

# PS100

## 28V POWER SUPPLY

The PS100 is a solid state hand-portable power supply delivering a maximum of 100 amps at a pre-set voltage of 28V DC for avionics use.

The unit can be connected directly to the aircraft's external ground power receptacle and is primarily for operators of DC business jets requiring a source of clean stable DC power for flight deck power and software updates. The front-mounted quick-disconnect output connector enables this unit to be used as a free-standing portable bench-mounted power supply when used with optional lead sets or alligator clips.

Used by civil and military operators, the PS100 is a standard product approved and offered by one of the leading US business jet manufacturers under their part number.

The PS100 is fitted with two 50A power supplies connected in parallel complete with blocking diodes to prevent the highly undesirable reverse battery outrush current that can occur on connection to the aircraft causing arcing at the external aircraft power socket. Power supply healthy LEDs are fitted to the front panel for diagnostics.

Automatic input voltage selection 90-264V AC/47-63Hz allows international use. A solid state voltmeter and ammeter displays the output voltage and current, enabling operators to monitor the current draw of avionics and other pre-flight loads. Supplied with Nato lead set, input lead and heavy-duty canvas protective jacket.

### Supplied as standard with



Input lead



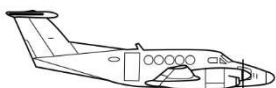
2m (6ft) Nato lead



Padded protective jacket



### Typical power plant:\*



Corporate turbo prop



Corporate jets



10-16-seat helicopters with shaft turbines

# PS100

## Specifications

Output voltage	28V DC
Output current	100A
Output ripple	<150mV p-p
Input voltage	90-264V AC/47-63Hz
Input current	16A @ 230V AC 32A @ 115V AC/single phase (typical)
Operating temp	-20°C to +50°C (-2°F to +122°F)
Case	Aluminium with shock absorbing feet
Volt/Ammeter	Solid state LED, IP65
Aircraft cable	2m (6ft) with heavy-duty rubber Nato connector
Input cable	1m (3ft)
Cooling	Forced ventilation
Protections	Thermal, current overload, short circuit, over voltage
Dimensions	L 435mm (17in) W 135mm (5in) H 340mm (13in)
Weight	11kg (24lb)
NCAGE	KD628



## Features

- Input supply on/off switch
- Power supply LED status indicators
- Short circuit/current limit protection
- Corrosion resistant aluminium case with carry handle
- Controls protected by twin front protection bars
- 2-metre aircraft cable with heavy-duty rubber Nato connector
- Harsh environment input cable
- Auxiliary socket for plug-in accessories
- Solid state voltmeter
- Solid state ammeter
- Fitted with rubber anti-slip, shock absorbent feet
- Heavy-duty canvas protective jacket

## Optional extras



## Other ground power units available from AERO Specialties



GPU 1700



GPU 2400



Coolspool 17



Coolspool 29



GPU 1500/40



PS50M



PS300



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