



REDBOX
INTERNATIONAL

RBC5000

MODEL **RBC5000** *Transformer Rectifier Units (TRU) Range*

The RBC5000 is designed to be extremely user friendly and offer excellent power to weight and size ratio. The RBC5000 is over powered; this means you can guarantee the power this unit offers. The RBC5000 provides up to 900 Amps continuously and up to 3000 Amps peak, it comes in an IP54 case and is capable of working at temperatures from -20°C to +50°C.

The RSC5000 is designed specifically for Aircraft and can easily be moved around the hanger. Other variants are available of the RSC5000 and units can be built to specification. Contact our sales or technical team for advice.

(all information is based on a standard system,
other variants are available)

FEATURES

- 400 Amp Version - 1600 Amps Peak.
- 600 Amp Version - 2000 Amps Peak.
- 900 Amp Version - 3000 Amps Peak.
- All-Weather IP54. Supplied on heavy duty castors, trailer mounted for ramp use, or static unit for installed use.
- High overload capability for engine starts.
- Low acoustic noise.
- Simple operation with analogue indication.
- Lights for machine Status.
- Illuminated panel for around the clock operation



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TECHNICAL SPECIFICATIONS

INPUT

Voltage	380 TO 460VAC, 3-Phase with or without neutral
Frequency	50Hz or 60Hz, +/- 6%
Current Harmonics	EN61000-3-12 EMC – Harmonic Limits
Power Factor	0.93
Inrush	Limited to 50 Amp
Connections	32 Amp, 10 metre, 5 core cable with BS4343 plug or Hard Wired

OUTPUT

Voltage	28.5 Volts DC
Voltage Regulation	Steady-State +/- 5%
Peak Amps RBC5400	400A Continuous 1600A Peak
Peak Amps RBC5600	600A Continuous 2000A Peak
Peak Amps RBC5900	900A Continuous 3000A Peak

PROTECTION

Input Protection	63 Amp circuit breaker with current limiting (125 Amps on the 900A version)
Thermal Overload	Thermal sensors located in main rectifier, transformer and power module.

SYSTEM

Ambient Temperature Range	-20 to +50°C
Humidity	Less than 90% non condensing
Altitude	All specifications are quoted at less than 2000m above sea level
Acoustic Noise	Typically 65dB
Efficiency	85% to 95%
EMC	EN61000-3-12 EMC – Harmonic Limits EN61000-6-2 EMC – Immunity for Industrial Environments EN61000-6-4 EMC – Emission Standards for Industrial Environments
Casing	Zinc plated steel, powder coated RAL No. BS3020.
Case Rating	IP54 EN60529 - IP Ratings for Enclosures
Metres	Analogue for output Amps and Volts
Panel	Status lights for input and output conditions, and alarms

VARIANTS

Caster Version	Size H118cm x W71cm x D110cm (400 and 600 Amps) H150cm x W70cm x D160cm (900 Amps)
Towbar	1200mm long with 50mm eye (with trailer version only)
Stationary Version	Size H118cm x W71cm x D110cm (400 and 600 Amps) H150cm x W70cm x D160cm (900 Amps)

OPTIONS

Longer Input and Output Cables
Other Variations Available on Request