

POWervamp[®]

ADVANCED POWER SOLUTIONS

Lease and Rental Services



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World leaders in advanced power solutions

With a background of more than 25 years in the manufacture and supply of ground power systems for the aviation industry worldwide, Powervamp has steadily developed its lease and rental service business to become one of the most widely recognised suppliers of this specialised support service.

Powervamp product quality and customer support is unmatched by any other service on the market, and has been the key to the growth of the company, with repeat business confirming the success.

The Powervamp rental fleet includes a dedicated stock of its own modern, silent, solid-state 28V DC power supplies, 115V 400 Hz AC 45 - 90 kVA frequency converters, TRUs, diesel hybrid power units and air-conditioning units, all of which are available for short and long-term rental contracts.

DC Power Supplies

Powervamp, with its range of power supplies from 30 to 300 amps, manufactures units for all types of aircraft from the Cessna 175 to the largest DC aircraft such as the ATR, Embraer 145, Q400 and Saab 340.

The Powervamp DC power supply units can be connected directly to the aircraft's external ground power receptacle and are primarily for regional airline operators of turbine and turboprop DC aircraft or MROs requiring continuous power for maintenance. The PS300 DC power supply has also been used to power large DC aircraft at various airshows.

PS100
DC Power Supply



PS300
DC Power Supply

- ✓ Solid state voltmeter
- ✓ Solid state ammeter
- ✓ Lightweight aluminium case with handle
- ✓ Short circuit / current limit protection



AC 400Hz Ground Power

In the pressured front line operating environment of airports, the PV90-3 is a converter that does not require the support of trained technicians.

Powervamp's PV90-3 is designed to be a zero downtime GPU requiring a minimum of planned maintenance. With all power stage components in a single pull-out module – replaceable in minutes – downtime and fault finding are no longer a problem.

As a manufacturer and exclusive provider of ground power at major air shows, Powervamp's engineers have been uniquely placed to operate the company's converters on all the world's latest generation aircraft.

Gaining unrivalled data and experience while working alongside the airframe manufacturers' test and field engineers has influenced the design of its latest 45kVA and 90 kVA ground power units.



PV90-3
90kVA Mobile Electrical Ground Power



PV45
45kVA Mobile Electrical Ground Power Unit

- ✓ 45kVA or 90kVA output
- ✓ IP65 all weather controls
- ✓ Large LCD tactile display
- ✓ 12 pulse input rectifier
- ✓ Line drop compensation
- ✓ Tactile keyboard with secret legend
- ✓ IP55 enclosure



DC Battery Ramp Carts

The award-winning Coolspool range of 28V DC battery ramp carts are a cost saving, environmentally-friendly alternative to diesel GPUs.

Where no AC power is present or noise curfews prohibit use of diesel GPUs, they are a highly efficient, low cost power source – operating at a fraction of the cost of a diesel GPU, yet able to deliver the same power and turbine starting output.

Its zero carbon footprint and noiseless operation also benefit operators with its environmental and marketing advantages, while its total silence significantly improves the working conditions of ramp personnel through the absence of fatiguing noise.

The simplicity of operation and lack of maintenance makes the Coolspool 410 ideal for use at smaller airports, where gate agents or airline personnel often perform multiple tasks.

- ✓ High powered sealed lead acid AGM batteries
- ✓ Cleared for air transportation
- ✓ Solid state voltmeter/ammeter
- ✓ Heavy-duty output isolator
- ✓ Aircraft cable with heavy-duty Nato connector
- ✓ Pneumatic tyres
- ✓ Engine start counter



Coolspool 410
28V Battery Ramp Cart



Coolspool 260
28V Battery Ramp Cart



Air-Conditioning

Powervamp is highly unusual in owning its own large fleet of 3 tonne air-conditioning units. This allows the company the option to ship by sea freight without the client having to absorb part of the extended rental period of a sea journey or the added premium of airfreight as charged by some organisations, hereby reducing costs to the client.

The MOB-42-HP offers all-in-one services for air conditioning, area cooling, dehumidifying or portable heating needs. The MobileCool MOB-42-HP is a completely self-contained and portable cooler that can provide 42,000 BTU/h of cooling and 6-17kW of heating.

The unit is UL listed for outdoor use and runs on 230V single phase power. The MOB-42-HP is designed for commercial and construction applications, and even tented events. The Conditioners are completely self contained and are serviced and maintained by Powervamp engineers to ensure they are always ready for despatch.



Portable Fuelling

The Portapump unit is a rugged, all-weather fuel pump designed for the rapid fuelling or defuelling of all types of aircraft or vehicles using jet A1 or diesel with a flash point above 37°C.

It is designed to be easily transported by aircraft, helicopter or vehicle. Able to be carried by one person, it uses a powerful 24-28V DC motor direct coupled to a high-speed pump with phosphor bronze sliding vanes.

The power source can be any 24-28V supply such as a portable GPU, vehicle battery or aircraft DC bus. Alternatively a 110/220 V domestic power supply can be used with a DC voltage converter.



Cabling

Customers will benefit from Powervamp's own extensive supply of cabling and switch gear. All Equipment is compatible with one type of 3-phase input voltage for simplicity and ease of operation.

Cabling and switch gear is usually pre-matched at the factory before dispatch to save time during hook-up, ensuring our clients receive power to their aircraft sooner.

Powervamp can ship this directly from stock to ensure equipment arrives at the location without the need to source ancillary items locally.





Airshow Support

The Powervamp airshow support division is one of the most dynamic parts within the company, offering an unparalleled international service. The division is made up of service engineers, production operatives and graduates and takes to each airshow a massive collective 'pool' of experience and product knowledge to deal with even the most unexpected of situations that can arise when under pressure.

With the extensive range of AC 400Hz GPU's, DC units, coolers and cabling, as specified throughout the brochure. Powervamp are able to deliver a rapid off-the-shelf service, supported by full-time engineers and an experienced logistics team to many airshows throughout the world including Paris, Singapore, America, Canada and India to name but a few.

The team are experienced enough to operate in situations that could be stressful to the uninitiated however as back up equipment is always shipped to the venue and is held on site for immediate 'swap-out' in case a failure occurs.

As Powervamp designs and manufactures its own equipment its on-site team are able to diagnose and fix any problem in less time than it takes to deliver and connect a replacement unit.

Product Support

Product support and customer service are the core capabilities of the servicing operation. Skilled engineers can handle service and maintenance across the entire range.

To ensure that its service engineers have all the skills needed for any eventuality, Powervamp runs a comprehensive induction and training programme.

New recruits are required to spend time on Powervamp's assembly line in order to gain knowledge of product assembly. Staff are also trained extensively in servicing, and repairing, prior to working in the field.

Our team of specialised engineers cover the UK and abroad, but also have managed to touch nearly all corners of the world for example, Europe, Asia and North America. Due to the high level of military and airside clearances our service team are able to work in sensitive environments.



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