

Powervamp™

Airshow and Aviation Ground Support Service



Powervamp's Airshow and Aviation Ground Support Service

- Turnkey project management
- Engineering support services
- 28v DC / 115v AC GPUs
- Air conditioning and spot cooling
- Static area cabling / electrical installations
- Static area security
- Aircraft valeting
- Crew transport
- Specialist services

A proven pedigree

With a background of more than 16 years in the manufacture and supply of ground power systems for the aviation industry worldwide, Powervamp Ltd has steadily developed its airshow and ground support rental business to become one of the most widely recognised suppliers of this specialised support service. The company is ISO9001:2002 accredited.

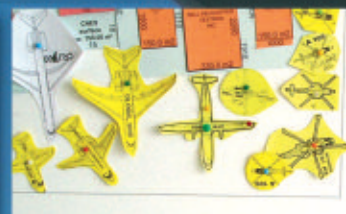
In the early 1990s, Powervamp pioneered the concept of using remote generator power at airshows to operate its unique 28 volt DC electrical TRU units within the static display area. This removed the problems of GPU noise and exhaust pollution, and proved a breakthrough for aircraft exhibitors. The concept swiftly developed into the present practice of using all-electric power for 115v AC 400Hz and DC powered aircraft at static displays.

Project management

Powervamp's comprehensive airshow support services range from the supply of 28v DC and 115v 400Hz ground power and air coolers to full project management of the static area, including aircraft positioning, cleaning and many other specialist services



Static area project management





Within Europe it is usually easier and less expensive to deliver door-to-door by our own transport

28v DC and 115v AC GPUs

Powervamp owns most of its equipment, which it renews on a frequent basis. This includes a dedicated stock of its own modern, silent, solid-state 28v DC power supplies, offering from 25 to 400 amps continuous power, and a large number of 115 volt AC 40–120 Kva frequency converters.



Proven ground power equipment – installed and supported by the manufacturer



At major airshows, such as Farnborough and Paris, where ramp space is limited, and where military and civil aircraft are part of the daily air display, diesel GPUs are still required so the aircraft personnel can perform preflight checks and ground starts from the airside despatch area.

Other occasions demanding the use of diesel GPUs include visiting VIP aircraft which may need to be parked discreetly away from public view.

Powervamp equipment is in daily revenue service worldwide



The CoolSpool 350



The CoolSpool 58



Remotely parked VIP aircraft necessitate the use of diesel GPUs

Static area cabling and electrical installations

Exhibitors also benefit from Powervamp's own extensive supply of cabling and switch gear (approximately 10 tonnes). All equipment is compatible with one type of 3-phase input voltage for simplicity and ease of operation. Because cabling and switch gear is usually pre-matched at the

factory before despatch, hook-up time is saved and clients receive power to their aircraft sooner.

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



Cabling, switch gear, cable trunking, junction boxes, power supplies and GPUs

Specialist engineering services

Because it employs a full-time team of skilled staff, Powervamp is well placed to provide specialist support services to airframe manufacturers and exhibitors.

Mockup assembly

Typical of these services is the delicate build up and disassembly of the airframe, including all internal electrical connections. Usually Powervamp will appoint a dedicated team leader to liaise with the manufacturer at an early stage and thereby ensure continuity and peace of mind as the mockup is shipped to various international events.



Skilled engineering staff



Air conditioning and spot cooling

Powervamp is highly unusual in owning its own large fleet of 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, thereby reducing costs to the client.

At major air shows (and other large events) where all or part of Powervamp's spot cooler fleet is already under contract, the company has a reciprocal loan agreement with a major spot cooler supplier thereby ensuring that it always has at its disposal sufficient 1, 3 and 5 tonne units to satisfy its requirements.



Correct power calculations

Knowing the correct Kva static area requirement is critical. Powervamp will calculate your total power needs and can complete any organiser power requirement forms on your behalf. Accurate calculations will minimise your expenditure while ensuring that the risk of a major problem on show opening day – caused by under specifying the power and the tripping of circuit breakers – is eliminated.

Back-up equipment is always shipped to the venue and is held on site for immediate 'swap-out' in case a failure occurs. However, because Powervamp designs, manufactures, owns and operates most of its equipment, its on-site team is usually able to quickly diagnose and fix the problem in less time than it takes to deliver and connect a replacement unit.



Spot cooler and 115v 400Hz solid state converter



Boeing 777 power hook-up



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Technical performance and specifications are typical and may vary. Powervamp Ltd reserves the right to alter or amend specifications without notice as part of its programme of continuous improvement.

Specialist services

Catering and ancillary services

Through its global network of distributors within the aviation industry, Powervamp has a broad range of contacts worldwide.

While many manufacturers have their own 'approved' fixed base operator (FBO) in major airports, occasionally a short sales tour or special aircraft delivery will require additional support services not readily available from an FBO.

The FBO may not have the resources to become involved in non-engineering matters. At times such as these, Powervamp can usually assist.

Some of the ways in which we have helped our clients include: the organisation of locally-sourced catering to an agreed budget; security; taxis; acting as the focal point in the overall coordination of the project.

Cleaning

Some years ago Powervamp was asked by airframe exhibitors seeking savings on rising aircraft cleaning costs to quote for this service. With Powervamp's team already on site and staff and shipping costs already covered, the cost savings to the client were obvious.

Since then, the company has invested in staff training, purchased specialised equipment and, using approved cleaning materials, has been frequently praised for its attention to detail and performance.

All Powervamp staff on site are briefed to assist the client where possible even if it is not their assigned job. The result is that Powervamp clients have the peace of mind of knowing that a dedicated Powervamp employee is always on site – discreetly in the background throughout the show.



Crew transport



VIP food: prepared and served to a client's set budget



VIP aircraft handover ceremony: local rental of all materials, on-site coordination by Powervamp local agent



Typical twice-daily cabin refresher



Special carpet deep clean

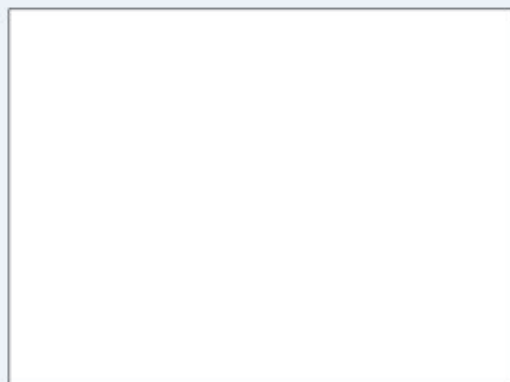
Powervamp

Based in the UK, Powervamp Ltd has built its highly successful business on a synergy of products and services that between them provide the financial strength through versatility that is the key to a successful and expanding business.

Powervamp is a major contractor to the British Ministry of Defence with sole responsibility for the engineering support on more than 140 diesel GPUs. It holds long-term maintenance contracts with North Sea helicopter operators and supplies regional airlines and fixed-wing and helicopter operators with a range of its own specialist Powercards and 115v AC 400Hz converters.

In addition to selling its aviation products in more than 55 countries, Powervamp designs and builds a range of specialised DC products for the automotive market, supplying car, bus, truck and plant operators within the UK and worldwide through a separate distributor network.

Although each area of the business is operated as a separate division with its own manager, the Airshow Division is uniquely positioned to bring in resources and staff with air show and electrical experience from across the company, depending on the size of the airshow contract and number of aircraft being supported.



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