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## Connection Systems



**RED BOX AVIATION**

# MODEL RBPS100 14/28V

## Portable DC power supply with continuous 100 amp output

A compact, lightweight and highly portable power unit. Designed to give continuous high quality DC power for crew training, aircraft servicing in the workshop, on the ramp or in the field. This continuous power supply is ideal for diagnostic work, pre flight checks or for continuous powering of equipment during operations, without draining the onboard aircraft batteries. There is a range of built in safety features and the units are easy to use. This switchable unit will produce a steady 14.4 or 28.8 Volts up to the fully rated output current with power factor correction.

The power supplies are multi fan cooled with inbuilt thermal management for operation up to 50°C ambient environments. The safety features include over current and short circuit protection. The power modules conform to EMC standards for noise emissions and immunity. Delivered as standard this unit is supplied with a 2m heavy duty lead, fitted with a 3 pin NATO connector for direct aircraft connection. Other connectors including vehicle connectors are available.

### FEATURES

- Direct connection to aircraft or land vehicle
- Aircraft cable available from 2m to 6m
- Rugged lightweight aluminium case
- RCD safety protection
- Digital display with backlite - volts / amps / input status
- Multi fan cooled - temperature controlled
- Both input and output cables removable for easy stowage
- Supplied with input cable to required length
- Several options of output cable length and connections
- User switchable between 14V and 28V

### PROTECTION

- Output overload
- Over voltage / current limit
- Short circuit
- 30mA RCD
- Advanced energy saving thermal fans

### SAFETY & EMC

- Emissions: EN 55032 class A, EN 61000-3-2
- Immunity: EN 61000-4-2, EN 61000-4-3
- Safety: IEC 62368-1 (2014)

### DIGITAL DISPLAY



## RBPS100 SPECIFICATION

Output current	100 amps at above 180 VAC supply  Auto reduction to 60 amps below 180 VAC
Output voltage	14.4V or 28.8VDC  Auto 2 stage - pro mode, trimmable from 27.6 to 30 VDC
Output quality	Accuracy ± 0.15 Volts – Ripple less than ± 150m
AC input supply	95 to 264 VAC
AC input frequency	47 to 63 Hz
Phase	1Ø
Power factor	0.98/0.95
Input rating	3000VA
Operating temperature	-20°C to +50°C
IP rating	55* for use on level ground
Weight (KG)	8.6 (unit only)

## PLUG SELECTOR

UK plug selector	220VAC 16 amp standard can be reduced to 13 amp (13 amp output is reduced to 80 amp)
USA plug selector	115 VAC 15 amp NEMA 5-15 (60 amp) or 220 VAC 15 amp NEMA 6-15 (100 amp)
Other countries	Please state country when ordering



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Specification may change without notice

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