



MODEL RBPS50 14/28V

Portable DC power supply with continuous 50 amp output

The Red Box RBPS50 is a compact, lightweight and highly portable power unit. Designed to supply reliable continuous DC power for a wide range of aviation requirements, such as crew training and aircraft servicing. The RBPS is suited for diagnostic work, pre flight checks or for continuous powering of equipment during operations, without draining the onboard aircraft batteries. 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.



FEATURES

- Direct connection to aircraft
- 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)	130 W x 460 D x 220 H
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