



Coolspool 130 Specials: ongoing military contract

Unlike a diesel GPU, Coolspool battery carts are simply connected to a charger at the end of the day. Annual savings in fuel and maintenance are typically between \$40,000 and \$300,000 dollars compared with a diesel GPU running daily. There are no diesel costs, no exhaust, no noise, no pollution – and no maintenance.

Direct cost comparisons between a diesel GPU and a Coolspool show savings enabling many operators to amortise the Coolspool GPU in less than 6 months while benefiting from the favourable public and corporate publicity of using environment-friendly equipment.

The modular design of the advanced technology battery pack allows rapid swap-out if necessary. Batteries are sealed, maintenance-free and cleared for air transportation. Able to be used by personnel with the minimum of technical knowledge, Coolspool GPUs are easy to operate and repair.

The Coolspool battery cart range is perfect for remote operations, ramp/hangar duty or regular line operations. Unlike diesel GPUs which need regular maintenance, the Coolspool carts need only a single or 3-phase mains connection for their charger – depending on charge time.

For operators with multiple DC aircraft movements requiring several Coolspool carts, Powervamp supplies a remote multi-charge station which allows several battery carts to be simultaneously re-charged. Because the special cells have no memory effect, carts not in use can be recharged at any time.

GENERAL SPECIFICATION

The Coolspool battery cart range is supplied to the following specification:

Amp/hr capacity	From 130 amp/hr to 580 amp/hr (see data sheet for specific battery characteristics based on user requirements)
Nominal voltage	28.5 volts
Optional nominal cart voltage	26 volts (for use on aircraft maximum upper voltage limit below 30 volts)
Max starting current (peak amps)	from 1200 to 6000 amps – capped at 2500 amps via cable resistance
Cell type	High power, high performance sealed, starved electrolyte or VRLA gas recombining lead-acid cells connected in series to deliver 28V. All cleared for air transportation
Leads	4-metre (13ft) heavy-duty double-insulated 75mm (3in) section output cable with heavy-duty rubber Nato plug
Charging	80 amp single phase internal/external charger or 240 amp 3-phase external charger

FEATURES*

*Features vary according to model

Simple controls

- Heavy-duty push/pull (emergency) isolator switch

Full monitoring

- Digital voltmeter for GPU output voltage display
- Charge ammeter indicating charger output
- LED counter with start monitoring and interlock protection circuit (patent applied for)

All-weather operation

- Cold weather protection/anti-cold soak insulation

Rough terrain chassis

- Elastomeric rear suspension
- Bolt-on replaceable front axle assembly
- Bolt-on side protection bars
- Bolt-on mudguards
- Removable rear control panel module

General

- Paint finish – powder-coat yellow
- Replaceable alloy corrosion-proof panels
- Spare wheel (side mounted)
- Foot operated parking brake
- Fire extinguisher (supplied only if shipped by road due to air transport regulations)
- 12 months warranty against faulty parts or labour (batteries are on a proportional warranty based on usage over time)

RANGE OPTIONS

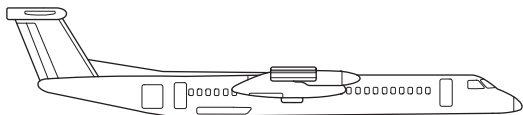
Model	Height	Dimensions*		Weight	Integral power supply	Capacity (amp/hrs)	Output cable lengths
		Length	Width				
Coolspool 580	950mm (37in)	1500mm (59in)	820mm (32in)	560kg (1,234lbs)	External	580	4m (13ft) standard
Coolspool 410	950mm (37in)	1500mm (59in)	820mm (32in)	477kg (1,051lbs)	External	350	4m (13ft) standard
Coolspool 260	710mm (28in)	1060mm (42in)	720mm (28½in)	270kg (594lbs)	80 amps	260	4m (13ft) standard
Coolspool 130	710mm (28in)	1060mm (42in)	720mm (28½in)	157kg (346lbs)	80 amps	130	4m (13ft) standard

*Allow an extra 100mm (3.9in) for handle during transportation

Coolspool 410



Typical power plant:* PT6C-67, TPE 331-12, RR Dart 356, RR AE3007A, PW121, PW127, PW150A, ALF 502, CF34B, BR710

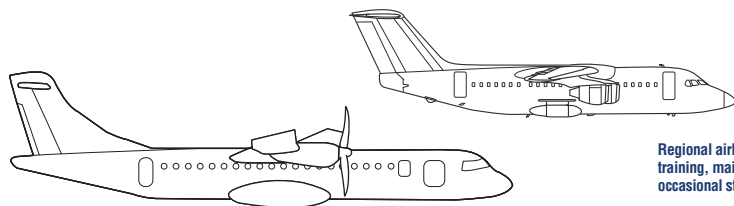


All regular line ops, 30-80 seat airline DC turboprops, Mil transports. Regional airports, FBOs, pre-flight and start

Coolspool 580



Typical power plant:* Ramp services, training, maintenance, fault-finding, cabin cleaning, occasional turbine start



Regional airlines – all DC aircraft, training, maintenance, cleaning, occasional starts

UNITS SUPPLIED AS STANDARD WITH

- Spare wheel
- Foam fire extinguisher (road shipment only)
- 4-metre (13ft) double insulated DC output cable
- Nato plug
- Frame manufactured from steel hollow section, finished in powder-coat yellow, side panels all alloy replaceable

OPTIONS

- 4-cable 70 mm (3in) section 4-metre (13ft) double-insulated output cable (for minimum voltage drop under very heavy load)

Coolspool 410: preflight and start, Q400



Coolspool 580: Q400 – supplying power during heavy maintenance

*This information is given in good faith. See disclaimer, page 2