

# HBC2K5 SERIES

AC/DC Power Supply: 2500 Watts



## Specifications

<b>Input Voltage</b>	230vac ( ±15% )
<b>Input Protection</b>	Reverse polarity protection. Inrush current limiting Input Fuse
<b>Isolation</b>	Input - Output 4300vdc Input - Chassis 2250vdc Output - Chassis 500vdc
<b>EMI</b>	EN55022 class A
<b>Immunity</b>	EN61000-4
<b>Switching Freq.</b>	55KHz
<b>Output voltage</b>	See table
<b>Output Power</b>	2500 watts
<b>Voltage adjustment</b>	Customer specified
<b>Redundancy Diode</b>	Optional for N+1 Applications
<b>Regulation</b>	Line / Load : ±1% combined 10% to 100% load
<b>Dynamic Response</b>	5% voltage deviation for 10% to 50% load step with 1msec recovery
<b>Output Ripple /Noise</b>	Typically 1% pk-pk or 0.2% rms 20MHZ BW
<b>Output Protection</b>	Over voltage protection Current limiting ( Constant Current ) Short circuit protection Thermal protection
<b>Efficiency</b>	Model dependent typically 85%
<b>Operating temp.</b>	0° C to +50°C at 100% load Derate 2.5% per °C to 65°C
<b>Cooling</b>	Built-in fans
<b>Environmental protection</b>	Basic ruggedizing. Extended ruggedizing and conformal coating available as an <b>option</b>
<b>MTBF</b>	Typically 160, 000 hrs
<b>Indicators</b>	Optional LED
<b>Connector</b>	Input terminal block. Output terminal block or threaded studs Other options on request
<b>Dimensions</b>	407 x 187 x 132 mm ( 3U3 )
<b>Weight</b>	7kg

## Features

- Industrial design power supply – 2500 watts
- Output voltage options 24 – 250V
- Fully isolated input – output 4300VDC
- Over voltage protection
- Overload and short circuit protection
- MTBF > 160,000hrs
- Suitable for battery charging applications - Option
- N+1 Redundancy / Parallel –option
- Output DC Fail alarm -option

## Description

The **HBC2K5** AC/DC Power Supply is part of a family of units designed for customer specified output voltage options 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

<b>Output Voltage</b>	Special voltage outputs
<b>Terminals</b>	Customer specified connectors
<b>N+1 Redundancy</b>	Output redundancy diode & Alarm
<b>Ruggedizing</b>	Extended ruggedizing and conformal coating available.
<b>Remote Control</b>	Remote ON / OFF

## Model No Example:

**HBC2K5-E/250-3U3-Sxxx** ( Output: 250V with no special options

HBC2K5	Output V / A	Mech. Package	Options
HBC2K5	24V 100A	3U3	Special P/N allocated
	28V 90A		
	48V 52A		
	56V 45A		
	110V 23A		
	125V 20A		
	250V 10A		

1. Standard Output voltage options are illustrated.
2. Any output voltage up to 250V on request.
3. Final Part no will be allocated at time of order to reflect customer specifications and options.

