

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.

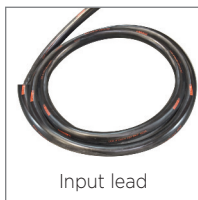
The unit can be connected directly to the aircraft's external ground power receptacle and is primarily for operators of large DC business jets requiring a source of clean stable DC power for flight deck power and software updates. The front-mounted quick-disconnect output connector enables this unit 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. An optional bandolier is available with a full set of adaptors/input supply plugs, allowing instant connection to a utility supply anywhere in the world without the need to locate and wire a local plug.

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



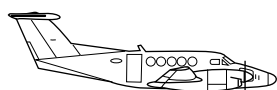
6ft Nato lead



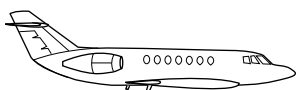
Padded protective jacket



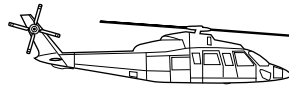
Typical power plant:*



Corporate turbo prop



Corporate jets



10-16-seat helicopters with shaft turbines

*This information is given in good faith

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
Voltmeter/Ammeter	Solid state LED, IP65
Aircraft cable	2m (6ft) with heavy-duty rubber Nato connector
Input cable	1m (3ft) with 16A 3-pin 6h blue plug
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 with plug
- 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



13ft Nato lead



Universal single trolley



Parallel joining connector



Other hand-portable GPUs and power supplies in the Powervamp range



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7190

PS300

28V DC POWER SUPPLY

The PS300 is a solid state hand-portable power supply delivering a maximum of 300 Amps for avionics use.

The unit can be connected directly to the aircraft's external ground power receptacle and is primarily for regional airline operators of turbine and turboprop DC aircraft or MROs requiring continuous power for maintenance. It can also be used to power large DC aircraft at air shows.

The PS300 is compact, lightweight and able to power air conditioning on most business jets. It can be placed under the fuselage or wing of small aircraft or helicopters, freeing up hangar floor space. The PS300 is fitted with three 100 Amps power supplies connected in parallel.

The front-mounted quick-disconnect output connector allows leads of different lengths to be instantly connected to the unit. The PS300 can be ordered for single or three phase input operation.

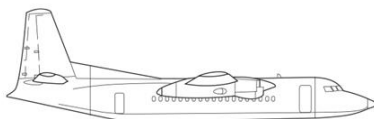
A solid state voltmeter and ammeter displays the output voltage and current, enabling operators to monitor the current draw of avionics and other pre-flight loads.



Supplied as standard with



Typical power plant *



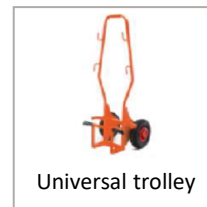
Specifications

Output Voltage	28V DC
Output Current	300 Amps max.
Output Ripple	<150mV p-p
Input Voltage 1	315 – 457 VAC / 3-ph + N + E
Input Voltage 2	180 – 264 VAC / 3-ph + E
Input Voltage 3	180 – 264 VAC / 1-ph + N + E
Input Current (max)	16A @400V 3-ph
	32A @200V 3-ph
	48A @230V 1-ph
Input Frequency	47 – 63 Hz
Load Regulation	±0.5%
Line Regulation	±0.5%
Efficiency	90%
Operating Temperature	-20°C to +50°C (-2°F to +122°F)
Relative Humidity	20 – 90%
Case	Aluminium
Voltmeter / Ammeter	Solid State LED, IP65
Aircraft Cable	4m (13ft) with heavy-duty Nato connector (other lengths available)
Input Cable	3m (10ft), optional input plug
Cooling	Forced ventilation
Protections	Thermal, current overload, short circuit, over voltage
Dimensions	L 450mm (18in) x W 295mm (11in) x H 345mm (13in)
Weight	20kg (44lbs)
NCAGE	KD628
Standards	EN 61204, EN 55032, EN 61000-6-2, EN 62368-1

Features

- 🔌 1-phase and 3-phase input supply option
- 🔌 Input supply On/Off switch
- 🔌 Power supply LED status indicators
- 🔌 Short circuit / current limit protections
- 🔌 Emergency stop push-button
- 🔌 Corrosion resistant aluminium case with handles
- 🔌 Replaceable/washable air filters allows outdoor use
- 🔌 Harsh environment input cable with plug
- 🔌 Solid state voltmeter and ammeter
- 🔌 Rubber anti-slip, shock absorbent feet
- 🔌 Heavy-duty canvas protective jacket

Optional extras



PS300: In operation on a Dornier 328

Other ground power units available from AERO Specialties



12/24 GA Pack



GPU 2400



Coolspool 29



Coolspool 29
Twin



PS100



Coolspool 410