



THE PONDMASTERS GUIDE TO POWERSAFE ARMoured GARDEN POWER SUPPLY KIT

5m 10m 15m 20m

Congratulations on purchasing a Blagdon Powersafe Armoured Garden Power Supply Kit. This kit has been designed as a safe, simple and easy way to install power in the garden. This kit and the detailed easy to follow step by step guide, using the products provided, has been designed to fully comply with IEE wiring regulations.

THIS BOX CONTAINS THE FOLLOWING PARTS



Powersafe Watergarden
Circuit Breaker



Masonry SDS drill bit
& Wood drill bit



Weatherproof
sealing putty



5m of rubber cable
pre-wired to socket



Electrical
Screw driver



Three pin plug



Rubber cable clips
& Nails x5



Plug and socket adapter
brackets x2



Adapter bracket screws
and wall plugs x6



Pre wired plug
connected to
5m/10m/15m or 20m
of armoured cable
connected to pre wired
socket



5m/10m/15m or 20m
of armoured cable
buried warning tape



Armoured cable cleats,
screws and wall plugs x
5 in 5m/10m kits - x 10
in 15m/20m kits



Pre wired plug
connected to 50cm of
rubber cable connected
to pre wired Powersafe
triple outlet switch box



Switchbox mounting
plate, screws and wall
plugs x 4

Switch box spare 5 amp fuse x 1
Switch box spare 1.5 amp fuse x 1

TOOLS REQUIRED FOR INSTALLATION

ELECTRICAL DRILL, CROSS HEADED SCREWDRIVER, DIY CABLE METER DETECTOR (GAS PIPES / WATER PIPES / ELECTRICAL CABLES), TAPE MEASURE, PENCIL AND HAMMER.

IMPORTANT

This system is designed to be plugged into a standard mains socket using the three pin plug, rubber cable and plug in circuit breaker provided. If these products are wired directly into the mains circuit using a fixed wiring spur instead of using the standard three pin plug and cable supplied, the installation must be carried out by a competent electrician who is registered under the part P self – certification scheme, or you must notify the local building control department before work begins. Please note all electrical work must comply with part P of the building regulations. Failure to comply is a criminal offence. For further information and guidance on this matter and other electrical installations in your home that might be covered by the relevant legislation, contact your local authorities building control department.

Please attach proof of purchase to this manual and file in a safe place

A) PREPARATION

Before committing to fixing any of the system please follow the complete marking out process. This preparation is to prevent unnecessary time-consuming errors.

STEP 1 - MARKING OUT

DECIDE THE LOCATION OF THE MAINS SOCKET TO BE USED

The rubber cable supplied is 5m long. Take the rubber cable and measure it out from a suitable mains power

socket (house or garage) checking that there is sufficient rubber cable to be fixed along the required route.

Allow for the cable to be passed through either the wall or door/window frame allowing the fixing bracket to be attached to a suitable external point 30cm minimum above ground level. Mark the location by pencilling around the first adapter bracket. The rubber section of the cable should be run for the minimum distance possible outdoors.

If the 5m of internal rubber cable is insufficient in length it may be replaced with a longer length of HO5RN 3 X 1.0MM CORE RUBBER CABLE (see plug and socket system on the back cover).

STEP 2

DECIDE ROUTE OF THE ARMoured CABLE

Take the armoured cable plug and connect it to the rubber cable socket.

From the area pencilled to mark the location of the adapter bracket, measure out the route of the armoured cable.

The armoured cable may be routed above ground, along fences or walls using the armoured cable cleats provided, hidden through trees and shrubs or buried below ground at a minimum depth of 500mm (below a spade's depth).

Remember to subtract 1000mm from the total length if the cable is buried at any point.

B) INSTALLATION

Now that the system has been marked out correctly installation can commence.

STEP 1

DRILLING THE WALL OR DOOR/WINDOW FRAME

The Powersafe complete kit comes with 30cm SDS masonry and 15cm wood drill bit and weatherproof sealing putty.

Check the wall with a good quality cable meter detector to ensure that there are no pipes, cables or other services in the location to be drilled.

WALL OPTION

Start drilling with the masonry bit from the outside in.

DOOR/WINDOW FRAME OPTION

Always start the hole centrally in the frame to prevent splitting. Start drilling from the outside in, when the wood drill bit starts to emerge, drill from the inside out.

ROUTING THE RUBBER CABLE

Pass the 5m of rubber cable from the outside in through the hole in the wall or door/window frame ensuring that there is sufficient to reach the mains socket. If the 5m of internal rubber cable is insufficient in length it may be replaced with a longer length of HO5RN 3 X 1.0MM RUBBER CABLE (see plug and socket system, on back cover).

ATTACH THE FIRST BRACKET

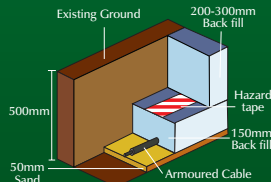
Attach the bracket at the point indicated by the pencil line made when marking out. Three screws and 6mm wall plugs have been provided.

If this bracket is to be attached to a wall, 6mm holes will need to be pre-drilled with a masonry drill bit so that the wall plugs can be inserted before the bracket is attached.

ROUTE/BURY THE CABLE

If the cable is to be routed above ground as decided in the marking out phase, it can now be attached to fences and posts where needed using the armoured cable cleats, screws and wall plugs.

If the cable is to be buried, please follow the installation diagram, ensuring that the cable warning tape is placed along the full length of the route, after the cable has been backfilled to 15cm depth first.



ATTACH THE SECOND BRACKET

The second bracket may now be attached at the fixing point pencilled out in the marking out phase as per bracket 1.

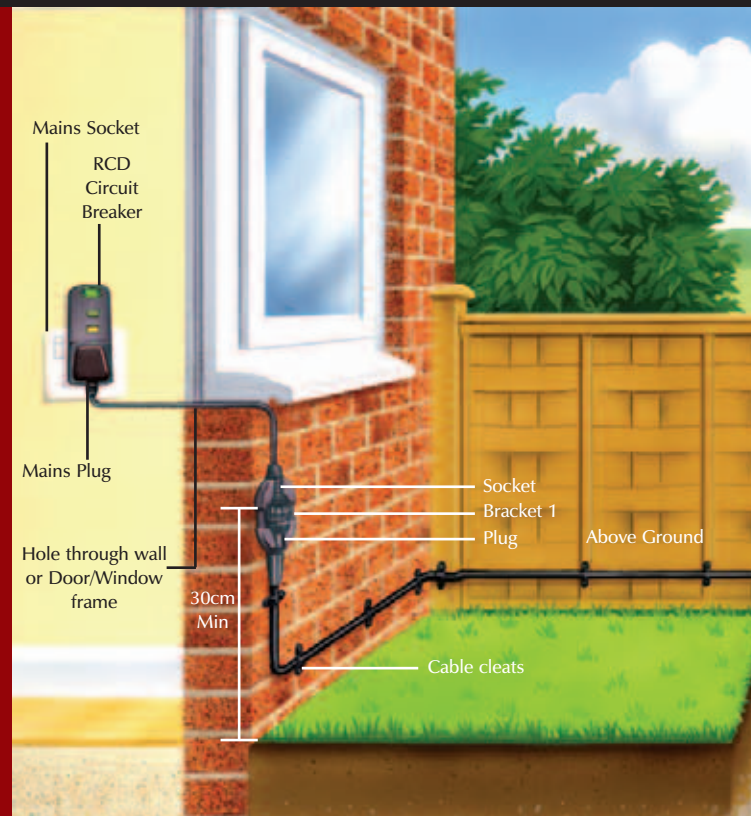
WARNING: In order to prevent accidental connection to the mains whilst the installation is in progress, wire the three pin plug to the rubber cable last.

Do not connect the Power supply to the mains until the full installation is finished.

Ensure that the plug and sockets adapters are securely locked and that the switchbox cover is on and secured before testing the system.

Always switch off and disconnect the plug from the mains when ether further work is carried out on the power supply or switchbox.

The plug in circuit breaker must always be used to ensure safety.



STEP 2

CONNECT THE ARMoured CABLE TO THE SWITCHBOX

Connect the armoured cable socket to the 50cm rubber cable plug and firmly push into the fixing bracket, as shown below.

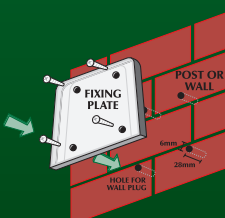


MOUNTING THE POWERSAFE SWITCH BOX

The Switchbox must be mounted a minimum of 30cm above the ground on a post, wall or fence.

Slide out the fixing plate from the body of the switchbox and mount with the four screws and wall plugs, if required.

Allow a minimum of 10cm of slack in the rubber cable so that it may be attached and removed easily from the fixing plate. Slide the Switchbox onto its fixing plate.



WARNING: Ensure that the mains power supply is always off and disconnected before removing the switchbox cover.

CONNECTING ELECTRICAL APPLIANCES TO THE POWERSAFE THREE SWITCHBOX

This is the correct point in the process to wire in the electrical appliances you wish to control with the Switchbox.

Please follow the full instructions for the 3 outlet Switchbox (*The pond master guide to Powersafe 2/3/4/5 outlet switchboxes*) that is provided within this kit.

WIRING THE THREE PIN MAINS PLUG

The three pin mains plug can now be attached to the 5m of rubber cable following the card wiring diagram attached.

STEP 3

WATERGARDEN CIRCUIT BREAKER

Plug in the Watergarden Circuit Breaker following the instructions for use below fully.

An RCD is a legal requirement for outdoor power supplies.



Mark the location that the armoured cable is to finish by pencilling around the second adapter bracket on a suitable hard point or post, a minimum of 30cm above ground.

If there is excess armoured cable this can be buried, or in above ground installations, looping the excess at an inconspicuous point to absorb the slack.

The armoured cable section has been permanently pre-wired at the set length dictated at purchase (5/10/15/20m).

If the kit purchased is insufficient in length additional armoured cable sections are available in the Powersafe Armoured Power Supply (5/10/15/20m).

These can be used to extend your existing system.

WARNING: The plug and socket system is rated to IP56 outdoor use only, the plug and socket system is not designed for submersion in water. The plug and socket connections must not be buried due to the potential danger of flooding and groundwater.

The Powersafe armoured cable system can be safely extended to a maximum length of 40m of armoured cable.

STEP 3

LOCATION OF TRIPLE OUTLET SWITCHBOX

Take the plug attached to the 50cm of rubber cable and Powersafe triple outlet Switchbox and attach

it to the socket at the end of the armoured cable.

Allow 10cm of slack from the adapter bracket position to the Switchbox so that it can be easily removed from its fixing plate.

Pencil around the fixing plate to mark its location. This is the maximum distance that the Switchbox can be located from the mains power socket.

The Switchbox should be situated where it is protected from:

- Flooding
- Extreme heat
- Physical damage
- Tampering by adults, pets and children

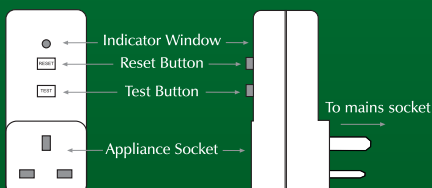


WARNING: The Watergarden circuit breaker must be used at all times.

USING YOUR POWERSAFE RCD

ONE

Insert your RCD in a fixed wall mounted 13 amp mains supply socket. Switch on power at socket.



The indicator within the indicator window will show black, power off.

TWO

Depress the green reset button fully.

The indicator within the indicator window will show red, power on.

WARNING: If the red indicator does not show when the unit is reset and the mains is turned on, DO NOT USE. Please return the unit to the point of purchase with a till receipt.

THREE - TESTING

Depress the test button when the red power on indicator is shown. The indicator will immediately turn to black, power off. Your Powersafe RCD has been successfully tested and is ready for use.

WARNING: If the red indicator does not turn to black, power off, immediately when the test button is depressed DO NOT USE. Please return the unit to the point of purchase with a till receipt.

FOUR

Plug the power supply three pin plug into the socket on the front of the RCD. Depress the reset button fully. The indicator within the indicator window will turn red, power on. The RCD is ready for use.

FAULT PROTECTION

The Powersafe RCD will trip immediately if an earth leakage is detected. The black, power off indicator will appear within the indicator window. Unplug the appliance from the socket and have it checked by a qualified electrician for an earth leakage fault.

RESETTING

Repeat the test procedure from step one to make the unit ready for use.

IMPORTANT

If the RCD is disconnected from the power supply it will automatically turn off, indicator black power off.

Repeat the test procedure from step one to reset the unit ready for use

WARNING: Electricity is dangerous, an RCD should not be used as a substitute for safe electrical practice. Do not allow children to tamper with electrical devices.

Should your RCD trip repeatedly when an appliance is connected or fail to trip when tested, seek consultation from a qualified electrician.

Care should be taken not to subject your Powersafe RCD adapter to abnormal pollutants, smoke, chemicals, flammable fumes, salt spray, high humidity, immersion or repeated physical damage.

STEP 4

FINISHING OFF

The rubber cable may be attached to skirting boards with the grips and nails provided. Weatherproof sealing putty is provided to push into and around the cable exit to prevent the ingress of water.

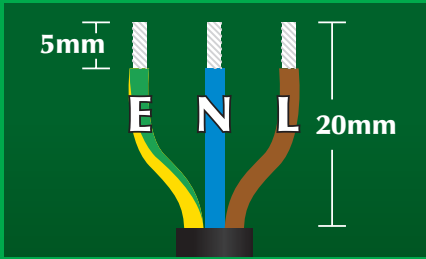
Your Powersafe Armoured Garden Power Supply Kit is now fully installed and ready for operation.

EXTENDING THE RUBBER CABLE

IMPORTANT

It is essential that the assembly instructions are followed fully to ensure that the product is both weatherproof and safe to use.

CABLE PROTECTION

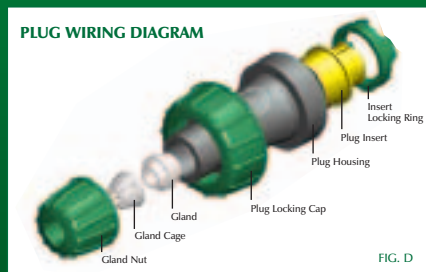
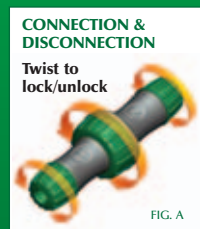


IMPORTANT

Switch off the power supply and ensure that all parts are clean and dry before fitting.

The Plug has been designed to work with circular smooth sheathed cables only. The cable glands supplied allow fitting of cables between 4mm - 9mm diameter. Use the smallest suitable gland size.

Total maximum capacity: 2200 Watts



Always wire the socket to the mains supply. Always wire the plug to the appliance to be fitted.

1. Remove the green cable gland and thread it over the prepared cable.
2. Remove the Gland cage and thread it over the cable curved face first.
3. Remove the green gland and thread this over the cable curved face first.

Important: Use the smallest suitable gland size provided to suit the cable being fitted.

The cable gland should be fitted with the cone end facing into the socket housing.

4. Remove the green threaded insert locking ring with the insert locking ring tool / plug cap and place to one side in a safe place.

5. The yellow plug insert is now free to be removed.

6. Thread the prepared cable which has the Gland/Gland cage/Gland nut already threaded onto it through the grey plug housing fully to allow easy wiring of the plug insert.

7. The insert should be wired according to the following: (See Fig.B)

Yellow/green (E) symbol earth cable inserted into (E) symbol cable block and secure firmly with cable block screw

Blue (N) Neutral cable inserted into (N) cable block and secure firmly with cable block screw

Brown (L) Live cable inserted into (L) cable block and secure firmly with cable block screw

8. Insert the yellow plug insert into the grey plug housing fully insuring that the plug is aligned and seated into position. (Note: use locating slot provided for correct location)

9. Replace the green insert locking ring fully using the socket cap tool.

10. Push the gland along the cable fully into the plug housing.

11. Push the gland cage along the cable fully onto the gland.

12. Thread the green gland nut fully onto the grey plug housing insuring that it is firmly screwed together.

Your Plug is now ready for use.

FAULTS - PROBLEMS PROCEDURE

Before returning your Power Supply to your dealer or contacting our Consumer Advice Department, please carry out the following steps. This will solve most problems quickly and easily.

1. Ensure electrical procedures have been followed fully. Check fuses and cable connectors. Check mains fuse and mains RCD.
2. Return Power Supply to the point of purchase for inspection and advice (you will need proof of purchase).

CONSUMER ADVICE CONTACT DETAILS

Interpet (Blagdon) Consumer Advice Department
Vincent Lane, Dorking, Surrey RH4 3YX
Telephone: 0845 226 7437
(Monday to Friday 10am to 4pm except Bank Holidays - Times may vary)
Fax: 01306 876712
E-mail: customercare@interpet.co.uk
Web: www.blagdonthepondmasters.co.uk

POWERSAFE PLUG AND SOCKET SYSTEM

To take full advantage of flexible safe outdoor power Blagdon Powersafe provides a range of weatherproof plug and socket adapters to allow the use of interchangeable electrical appliances in conjunction with your three outlet Switchbox.

PLEASE ASK YOUR RETAILER FOR FULL DETAILS

Powersafe plug and socket code 1040198

Powersafe plug twin pack code 1050081

