



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 130

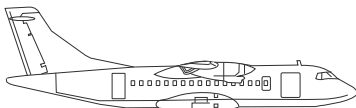


**Typical power plant:**\* PT6A-27, Makila, TPE 731, GE T700, AE3007, CF34

# Coolspool 260



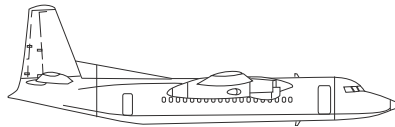
**Typical power plant:**\* PT6C-67, Makila, TPE 731, ALF 502, HTF7000, RR Tay



Drones, helicopters, turboprop twins, FBOs, medium ramp ops



FBOs, multiple heli-ops requiring heavy comp washes, training, civil and military. Ramp ops – large single shaft and 8-14 seat commuters, limited despatch or regional aircraft



## SPECIFICATIONS

28V DC Battery Cart	CoolSpool 130	CoolSpool 260	Coolspool 410	Coolspool 580
Peak amps (max starting current)	2000 amps	2500 amps	3500 amps	2800 amps
Amp hours	130 amp/hr	260 amp/hr	410 amp/hr	580 amp/hr
Max. power supply output	80	80	Separate charge	Separate charge
Continuous rating (recommended)	60	60	n/a	n/a
AC input voltage @ 220V	8 amps	16 amps	DC input from separate charger.	
AC input voltage @ 110V	16 amps	32 amps	Options: 80 amps 1-phase; 240 amps 3-phase	
Dimensions Length	1060mm (42in)	1060mm (42in)	1630mm (64in)	1500mm (59in)
Height	720mm (28½in)	720mm (28½in)	920mm (36in)	820mm (32in)
Width	710mm (28in)	710mm (28in)	750mm (29½in)	950mm (37in)
Weight	157kg (346lbs)	270kg (594lbs)	477kg (1,051lbs)	560kg (1,234lbs)
Batteries – 28V	4 x 6V, 1 x 4V	8 x 6V, 2 x 4V	14 x 2V	14 x 2V
26V	3 x 6V, 2 x 4V	6 x 6V, 2 x 4V	13 x 2V	13 x 2V
Control panel:	Digital voltmeter, digital ammeter, On/Off power knob			
Charge input plug: CS130, CS260	Single phase 16 amps @240 volts mains input	Single phase	S350 polarised DC accepts single- or 3-phase charger	
ON/OFF emergency isolator:	Heavy-duty double pole push/pull switch with red mushroom knob			
Accessory socket:	28V DC accessory socket, fused @ 10 amps, suitable for worklight, DC			
Power cells:	5 x 130 amp/hr series connected starved electrolyte gas recombining cells. Cells cleared for air transportation Correctly protected in accordance with ICAO regulations			
Tyres:	4 x 260mm (10.5in) pneumatic		4 x 400mm (16in) pneumatic	
Integral power supply charging system:	110/220V AC selectable single-phase switch mode powersupply/charger. Regulated to 31.2 volts DC. Units comprise 2 x 20 amp TEFC independent switch-mode modules paralleled for reliability. Short circuit protected, current overload protection			
NCAGE:	KD628			



*Coolspool 260: First flight of the day, 90 amps for 45 minutes. 1850 amps starting peak*

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