load in excess of the rated load is applied.

To restart the appliance after a shutdown due to overloading, remove the overload and reset by disconnecting from the dc power source and then reconnect.

Warning! This appliance will not operate high wattage appliances or equipment that produce heat, such as hair dryers, microwave ovens and toasters.

Protective features of the power inverter

Your appliance monitors the following potentially hazardous conditions:

- ◆ **Low voltage protection.** This condition is not harmful to the appliance but could damage the power source. The appliance will automatically shut down when the input voltage drops to 10.5 +/- 0.5 Vdc. When the conditions are corrected, disconnect from the dc power source and reconnect.
- ◆ **Over voltage protection.** The power inverter will automatically shutdown when the input voltage exceeds 16.75 Vdc +/- 0.25 V. When the conditions are corrected, disconnect from the dc power source and reconnect.
- ◆ **Short circuit protection.** A reverse polarity or short circuit condition may cause external or internal fuses to open and may cause irreversible damage to the appliance. Take extra care to insure a correct polarity connection.
- ◆ **Overload protection.** The power inverter will automatically shut down when the continuous load exceeds the rated wattage. When the overload is removed, reset the appliance by disconnecting from the dc power source and reconnecting.

- ◆ **Over temperature protection.** If the temperature inside the appliance is too high, the appliance will automatically shut down. Allow the appliance to cool for at least 15 minutes before restarting after a heat-related shutdown. Unplug the appliance while cooling.

Hints for optimum use

For best results, the appliance should be placed on a flat and/or solid surface. The appliance should only be used in locations that meet the following criteria:

- ◆ **DRY** - Do not allow water or other liquids to come into contact with the appliance.
- ◆ **COOL** - The surrounding air temperature should be between 4°C and 40°C (39°F and 105°F). Ideally between 15°C and 25°C (60°F and 80°F). Keep the appliance away from direct sunlight, when possible.
- ◆ **WELL VENTILATED** - Keep the area surrounding the appliance clear to ensure free air circulation.
- ◆ Do not place items on or over the appliance during operation. The appliance will shut down if the internal temperature gets too hot.
- ◆ **SAFE** - Do not use the appliance 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.

Warning! Rechargeable devices - Some rechargeable devices do not operate well from a modified sine wave inverter. They only operate correctly from a standard household outlet which provides a pure sine wave.

Therefore, the manufacturer recommends that you operate these type of devices from a standard household outlet only, not from the appliance.

This problem does not occur with the majority of battery operated equipment. Most of these devices use a separate charger or transformer that is plugged into an ac mains socket. The appliance is easily capable of running most chargers and transformers.

Troubleshooting

If the appliance is on but there is no ac output and the green power LED indicator (5) is not lit:

- ◆ Check that all the dc connections are connected correctly.
- ◆ Check the tightness of the dc connections.

If the appliance is on and the appliance does not function but the red power LED indicator (5) is lit, one of the following conditions has occurred:

- ◆ Low battery voltage
- ◆ Over voltage protection
- ◆ Short circuit

- ◆ Overload
- ◆ Over temperature

Reset the appliance by disconnecting from the dc power source and reconnecting.

Television interference

The power inverter is shielded to minimise interference with TV signals. However, in some instances, some interference may still be visible, particularly with weak TV signals.

Maintenance

Your Black & Decker tool has been designed to operate over a long period of time with a minimum of maintenance.

Continuous satisfactory operation depends upon proper care and regular cleaning.

Warning! Before performing any maintenance or cleaning on the appliance, unplug the appliance.

- ◆ From time to time wipe the appliance with a damp cloth. Do not use any abrasive or solvent-based cleaner. Do not immerse the appliance in water.

Replacing the fuse in the vehicle dc accessory plug

- ◆ Remove the cap by turning it counter clockwise.
- ◆ Remove the cap and centre pin.
- ◆ Remove the fuse.
- ◆ Fit a new fuse of the same type and size (10A).
- ◆ Refit the cap and centre pin.
- ◆ Tighten the cap by turning clockwise onto the plug.

Protecting the environment



Separate collection. This product must not be disposed of with normal household waste.

Should you find one day that your Black & Decker product needs replacement, or if it is of no further use to you, do not dispose of it with household waste. Make this product available for separate collection.



Separate collection of used products and packaging allows materials to be recycled and used again. Re-use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.

Local regulations may provide for separate collection of electrical products from the household, at municipal waste sites or by the retailer when you purchase a new product.

Black & Decker provides a facility for the collection and recycling of Black & Decker products once they have reached the end of their working life. To take advantage of this service please return your product to any authorised repair agent who will collect them on our behalf.

You can check the location of your nearest authorised repair agent by contacting your local Black & Decker office at the address indicated in this manual. Alternatively, a list of authorised Black & Decker repair agents and full details of our after-sales service and contacts are available on the Internet at: **www.2helpU.com**.

Technical data

BDPC100A	
Input voltage	Vdc 12
Output voltage	Vac 230
Input current	A 9
Power output	W 100
USB port	5 V, 500 mA
Weight	kg 0.4

EC declaration of conformity

BDPC100A Type 1

Black & Decker declares that these products conform to:
EN60950, 2006/95/EC

The undersigned is responsible for compilation of the technical file and makes this declaration on behalf of
Black & Decker

Kevin Hewitt

Director of Consumer Engineering
Spennymoor, County Durham, DL16 6JG,
United Kingdom
06-10-2008

Guarantee

Black & Decker is confident of the quality of its products and offers an outstanding guarantee. This guarantee statement is in addition to and in no way prejudices your statutory rights. The guarantee is valid within the territories of the Member States of the European Union and the European Free Trade Area.

If a Black & Decker product becomes defective due to faulty materials, workmanship or lack of conformity, within 24 months from the date of purchase, Black & Decker guarantees to replace defective parts, repair products subjected to fair wear and tear or replace such products to make sure of the minimum inconvenience to the customer unless:

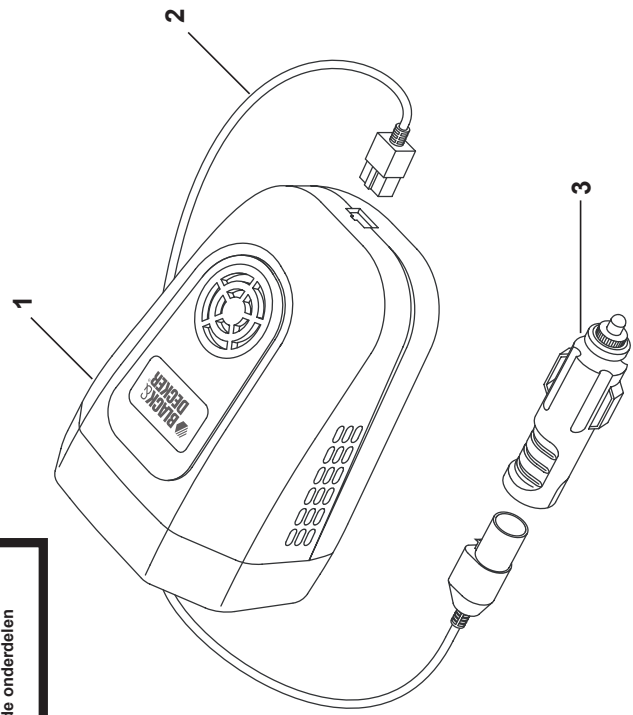
- ◆ The product has been used for trade, professional or hire purposes.
- ◆ The product has been subjected to misuse or neglect.
- ◆ The product has sustained damage through foreign objects, substances or accidents.

- ◆ Repairs have been attempted by persons other than authorised repair agents or Black & Decker service staff.

To claim on the guarantee, you will need to submit proof of purchase to the seller or an authorised repair agent. You can check the location of your nearest authorised repair agent by contacting your local Black & Decker office at the address indicated in this manual. Alternatively, a list of authorised Black & Decker repair agents and full details of our after-sales service and contacts are available on the Internet at: **www.2helpU.com**

Please visit our website **www.blackanddecker.co.uk** to register your new Black & Decker product and to be kept up to date on new products and special offers. Further information on the Black & Decker brand and our range of products is available at **www.blackanddecker.co.uk**.

Partial support - Only parts shown available
 Nur die aufgeführten Teile sind lieferbar
 Reparation partielle - Seules les pieces indiquees sont disponibles
 Supporto parziale - Sono disponibili soltanto le parti evidenziate
 Solo estan disponibles las piezas listadas
 So se encontram disponíveis as peças listadas
 Gedeeltelijke ondersteuning - alleen de getoonde onderdelen
 zijn beschikbaar



Australia

Black & Decker (Australia) Pty. Ltd.
20 Fletcher Road, Mooroolbark,
Victoria, 3138

Tel. 03-8720 5100
Fax 03-9727 5940

New Zealand

Black & Decker
5 Te Apunga Place
Mt Wellington
Auckland 1060

Tel. +64 9 259 1133
Fax +64 9 259 1122

United Kingdom

Black & Decker
210 Bath Road
Slough, Berkshire SL1 3YD

Tel. 01753 511234
Fax 01753 551155
Helpline 01753 574277