**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**: 1200 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.**: 0º C to +50ºC at 100% load
  Derate 2.5% per ºC to 65ºC
- **Cooling**: Built-in fans
- **Environmental protection**: Basic ruggedizing.
  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 HBC1K2 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.

**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

**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

<table>
<thead>
<tr>
<th>Model</th>
<th>Input V</th>
<th>Outputs V</th>
<th>A</th>
<th>Power W</th>
</tr>
</thead>
<tbody>
<tr>
<td>HBC1K2-125-FT</td>
<td>115/230VAC</td>
<td>125V</td>
<td>9A</td>
<td>1200W</td>
</tr>
<tr>
<td>HBC1K2-250-FT</td>
<td>115/230VAC</td>
<td>250V</td>
<td>4.5A</td>
<td>1200W</td>
</tr>
</tbody>
</table>

- Other voltage options available from 24 ~ 250V.

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