

THE TOOL COMPANY

12/24V SWITCHABLE POWER PACK

■ STOCK No.75549

■ PART No.PP12/24VA

• INSTRUCTIONS •

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS TOOL.



GENERAL INFORMATION

This manual has been compiled by Draper Tools and is an integrated part of the product with which it is enclosed and should be kept with it for future references.

This manual describes the purpose for which the product has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation or, before performing any kind of adjustment to the product and prior to any maintenance tasks. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product.

Whilst every effort has been made to ensure accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.



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THE TOOL COMPANY

DECLARATION OF CONFORMITY



SPECIFICATION

The Draper Tools policy of continuous improvement determines the right to change specification without notice.

Stock No.	75549
Part No.	PP12/24VA
Starting Current	12V 700AMP
	24V 400AMP
Peak Current	12V 1500AMP
	24V 900AMP
Battery	2 x 12V 20Ah Sealed lead acid
Worklight	3.6W



GUARANTEE

Draper Tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase.

Should the machine develop any fault, please return the complete tool to your nearest authorized warranty repair agent or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone: (023) 8026 6355.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.








Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the 12 month period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.

POWER SUPPLY

CONNECTING YOUR MACHINE TO THE POWER SUPPLY: (230V ONLY)

To eliminate the possibility of an electric shock your machine has been fitted with a BS approved, non rewirable moulded plug and cable which incorporates a fuse, the value of which is indicated on the pin face of the plug. If the plug is marked with the  symbol and the fuse needs replacing, an  approved BS1362 fuse must be used of the same amp rating. If the plug is not  marked, a fuse with the  symbol,  BS Kitemark, or both  and  BS Kitemark, of the same amp rating should be used.

The fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is the same colour as that visible on the pin face of the plug (i.e. red). Fuse covers are available from your Draper Tools stockist.

If the fitted plug is not suitable, it should be cut off and destroyed. *The end of the cable should now be suitably prepared and the correct type of plug fitted. See below.

*WARNING:

A plug with bare flexible wires exposed is hazardous if engaged in a live power socket outlet.

WARNING: THIS APPLIANCE IS DOUBLE INSULATED. (230V ONLY): ☐

The mains lead is coloured Blue – Neutral & Brown – Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black or blue.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red or brown.

EXTENSION LEAD CHART:

Extension lead sizes shown assure a voltage drop of not more than 5% at rated load of tool.

Ampere rating (on Name plate)	3	6	10	13
Extension cable length (Metres)	Wire Size mm ²			
7.5	0.75	0.75	1.0	1.25
15	0.75	0.75	1.0	1.5
22.5	0.75	0.75	1.0	1.5
30	0.75	0.75	1.25	1.5
45	0.75	0.75	1.5	2.5



GENERAL SAFETY INSTRUCTIONS FOR BATTERY PACKS

WARNING:

Please read the following instructions carefully, failure to do so could lead to serious personal injury. When using power tools, basic safety precautions, the following, should always be followed to reduce the risk of fire, electric shock and personal injury. Read all these instructions before operating this product and save these instructions.

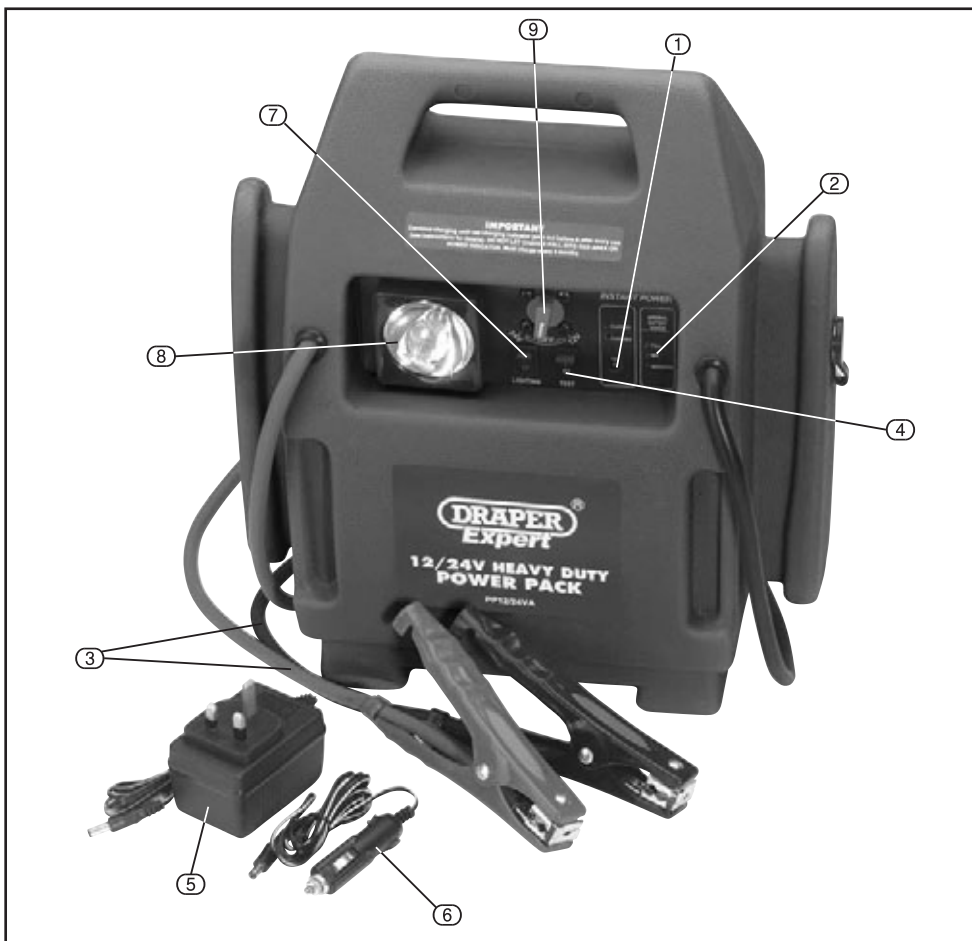
IMPORTANT:

Draper Tools Limited recommends that this machine should not be modified or used for any application other than that for which it was designed. If you are unsure of it's relative applications do not hesitate in contacting us in writing and we will advise you.

Working in the vicinity of a lead acid battery is dangerous, batteries generate explosive gases during normal battery operation. For this reason, it is of utmost importance, if you have any doubt, that each time before using the power pack, you read this manual and follow the instructions exactly.

1. When working near a lead-acid battery, someone should be within range of your voice, close enough to come to your aid.
2. Have plenty of fresh water and soap nearby in case battery acid comes in contact with skin, clothing or eyes.
3. Wear complete eye and clothing protection. Avoid touching eyes when working with batteries.
4. If battery acid does come in contact with skin, clothing wash immediately with soap and water. If acid enters the eyes immediately flood the eye with cool running water for at least 15 minutes and get medical attention immediately.
5. Never smoke or allow a spark or flame in the vicinity of battery or engine.
6. Be extra cautious to reduce risk of dropping a metal tool onto a battery. It could spark or short circuit the battery or, any other electrical part possibly causing an explosion.
7. When working with a lead-acid battery, remove personal metallic items such as rings, bracelets and watches. A lead-acid battery can produce a short-circuit current high enough to weld a ring, or the like to metal, which will cause severe burns.
8. Use this battery pack for charging or boosting lead-acid batteries only. Do not use for charging dry-cell batteries that are commonly used with home appliances. For example, radios, torches etc. These batteries may explode and cause injury to persons and damage to property.
9. Never charge or boost a frozen battery.
10. Never allow clamps to touch one another or to contact the same piece of metal to prevent arcing.
11. Do not recharge the power pack with a damaged charger. Replace immediately.
12. Do not submerge the unit in water.
13. Do not operate near flammables such as petrol, paraffin or thinners.

GETTING TO KNOW YOUR BATTERY PACK



- | | |
|-----------------------------|-----------------------------|
| ① 12 Volt Socket. | ⑥ 12V/DC Charger Cord. |
| ② L.E.D. Output Indicators. | ⑦ Light Switch. |
| ③ Booster Cables. | ⑧ Light. |
| ④ Test Switch. | ⑨ 12/24V Switchable Switch. |
| ⑤ 230V/AC Charging Adaptor. | |

UNPACKING: After removing the packing material, make sure the product is in perfect condition and that there are no visible damaged parts. If in doubt, do not use the Power Pack and contact the dealer from whom it was purchased. The packing materials (plastic bags, polystyrene etc.,) must be disposed of in an appropriate refuse collection container. These materials must not be left within the reach of children as they are potential sources of danger.

OPERATION AND USE

RECHARGING PROCEDURES:

NOTE:

We strongly recommend you charge the unit for 24 hours when first used. We recommend that the power unit is kept fully charged at all times.

Check the power level of the power pack with the test switch. The green L.E.D. will illuminate to indicate that the battery is full.

To recharge the battery via the plug-in mains charger, plug the power pack into the mains charger unit and let charge for up to 16 hours if completely discharged. Most recharges can take around 8 hours. Do not leave on charge for more than 72 hours.

To charge the battery with the in-car charger, ensure the switch is set to the 12 Volt setting, failure to do so will cause serious damage to your car, plug one end of the DC cable into the power packs charging socket and the other end into the vehicles light socket (the vehicles engine should be running). Charge for about 1 to 2 hours.

Once charging, the green light will come on.

OPERATION:

Always carry out the following checks before connecting the power pack to the battery.

ENSURE the vehicle ignition and ALL ancillary equipment i.e. lights, radio etc are switched OFF.

ENSURE the vehicle battery is rated at 12 or 24 volts and that the battery is not damaged in any way.

ENSURE the battery terminals are perfectly clean and the clamps are firm and perfectly secure.

REMOVE vehicle battery filler plugs and check electrolyte level. If necessary, top up with distilled water.

1. Ensure that the vehicles ignition is switched off.
2. Also ensure that the switch on the power pack is also switched OFF and select either 12 or 24 volts depending on the battery voltage.
3. Connect the positive (Red +) clamp to the positive terminal of the vehicles battery (Fig.1.).
4. Attach the negative (Black -) clamp to the engine block or frame of vehicle. Make sure that the cables are not in the path of moving parts or hot components. Also keep clamps away from any fuel lines (Fig.2.).
5. Switch the power switch on the power pack to the ON position,
6. Make sure that no-one is near the battery, then starting the car.
7. Once the vehicle has started, disconnect the negative (Black -) clamp first.
8. Then disconnect the positive (Red +) clamp.

NEVER ALLOW THE RED AND BLACK CLAMPS TO TOUCH EACH OTHER!!!



9. Replace the clamps into the storage areas.
10. Place the power pack on charge until full again.

NOTE:

Should the vehicle refuse to start within 6 seconds, do not persist. Let the power pack battery cool for three minutes before attempting to start the vehicle again. Should this recommendation not be followed, damage to the unit may occur.



MAINTENANCE AND PARTS REPLACEMENT

Always inspect the power pack fully before use, to ensure the cables are in good condition, and the clamps are clean and free from corrosion. Have them replaced if any damage is apparent.

Keep clean by wiping with a dry cloth. DO NOT use solvents as this can seriously damage this product.

BATTERY REPLACEMENT

1. Unscrew all the screws that hold on the back panel.
2. Lift off the cover plate to expose the battery compartment.
3. Lift out the battery from the battery compartment, detaching the heavy duty and all other cables from the battery terminals.
4. Taking great care not to short across the battery terminals, connect the positive (RED +) Heavy duty cable and other cables with red sheath, to the battery indicated with the red panel and the + markings.
5. Connect the black heavy duty cables to the other battery terminal.
6. Gently slide the new battery, back into position in it's compartment. Again taking care not to short across on any components inside the battery power pack.
7. Replace the back cover and secure with all the screws.

CHANGING THE LIGHT BULB:

1. Gently squeeze the sides of the lens bezel together to disengage the clips at either side and pull the lens and bezel out.
2. Unscrew and remove the bulb and screw in the replacement.
3. Push the lens and bezel back into place.



TROUBLE SHOOTING

- PROBLEM:** One or two charge indicator lights come on, I plug in the charger for 24 hours and there is no change in status of lights.
- SOLUTION:** Check charger to see if it is charging. Charger should be warm. Some chargers have a fuse at the plugs tip. Check fuse by unscrewing the tip of the plug. Replace if necessary.
- PROBLEM:** Charger works well but still no change in status of charge indicator lights.
- SOLUTION:** Possible defective battery or faulty breaker. Try using a device (such as a light) with a lighter plug on it to see if it works. Should it work, power pack breaker is OK and the battery is the problem.
- PROBLEM:** No charger indicator lights come, but when the wall charger is plugged into the power pack, the lights come on.
- SOLUTION:** The internal battery of the power pack needs to be replaced.
- PROBLEM:** Power pack is fully charged but has no power.
- SOLUTION:** Check where the wire meets the jaw on the booster clip. Make sure they are well crimped.
- PROBLEM:** When trying to use an accessory through the cigarette lighter outlet on the power pack, clicking is heard from inside the power pack.
- SOLUTION:** The accessory is drawing more than 12 amps, causing the internal circuit breaker to cycle ON and OFF. There may be a problem with the accessory (such as a short circuit) that is causing the overload condition. Check accessory before continuing.



QUESTIONS AND ANSWERS

- QUESTION:** How many jump starts can a fully charged power pack do before needing to be recharged?
- ANSWER:** 0 to 30. Factors are temperature, general condition of vehicle, engine type and size.
- QUESTION:** Can the power pack's battery be replaced?
- ANSWER:** Yes. NOTE: The battery is a consumable item and is not covered by the warranty.
- QUESTION:** Can the power pack be recycled?
- ANSWER:** Yes, the environment was one of our main concerns in the development and designing of the power pack. Most battery outlets can dispose of this product at its life's end.
- QUESTION:** What is the ideal in-use storage temperature of the power pack?
- ANSWER:** Room temperature. The power pack will also operate at temperatures below zero, however, its power will be lessened. Intense heat will activate self-discharge. **Power pack must be recharged before initial use.**
- QUESTION:** I have a regular battery charger, can I use it to recharge the power pack?
- ANSWER:** No, only the plug-in wall charger or the in-car charging lead should be used.
- QUESTION:** Is the power pack idiot-proof?
- ANSWER:** No. Jump starting and other instructions must be followed.



NOTES



NOTES



THE TOOL COMPANY

DRAPER TOOLS LIMITED,

Hursley Road, Chandler's Ford, Eastleigh, Hants. SO53 1YF. U.K.

Helpline: (023) 8049 4344.

Sales Desk: (023) 8049 4333.

General Enquiries: (023) 8026 6355.

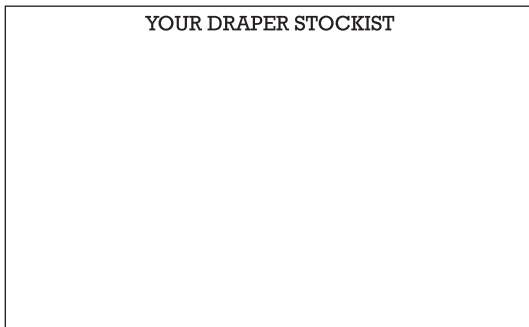
Fax: (023) 8026 0784.



<http://www.draper.co.uk>

e-mail: sales@drapertools.com

YOUR DRAPER STOCKIST



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