

POWAPACS®

Power Your Adventure

2022 PRODUCT BROCHURE



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INTRODUCTION

As a keen carp fisherman spending time away from available power sources, I identified the need for a portable power solution to meet the demands of outdoor enthusiasts and so Powapacs was born. Over the last few years the company has developed rapidly to become a market leader for portable power. Using extensive research and development over many years our flagship product, the Atom, continues to be the basis of our success.

The theme of supporting those who need power to enable their outdoor pursuits has resulted in the development of a range of

Powapacs accessories that are cleverly designed to provide the comfort factor for anyone pursuing their outdoor pastimes, sports and professions. Our products have so far been a great success with fishermen, metal detectorists, drone pilots, campers and many others who need power when they are away from mains grid power.

Our mission is to build and develop the best products in our market whilst supporting the green agenda. We are passionate about improving people's lifestyle and supporting the world's transition to readily available and sustainable energy.



Chris Nicholls, Managing Director

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WHY LITHIUM PORTABLE POWER STATION?

Batteries referred to as rechargeable deep cycle batteries are used in most solar power systems setups. However, the new Lithium battery is becoming the battery of choice for many reasons, which is why we have a bias towards Lithium battery power stations.

LIGHTER WEIGHT.

When it comes to weight, the Lithium battery wins hands down. It is typically half to one third lighter than the original lead acid battery weight (for an equivalent run time/capacity lead acid battery bank).

HIGHER ELECTRICAL EFFICIENCY.

The Lithium battery has a much higher electrical efficiency compared with lead acid batteries. LiFeTech lithium batteries are typically 98% charge efficient compared to between 70% and 85% with the lead acid batteries. They also have significantly faster charging times than lead acid batteries.

This means that the Lithium battery will charge more efficiently and more quickly than a lead acid battery which can be particularly important in situations with limited charging methods available, such as from solar panels.

Camper van owners have reported that their LiFePO4 batteries are fully charged from solar panels by midday compared to 4 to 5pm using their old lead acid batteries.

LONGER WORKING LIFE.

While good quality Lithium batteries such as C&C Power Supply batteries are far more expensive to buy and set up initially, the actual cost of ownership is considerably cheaper than lead acid batteries (calculated in terms of pence per charge cycle).

CONSTANT VOLTAGE.

In a lead acid battery, voltage will continue to drop over time as the internal circuit within the battery will self-discharge. This forces the connected electrical device to eventually shut down at its minimum operating voltage. In the Lithium battery, however, voltage tends not to drop under load until the battery is almost depleted. For example, an ignition coil in a motor vehicle will have a consistent spark due to the battery's ability to deliver a consistent voltage. Therefore, electrical equipment tends to run more efficiently as they are receiving constant voltage. Ultimately, using Lithium batteries gives electronic equipment a longer working life before failure than the lead acid battery option.

FASTER RECHARGE.

Expect to spend much less time recharging Lithium batteries than lead acid batteries.

ECO-FRIENDLY.

Lithium batteries are the safest batteries for consumers and the environment. Internally, they do not contain corrosive sulphuric acid or any toxic heavy metals such as lead or cadmium which can be environmentally harmful if leaked.

LITHIUM ION (NMC) VS LIFE PO4.

While a single cell LiFe PO4 has a 20-30% longer life cycle than Lithium ion (NMC), Powapacs have chosen Lithium ion batteries for our portable power stations because:

LiFe PO4 has lower energy density than Lithium ion (NMC), so it is 30% heavier and 40% bigger which is not ideal for portability. In fact, when the batteries are packed together, the life cycle of LiFe PO4 and Lithium ion (NMC) battery packs are about the same.

With lower power density, the LiFe PO4 is a cheaper battery but is more suitable for big, heavy, stationary generators and not suited to portable products. Therefore you won't see LiFe PO4 batteries used in Tesla cars, or in our current line of Powapacs products.



ATOM PRO

The Atom Pro is the second generation of portable power stations from Powapacs. The integrated Lithium-Ion battery makes the Atom Pro a compact power station weighing just 2kg, allowing almost all electrical devices up to 150 watts to be run from it. With a battery capacity of 312 Wh and a range of 6 outputs, the Atom Pro is suitable for charging smartphones, tablets, laptops, drones, lighting and other equipment. It is the “must have” mobile power solution for your holiday at the campsite, the fishing lake or during a survival holiday.

The Atom Pro has a real-time display showing the battery level, input and output modes. It is equipped with USB, USB-C PD, DC and AC outputs.



EXAMPLE RUN TIMES/CHARGES (HOURS)

Smart Phone	Approx. 30
20Wh TV	Approx. 15.6
30Wh Mini Fridge	Approx. 10
Mini Drone	Approx. 5

- Atom Pro can be charged three different ways: mains supply, solar panel or via a 12-24V car adaptor
- High efficiency silent, pure sine wave inverter, 150W constant 200W peak power rating
- Overload/voltage/temperature protection
- Short circuit/low voltage protection
- Digital User Information Display and Integrated LED torch
- 78,000mAh 312Wh. 26Ah @12v
- Battery - High discharging rated 18650 lithium battery
- Capacity - 78,000mAh 312Wh
- Dimensions - 240mm x 165mm x 65mm
- Weight - 2.1kg
- Carry case included



CODE	DESCRIPTION	WEIGHT (g)	RRP (incl. VAT)
PP015	Atom Pro	3990	£299.99

FUSION

Introducing the new Powapacs Fusion, a powerful, highly advanced portable Powapac that delivers AC and DC for more demanding applications. An exceptionally high quality and robust design, Fusion is packaged in a lightweight and ruggedised aluminium alloy body making this Powapac extremely versatile and comes complete with A/C wall charger, Vehicle type cigarette charger cable, Solar MC4 and DC5521 charger cables. Using the latest high energy density lithium battery technology, the Fusion provides a huge 560 watt- hours of electricity using its two A/C sockets rated at 1000W peak. It also provides a 12V regulated 10A car DC output socket, 4 x USB ports two of which are QC3, and new Type C port to power and charge laptops and smart phones requiring this protocol. The Fusion has a highly advanced user display allowing clear visibility of time remaining, wattage output and battery status.



Intelligent power management display

Type C output

Car 12v DC output

2 x QC3 Quick charge USBs

4 x 12v Dc outputs



- Output power: 500W Peak 1000W pure sine wave inverter
- Output voltage: AC 220V with the option of selecting 50Hz or 60Hz
- 4 x DC 12.8V/4A Regulated
- DC12V Cigarette Port: 12V/10A Regulated
- 2 x standard USB A 5V 2.4A;
- 2 x USB QC3 5V/2.4A, 9V/2A
- 1 x Type C port: 5V/2.4A, 9V/2A, 12V/1.5A
- Input: PWM DC 5-24V/5A 120W max
- Battery Capacity: 12.8V 40.5Ah 599Wh 162,000mAh
- Battery Type: Li-Ion
- Working temperature: -10°C to 60°C.
- Size: 249 x 223 x 173mm
- Net Weight: 5.4KG
- Battery life in excess of 2000 cycles



CODE	DESCRIPTION	WEIGHT (g)	RRP (incl. VAT)
PP016	Fusion	540	£699.99

ION

Compact, lightweight and powerful, the new and exclusive all-in-one Li-Po Powapacs ION delivers AC and DC power wherever and whenever you need it. Coupled with its own 12w solar panel ION is a perfect off-grid package, ideal for those short trips away when space is at a premium.

- 24000mAH 84Wh high capacity lithium batteries
- 1 universal 230v AC socket output for universal standard plugs
- Peak 95W, continuous 65W
- LED light indicator, AC power on, power indicator and error warning
- 1 x QC 3.0 USB output
- 1 x 12v DC input
- Powers off automatically after 30 seconds without load connection
- Input: 12v -24v DC mains and solar
- Complete with a 21W Solar panel and carry case

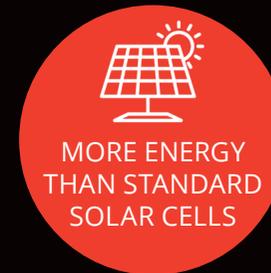


EXAMPLE RUN TIMES/CHARGES (HOURS)	
Smart Phone	Approx. 15
20Wh TV	Approx. 5
Laptop	Approx. 3
Nintendo Switch	Approx. 5

60W SOLAR PANEL

The Powapacs folding solar panel is equipped with SunPower solar cells with an efficiency of over 23.5%. This energy can be used to charge a number of devices via the integrated USB port or by using the crocodile clips provided. In addition to the USB outputs, the Powapacs Solar Panel has a 15v DC output allowing it to be combined with the Powapac Atom to offer a versatile, convenient and portable off-grid system that provides power anytime, anywhere.

- High efficiency >23.5%
- Compact design
- 2.1mm DC cable for remote charging
- Lightweight 996 grams
- Solar panel type SunPower (Monocrystalline)
- Output 1 x USB - 5v / 2100 mA
- Output DC - 15v / 3,170M mA
- Waterproof PVC600D
- Folded size is 30.5 x 17 x 3.5cm
- Folded out size is 30.5 x 121 x 0.3cm



CODE	DESCRIPTION	WEIGHT (g)	RRP (incl. VAT)
PP010	Ion (incl Solar Panel)	1653	£199.99
PP004	Solar Panel 60w	1731	£199.99

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POWASHOWA

Lightweight, portable power shower which can hold up to 15L of water. Ideal for many washing applications, especially where a mains power or water supply is not available, such as car shows, track days, camping or even garden use. Features "Automatic Total Stop System" (TSS) which switches the motor on and off when the water is operated, prolonging motor life. Unit is powered using an internal rechargeable lithium battery or 3m cable fitted with a 12V vehicle accessory socket plug.

- Model No PP020
- Capacity: 4 Gallon
- Hose Length: 1.2m
- Maximum Pressure: 6kg/cm²
- Motor Power: 40W
- Nett Weight: 3.1kg
- Supply: 12V and 1.3Ah Lithium Battery
- Water Flow Rate: 180L/hr



CODE	DESCRIPTION	WEIGHT (g)	RRP (incl. VAT)
PP020	Powashowa	3600	£179.99



POWACOOLA

The Powapacs Powacoola fridge range work exactly like your home refrigerator by using a compressor to control the temperature. The fridges are perfect for outdoor pursuits in car, truck, RV, caravans, boat, motor homes in challenging environments while providing powerful, high quality performance even in the harshest or warmest of conditions. The Powacoola fridge freezer boxes also feature reduced energy consumption thanks to the extra strong insulation and specially designed compressor. They are ideal for camping, travel, going on holiday, or spending time with family outdoors, keeping drinks and food cold. The PowaCoolas are truly portable so you can take your fridge / freezer anywhere! The Powacoola's from Powapacs are powered by a

LG compressor with detachable lithium battery. The Powacoola's can also be used with mains AC power or solar giving you the user a range of power options. The removable lithium battery is capable of powering the fridge and freezer keeping your food and beverages cold or frozen.

All Powacoola's are constructed with the outdoors in mind, robust and rugged with oversize wheels and a telescopic handle on 35 and 55 litre models means manoeuvrability is no problem. A large LCD display with performance readouts including temp, battery status and power are all at your finger tips along with a USB output to charge phones on the go...

- Detachable lithium battery
- LCD touch control panel
- Built in USB charging port
- Freezes without ice -20c
- 3 stage car battery protection
- Quiet operation <45db
- Energy saving (Max and Eco modes)
- 3 year compressor warranty





Powacoola 55L



Powacoola 35L

CODE	DESCRIPTION	WEIGHT (g)	RRP (incl. VAT)
PP018	Powacoola 35L Fridge	17500	£699.99
PP019	Powacoola 55L Fridge	19000	£799.99
PP023	Powacoola Fridge Battery	1070	£164.99

LUXX

The Luxx is a compact, handy and bright light that comes with a small neat remote that can be used up to 10m away with a selection of 7 different colours straight from the remote. Fully waterproof (IP65) design means it's ideal for outdoor use and comes with a handy carabiner attachment. The top of the LUXX is a diffuser dome, which helps to spread light evenly and create a more omnidirectional light source. LUXX has a built-in rechargeable Lithium ION battery that's easily and quickly recharged via USB.

- IP65 water resistant
- Carabiner hook
- Frosted hood that ensures optimal distribution of light
- Rechargeable lithium ION battery
- 150 Lumen RGB LED Light
- 7 different colours



ULTRALITE

Are you tired of heavy bulky head torches that bob around on a run or slip down your face, and uncomfortable straps that are too tight and give you a headache? If so, you are going to love the new lightweight Powapacs Ultralite head torch with an adjustable strap and high brightness XPE LED lights. It is ideal for running, hiking, camping, reading and fishing. The motion sensor allows the lamp to be turned on or off by waving a hand across the lamp. Suitable for running with an adjustable ergonomically designed elastic headband, resulting in a secure yet comfortable fit.

- Super bright COB LED
- Green and Red COB light
- 5 Light modes
- Maximum brightness 450 lumens
- Motion sensor activation
- High Capacity Lithium battery
- USB rechargeable with lead provided
- Burn time 2.5 hours (max 450lm)
- Light weight (60gm)
- IPX5
- Cap clip and case included



CODE	DESCRIPTION	WEIGHT (g)	RRP (incl. VAT)
PP005	Luxx	206	£29.99
PP013	Ultralite	150	£39.99

POWALITE+

The Powalite+ is a hands-free lamp with a choice of red or white light for your bivvy or tent. It has a small PIR sensor at the front, so that the lamp will turn on as soon as it detects movement. This motion-activated security light has a number of uses, whether you're looking to enhance security or add extra safety to dark areas. It fits just about anywhere using the handy magnetic strip supplied and provides up to 100 lumens of bright LED light. The Powalite+ comes with a neat carry case and charging cable.

- Burning time up to 250 hours
- Red or white colour light plus SOS setting
- Built-in rechargeable lithium battery
- 100 Lumen
- Magnetic strip and hooking point
- Waterproof neoprene case



MOTION
ACTIVATED

POWALITE XL

The Powalite XL is one of the brightest lamps of its kind with up to 350 lumens on its brightest setting. Not only is it a lamp, but it also has a power bank function with 5200 mAh, enough to charge your phone or headlight. It is also supplied with a remote control that allows you to adjust the colour and brightness of the LED.

- Red or white light with 3 brightness settings
- Up to 350 Lumen
- Waterproof IP68 for dives up to 7 metres
- Burning time approx 72 hours on 1 charge
- Smart Quick charge power bank function
- Shock proof
- Charging time 4 hours



CODE	DESCRIPTION	WEIGHT (g)	RRP (incl. VAT)
PP006	Powalite +	333	£49.99
PP007	Powalite XL	302	£54.99

12" DVB TV

The new Powapacs 12" DVB TV has a screen that is not only bigger than other portable TVs, it's also one of the clearest. The Powapacs TV boasts a 1280 x 600 HD resolution and a DVB-T-T2 compliant system. With that, you can binge-watch ATV, digital, and analog formats. The TV can support a variety of video and audio formats like MOV, MKV, WMV, MP4, RMVB, and more. It has a VGA interface that supports SD cards and other computer equipment. One of the most outstanding features is its capacity to accept HDMI. This allows users to plug in compatible airplay dongles such as Google Chrome cast and Miracast devices and to stream content from compatible phones and tablets. The Powapacs 12" DVB TV is a wise-buy, especially if you're travelling, and comes with a 110V-240V adapter. This means that you can enjoy pre-saved movies and shows anywhere you go. If you are travelling, you can record TV shows and watch them later. It is equipped with a remote control for added convenience so you can place it in your tent, bivvy or RV and relax as you watch your favourite must-have TV.

- 1280 x 600 HD resolution
- DVB-T-T2 compliant system
- Supported video/audio formats: MOV, MKV, WMV, MP4, RMVB, and more
- VGA interface to support SD cards
- HDMI compatible
- Comes with a 110V-240V adapter and a remote control



TV BOOSTER

The Powapacs DVB-T booster is designed specifically to improve digital reception. With a standard coaxial connection, it is suitable for most portable televisions. It is small, compact and lightweight, and perfect for portable TVs. Its magnetic base attaches to large metal objects, using their surface area to enhance reception. Capable of receiving frequencies of VHF 170-230MHz and UHF470-860MHz, it is ideal for both DVB-T and DAB broadcasting.



- Designed for High Definition digital reception
- Compact and lightweight
- 3M Standard coaxial cable
- Magnetic base encased in rubber to protect paintwork
- Plug & Play Active Aerial – 5v Power Required.
- Ideal for use with all Freeview ready devices.
- Very High Gain



CODE	DESCRIPTION	WEIGHT (g)	RRP (incl. VAT)
PP021	12" DVB TV	720	£179.99
PP012	TV Booster Aerial	222	£18.99

DAB+PRO v2

The DAB+Pro v2 is a small yet perfectly formed DAB+ and FM radio, ideal for use at home and on the go. It features an easy-to-read LCD display and the ability to preset 30 radio stations, which are simple to set up and programme.. Lightweight at only 0.33kg, it can be easily carried around the home and fits conveniently on a counter, shelf, or tabletop. There is a 3.5mm jack so you can plug in your headphones for personal listening without disturbing others, (earphones not included).

DAB+Pro v2 provides superior sound quality and a wider choice of channels, and the 30 presets mean you can save your favourite stations for instant access. The unit comes complete with a USB-C lead for hassle-free charging from any compatible port such as a PC or phone charger.

- DAB & FM Radio System (30 DAB + 30 FM Preset Stations)
- 12/24 Hour clock display and calendar
- Automatic time update via FM-RDS or DAB
- AMS function (Automatic Memory System)
- Electronic Volume Control (16 levels)
- DAB /DAB+ receiver the frequency range of DAB band III: 174.0MHz-240.0MHz
- FM receiver the frequency range of FM: 87.5-108.0 MHz
- Support auto local searching
- Support RDS function
- Stereo output
- Wireless Bluetooth V5.0
- Clock/Alarm timer/Snooze
- Multi-language OSD
- Built-in 2000ma lithium battery, about up to 8 hours playing and charging time about 3 hours
- TYPE-C DC input 5V



POWAPPOINT

The PowaPoint hook sharpening kit has been designed for compact, portable, precision hook sharpening. Using an anti-vibration brass shaft that helps to minimise noise and vibration it sits comfortably in your hand giving quick, no hassle, on-the-go sharpening. Knurled sides ensure easy handling in all conditions whether it's a quick retouch between casts or when using a new hook. PowaPoint can be used anywhere and anytime due to its small compact size. PowaPoint is USB rechargeable ensuring no need for extra batteries. With up to 6 hours of run time on one charge PowaPoint allows days of continuous sharpening on one charge. The PowaPoint comes with a small LED magnifying glass allowing you to hone the hook precisely, giving a surgical point with ease.

- 2 Speed rotary diamond bit
- Low 6000 RPM
- High 7500 RPM
- Detachable diamond bit
- USB rechargeable
- LED charge indicator
- LED magnifying glass
- USB cable
- Carry case



Case included



CODE	DESCRIPTION	WEIGHT (g)	RRP (incl. VAT)
PP011	DAB+ Pro Radio	190	£55.99
PP014	PowaPoint	382	£54.99

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