GPUs
DC PORTABLE GPUs
12V 24V 28V

ALL POWERVAMP PORTABLE GPUs ARE CLEARED FOR AIR TRANSPORTATION

THE RANGE IS DESIGNED TO COVER ALL TYPES OF GROUND AND FLIGHT OPERATIONS

Coolspool 17: MD500 pre-flight and turbine start

SELECTING THE CORRECT GPU

Selecting the correct model of GPU for starting turbines and with sufficient power for pre-flight checks is essential for good turbine starting performance and long product life.

The following checklist will assist in the correct GPU selection. Powervamp's technical support department or appointed distributors will be pleased to offer advice.

- **Is the pack for emergency use only?**
  A GPU with minimum capacity may be sufficient.

- **Will the pack be carried on board?**
  Beware of reducing weight at the cost of performance.

- **Will the GPU be used for programming/pre-flight checks before spool-up?**
  Allow additional amp/hr capacity to ensure a cool start.

- **Will the GPU be used as the main ramp/hangar GPU on multiple operations?**
  Extend GPU life with extra amp/hr capacity. Consider Coolspool ramp cart range on page 12 for better long-term value.

- **Is the GPU required for regular compressor washing?**
  Expect premature battery replacement if using a small pack – we strongly recommend the Coolspool battery cart range (see page 12).

- **Will the GPU be used for regular avionics or maintenance work?**
  Batteries are not designed for the continuous powering of avionics. Consider a GPU with internal power supply or Coolspool cart or power supply connected in parallel.

- **What are the aircraft or FADEC upper/lower voltage limits? (Coolspool carts only)**
  Select correct Coolspool cart with 26 or 28 volt nominal output (see p. 12).

- **Is continuous power required for maintenance or training?**
  Use a GPU with internal power supply or use power supply in parallel to prevent premature battery replacement.

- **How many engine starts are required before the GPU can be re-charged?**
  Remember: starts require amp/hr capacity to maintain volts. More starts require more amp/hr capacity and more weight and therefore larger size. Consider twin packs or Coolspool cart.

- **Is engine free turbine or shaft turbine/turboprop?**
  Longer spool-up times of shaft turbines will require more amp/hr capacity.

Disclaimer

The information and data within this brochure regarding pack size, performance and engine models is given in good faith as a guide only. The company accepts no responsibility for errors and omissions.

Selecting any portable GPU is not an exact science. It is a compromise between weight, size, necessary performance, recharge time, battery life and price. It should be noted that the life of the GPU is dependent on the level of discharge each time the GPU is used. The deeper the discharge, then the sooner will be the time when batteries need replacing. Where possible it is always preferable and more cost effective to buy a GPU with the maximum amp/hr capacity.