



Long Life Reliability
does not cost the earth

Connection Systems

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.

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



All information is based on a standard system, other variants are available

OPTIONS

Longer input and output cables

Other variations available on request



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Specification may change without notice

REV-04-24-1

RBC5000 SPECIFICATION

INPUT

Voltage	380 to 460VAC 3-phase with or without neutral
Frequency	50 Hz or 60 Hz, + / - 6%
Current harmonics	EN61000-3-12 EMC - harmonic limits
Power factor	0.93
Inrush	Limited to 50 amps
Connections	32 amp, 10 metre, 5 core cable with BS4343 plug or hard wired

OUTPUT

Voltage	28.5VDC
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°C 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	EN 61000-3-12- EMC - harmonic limits EN 61000-6-2 EMC - immunity for industrial environments EN 61000-6-4 EMC - emission standards for industrial environments
Casing	Zinc plated steel, powder coated RAL No. BS3020
Case rating	IP54 EN 60529 - 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 to 600 amps) H150cm x W70cm x D160cm (900 amps)
Towbar	1200mm long with 50mm eye (with trailer version only)
Stationary version	Size H188cm x W71cm x D110cm (400 and 600 amps) H150cm x W70cm x D160cm (900 amps)



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