



Long Life Reliability  
does not cost the earth

## Connection Systems



RED BOX  
AVIATION

# MODEL RBPS50 14/28V

## Portable DC power supply with continuous 50 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
- Lightweight aluminum case
- IP54 protection, fan cooled
- User selectable between 14V and 28V
- Digital voltmeter / ammeter
- Removable cables for compact transportation

### PROTECTION

- Current - electronically limited
- Over voltage
- Temperature

### SAFETY & EMC

- EN 55011:2016+A11:2020
- IEC 61207-7:2018
- EMC radiated EN 55011
- EMC conducted EN 55011



### RBPS50 SPECIFICATION

Input voltage	104 to 264 VAC - single phase
Input frequency	47 to 63 Hz
Power factor	>0.98 at 115 VAC, >0.97 at 230VAC
Rated power	50 amp 1550VA
Efficiency	90%
Input connector	Neutrik Powercon IP65 3 pin locking
Voltage	14.4 or 28.8 user selectable
Current	50 amp
Ripple	< 150mV peak to peak
Output connector	Polarised Anderson connector
IP	54
Size (mm)	L 130 x W 460 x H 220
Weight (KG)	6.5
Working temperature	-30°C to +50°C
Working humidity	20 to 90% RH non - condensing

### Protection

Overload	Constant current limiting - auto recovering
Over temperature	Shut down and auto reset on cooling
Cooling	Fan



enquiries@lpa-connect.com  
+44(0) 1799 512800  
www.lpa-group.com  
www.redboxaviation.com

Light & Power House  
Shire Hill  
Saffron Walden, Essex  
CB11 3AQ, UK

Specification may change without notice

REV-03-25-2