

# GPU 1500/40



**Typical power plant:\* TFE 331, PT6-27, Arriel**



**Small turboprop, free turbine engines**

The 1500/40 was originally developed for the Brazilian air force in 2001 in response to the need to replace their existing portable GPUs. Specification required a hand-portable GPU, able to start medium-size helicopters and air force PT6 turbine EMB110 Bandeirante aircraft.

The GPU incorporates an internal 40 amp continuous 28 volt DC output using split 20 amp power supplies for redundancy. The modular design allows easy swap out and field servicing. Input voltage is selectable 110/230 volts 50/60Hz. Packs can be paralleled to double continuous output and amp/hr capacity (model 3000/80).

With Brazil operating more than 100 units, Canadian forces more than 60 units and with multiple units in operation with many armed forces and civil operators, the 1500/40 is recognised worldwide for its versatility and performance. Thousands of 1500/40 GPUs power the helicopters of SAR, HEMS, off-shore operators and the airborne law enforcement helicopters.



GPU 1500/40: Swearingen Metroliner with Garrett TPE331 turbines, Trinidad

## SPECIFICATIONS

Nominal voltage	25.4V		
Output voltage	28V (when mains input connected)		
Cell capacity	29 amp/hrs		
Peak amps (max short circuit current)	1540A		
Output amps (max)	40A		
Re-charge time (40 amp internal power supply) from 50% discharge	20 minutes		
On-board charger	2 x 20A internal power supplies		
AC input requirements	100–132V or 200–264V 45–400Hz (selectable input voltage)		
Continuous amps (max)	30A		
Efficiency	82%		
Operating temperature range	-25°C to +50°C (-13°F to +122°F)		
Cooling	Fan assisted		
Displays	Digital voltmeter Power supply output status LEDs		
Height	Length	Width	Weight
300mm (12in)	400mm (16in)	135mm (5in)	26kg (57lbs)
NATO stock number		2990-99-6117404	

## FEATURES

- 40 amp 28.5V DC continuous output (with mains input)
- Power supply LED output monitor – for load monitoring and diagnostic aid
- Solid state DC voltage display – auto mains activated with ‘push to view’ button with timed auto shut down when disconnected from mains)
- 40 amp continuous output with mains power. Split 20 amp independent power modules for redundancy backup
- 10 amp accessory socket. GPU can be re-charged via accessory port or any 24/28V DC vehicle/aircraft power source
- Can be recharged from aircraft 28 volt DC bus
- 1500/40 can be instantly coupled to a second 1500/40 GPU to double amp/hr capacity and double continuous power (model 3000/80)

## SUPPLIED WITH

- Padded protective jacket
- Mains power cord
- 2m (6ft) double insulated heavy-duty output cable with rubber Nato plug
- Set of socket keys for disassembly
- Instruction and parts manual

## OPTIONS

- Single trolley

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