HBC1K SERIES

AC/ DC Power Supply High Voltage Output: 1000 Watts





Features

- Designed for high voltage output 24 ~ 250vdc
- Rugged design for on-board train applications
- Fully isolated input output 4300VDC
- Over voltage protection
- Overload and short circuit protection
- MTBF > 160,000hrs
- Specials input / output combinations on request.
- Suitable for battery charging applications Option
- N+1 Redundancy –option
- Output DC Fail alarm -option
- Suitable for Battery Charging applications

General Specifications

Input Voltage 115 / 230vac (±15%)

Selectable by internal link

Input Protection Reverse polarity protection.

Inrush current limiting

Input Fuse

Isolation Input - Output 4300vdc

Input - Chassis 2250vdc Output - Chassis 500vdc

EMI EN55022 class A

Switching Freq. 55KHz

Output voltage See table

Output Power 1000 watts

Voltage adjustment Customer specified

Redundancy Diode Optional for N+1 Applications

Regulation Line / Load : ±1%

combined 10% to 100% load

Dynamic Response 5% voltage deviation for 10% to 50% load

step with 1msec recovery

Output Ripple /Noise Typically 1% pk-pk or 0.2% rms 20MHZ BW

Output Protection Over voltage protection

Current limiting (Constant Current)

Short circuit protection Thermal protection

Efficiency Model dependent typically 85%

Operating temp. 0° C to +50° C at 100% load

Derate 2.5% per °C to 65°C

Cooling Built-in fans

Environmental Basic ruggedizing.

protection Extended ruggedizing and conformal

coating available as an option

MTBF Typically 160, 000 hrs

Indicators Optional LED

Connector Input terminal block.

Output terminal block or threaded studs

Other options on request

Dimensions 315 x 127 x 127 mm (U5512)

Weight 5.2kg

Description

The $\mbox{HBC1K}$ AC/DC Power Supply is designed for high voltage applications up to 250VDC.

This rugged, industrial quality power supply uses field proven topology. It is a mature design with an excellent track record in numerous applications. It is fan cooled by two built-in fans.

An optional built-in redundancy diode allows parallel connection to achieve higher output power or N+1 redundancy, with output DC Fail alarm.

This chassis-mount design is optimized for low component count and high efficiency. The use of components with established reliability results in high MTBF.

Options

Output Voltage Special voltage outputs

Terminals Customer specified connectors

N+1 Redundancy Output redundancy diode & Alarm

Ruggedizing Extended ruggedizing and conformal coating

available.

Remote Control Remote ON / OFF

Model	Input V	Outp V	outs A	Power W
HBC1K-125-FT	115/230VAC	125V	8.0A	1000W
HBC1K- 250-FT	115/230VAC	250V	4.0A	1000W

Other voltage options available from 24 ~ 250V.

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